

REGIONE PIEMONTE

PROVINCIA DI CUNEO

COMUNE DI POLONGHERA
COMUNE DI FAULE

NUOVA SCUOLA ELEMENTARE INTERCOMUNALE

PROGETTO ESECUTIVO

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RELAZIONE
SPECIALISTICA:
STRUTTURE IN C.A. -
RELAZIONE TECNICA,
FASCICOLO DI CALCOLO
PIANO DI MANUTENZIONE
DELLE OPERE
STRUTTURALI

TAV. C03 E

D17_012_C03 E

Relazione generale sull'intervento

a - Descrizione dell'intervento

L'intervento oggetto della presente relazione riguarda la realizzazione di un nuovo edificio scolastico sito in Faule - posta sul confine dei rispettivi comuni.

La scuola è strutturata per ospitare un ciclo di scuola primaria con 5 classi per un complesso di 135 bambini; a questa è accorpata, con blocco separato, una palestra di circa 200 mq lordi, che verrà realizzata in un secondo momento. L'edificio scolastico, per esigenze economiche – finanziarie legate alla normativa sul pareggio di bilanci comunali, che non dà la possibilità di utilizzare completamente le risorse finanziarie disponibili per stanziare l'importo complessivo di progetto; è stato suddiviso in due progetti, il primo che prevede la realizzazione del blocco aule e del blocco centrale di ingresso, il secondo, più piccolo, il blocco mensa con annessi locali accessori.

Le fondazioni sono realizzate a travi rovesce in c.a. con un solaio di piano terra del tipo areato ad "igloo" con funzione di interconnessione tra le travi di fondazione.

La struttura portante fuori terra prevista dal progetto è quindi costituita da:

- 1) Pilastri in c.a.;
- 2) Solaio in c.c.a. con elementi di alleggerimento in blocchi di laterizio per il piano primo (sottotetto);
- 4) Copertura in legno;
- 5) Struttura in acciaio per il percorso coperto di ingresso.

b- Normativa di riferimento

Il fabbricato viene classificato come edificio rilevante in conformità a quanto stabilito dalla Deliberazione della Giunta Regionale del 12/12/2011 n. 4-3084, per tale tipologia è stabilito l'obbligo di progettazione antisismica per edifici ricadenti in zona sismica 3, pertanto il progetto strutturale è stato condotto applicando la normativa vigente alla data di redazione del progetto definitivo, corrispondente al D.M. 14/01/2008 'Norme tecniche per le costruzioni'.

Referenze normative tecniche:

- L. 64 del 02.02.74 'Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche'.
- L. 1086 del 5.11.1971 'Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso ed a struttura metallica';
- O.P.C.M. "Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica" e successive modificazioni ed integrazioni;
- UNI EN 1992-1-1 "Eurocodice 2: Progettazione delle strutture in calcestruzzo";
- EN 1993-1-1 "Eurocode 3: Design of steel structures" (versione inglese);
- EN 1998-1 "Eurocode 8: Design of structures for earthquake resistance"(versione inglese);
- UNI EN 1995-1-1 "Eurocodice 5: Progettazione delle strutture in legno"
- C.N.R. 10011/97 "Costruzioni di Acciaio – Istruzioni per il calcolo, l'esecuzione, il collaudo e la manutenzione;

Sintesi relazione di calcolo delle strutture

1) Ipotesi di carico:

SOLAIO PIANO PRIMO (sottotetto non agibile)

peso proprio solaio (20+5)

peso proprio tramezzature	300	daN/m ²
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peso proprio pavimentazione	0	daN/m ²
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peso proprio murature tamponamento perimetrali	300	daN/m ²
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carico accidentale	100	daN/m ² di muratura
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<u>COPERTURA (legno)</u>	100	daN/m ²
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peso proprio legno

peso proprio copertura (tegole)	80	daN/m ²
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totale	60	daN/m ²
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totale+inclinazione tetto (22°)	140	
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	149.8	daN/m ²	permanente
carico accidentale			

	218	daN/m ²	accidentale neve
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2) Azione sismica:

a) Stato limite ultimo

Zona sismica: 3

Trattandosi di edificio pubblico a destinazione scolastica è stato adottato un coefficiente di protezione (o d'importanza) pari a 1,2.

Si è fatto riferimento allo spettro per lo stato limite ultimo contenuto nel D.M. 14/01/2008.

b) Stato limite di danno

Si è fatto riferimento allo spettro elastico per lo stato limite di danno contenuto nel D.M. 14/01/2008, scalato di un fattore 2.5 valori dei coefficienti sismici adottati sono i seguenti:

3) Modellazione della struttura e criteri di calcolo

La struttura è schematizzata escludendo il contributo degli elementi aventi rigidezza e resistenza trascurabili.

La struttura viene modellata con il metodo degli elementi finiti, gli elementi utilizzati sono di tipo monodimensionale (trave) e bidimensionale (gusci).

I vincoli sono considerati puntuali ed inseriti mediante le sei costanti di rigidezza elastica.

4) Modellazione dei materiali

I materiali costituenti la struttura sono considerati elastici e con comportamento lineare. Le loro caratteristiche sono specificate nella stampa dei dati di input.

5) Combinazione dei carichi

Le singole combinazioni di carico sono sovrapposte in modo da ottenere combinazioni di carico in cui sono rappresentati i massimi effetti delle sollecitazioni. Tali valori delle sollecitazioni sono utilizzati successivamente nella fase di dimensionamento e di verifica.

6) Analisi sismica

Le sollecitazioni provocate nella struttura dalle azioni sismiche vengono valutate mediante una analisi dinamica modale.

Gli effetti delle azioni sismiche sulla struttura date dalle singole forme modali vengono sommate quadraticamente e le sollecitazioni calcolate

7) Verifiche

Le verifiche di resistenza e stabilità delle sezioni vengono eseguite con riferimento al metodo agli stati limite.

8) Deformazioni

Le deformazioni dei vari elementi componenti la struttura risultano compatibili con il tipo di struttura adottato e con le infrastrutture.

DESCRIZIONE DEI CRITERI DI PROGETTAZIONE ADOTTATI

Il sistema strutturale adottato per il progetto del presente edificio è definibile come “edifici a telaio con più piani e più campate”.

Tale sistema consente di garantire un adeguato livello di rigidezza e resistenza nei confronti delle due componenti ortogonali orizzontali delle azioni sismiche di progetto.

Il sistema di fondazione è caratterizzato da un sistema di travi rovesce e cordoli opportunamente interconnessi tra loro, esso presenta pertanto una rigidezza estensionale nel piano orizzontale e di adeguata rigidezza flessionale compatibile le caratteristiche geotecniche del terreno sul quale si interfaccia e tali da garantire un comportamento non dissipativo.

La struttura adotta un comportamento di tipo dissipativo ed il progetto è stato sviluppato secondo la classe di duttilità bassa (cd B), adottando per il dimensionamento degli elementi le combinazioni di carico afferenti allo stato limite ultimo, nel rispetto del criterio di gerarchia delle resistenze.

DESCRIZIONE DELLA SCHEMATIZZAZIONE STRUTTURALE ADOTTATA

In fase di progetto la struttura (nelle sue parti principali e strutturali) e il suo comportamento di risposta alle azioni statiche e dinamiche è stato simulato e valutato nel modello tridimensionale adeguato alla valutazione della situazione reale.

Gli elementi strutturali (travi, pilastri, muratura ...) che compongono il modello di calcolo corrispondono nel modello numerico di calcolo a differenti tipologie di elementi finiti:

a) Travi e pilastri (rientrano nella presente categoria gli elementi in cui una dimensione prevale sulle altre due, vengono schematizzati come beam, il cui comportamento è definito anche mediante le modalità di connessione all'estremità. Gli elementi soggetti a solo sforzo normale possono essere trattati come elementi beam opportunamente svincolati alle estremità.

b) Le pareti, i muri, le piastre, le platee (componenti strutturali bidimensionali, con due dimensioni prevalenti sulla terza), sono stati modellati con elementi guscio a comportamento flessionale e a membrana.

I vincoli verso l'esterno vengono rappresentati (appoggio semplice, cerniere, carrelli), con elementi in grado di definire le modalità di vincolo e le rigidezze nello spazio.

Questi elementi, connessi con i suddetti, consentono di modellare i casi di interazione con il terreno (travi di fondazione, plinti, platee nonché attraverso una combinazione di essi).

Il comportamento del terreno è rappresentato mediante una schematizzazione lineare alla Winkler (viene definita una costante di risposta del suolo).

Per quanto riguarda i materiali schematizzati vengono utilizzati il modulo di Young, il coefficiente di Poisson.

Il calcolo viene condotto mediante analisi lineare.

La presenza di diaframmi orizzontali, se rigidi, nel piano viene gestita attraverso l'impostazione di un'apposita relazione fra i nodi strutturali coinvolti, che ne condiziona il movimento relativo. È stata condotta un'analisi dinamica modale lineare con adozione di spettro di risposta conforme DM 14/01 2008.

Il progetto e la verifica degli elementi è stato eseguito mediante il metodo degli stati limite (ultimo e di esercizio).

Criteri per la misura della sicurezza

Metodo di calcolo agli stati limite

Il calcolo è stato condotto secondo i dettami del metodo semiprobabilistico agli stati limite. In particolare sono stati soddisfatti i requisiti per la sicurezza allo stato limite ultimo (in presenza e non dell'azione sismica), allo stato limite di esercizio, nei confronti di eventuali azioni eccezionali. Per quanto riguarda le azioni sismiche verranno anche esaminate le deformazioni relative,

Schematizzazione delle azioni, condizioni e combinazioni di carico

Le azioni sono state schematizzate applicando i carichi previsti dalla norma. I carichi di tipo gravitazionale, derivanti dalle azioni permanenti e/o variabili, sono applicati in direzione

verticale (verso “-z” nel sistema di riferimento generale del modello). Le azioni del vento sono applicate prevalentemente nelle due direzioni orizzontali o ortogonalmente alla falda in copertura. Le azioni sismiche dinamiche, derivano dall'eccitazione delle masse assegnate alla struttura in proporzione ai carichi a cui sono associate per norma.

Descrizione modello di calcolo

Il modello è definito da nodi disposti nello spazio coerentemente con il progetto architettonico. Ogni nodo possiede sei gradi di libertà, associati alle sei possibili deformazioni. I gradi di libertà possono essere liberi (spostamenti generalizzati incogniti), bloccati (spostamenti pari a zero). Si può intervenire sui gradi di libertà bloccando uno o più gradi (con percentuale di blocco variabile da 0 a 100%).

Carichi applicati alla struttura

I carichi agenti sulla struttura vengono definiti come:

- carichi nodali (forze e coppie concentrate applicate ai nodi)
- carichi distribuiti (per unità di lunghezza e/o superficie applicati agli elementi beam o ai gusci)

I carichi applicati sono definiti nella tabella e negli schemi allegati alle pagine seguenti

Carico neve

Si riporta i seguito la determinazione del carico neve utilizzato nel calcolo.

Carico neve al suolo

Regione
Piemonte

Provincia
Cuneo

(Zona I Alpina)

Comune
Faule

Altitudine di riferimento [m] 246

Periodo di ritorno
50 anni

Carico neve al suolo qsk [kN/m²]
1.5487

Coeff. di esposizione 1.0

Coeff. termico 1.0

Casi particolari

☐ Crea relazione

kgf, cm

Cop ad una falda | Cop a due falde | Cop a più falde | Cop cilindrica

Carico neve sulla copertura [kN/m²]

$\mu_1(\alpha_1)$ qsk
1.239

0.5 $\mu_1(\alpha_1)$ qsk
.6195

$\mu_1(\alpha_1)$ qsk
1.239

senza vento

con vento

con vento

$\mu_1(\alpha_2)$ qsk
1.239

$\mu_1(\alpha_2)$ qsk
1.239

0.5 $\mu_1(\alpha_2)$ qsk
.6195

	μ	μ_1	0.5 μ_1
qe(A) [kN/m]		.634	.079
qe(B) [kN/m]		.634	.079

PRESENTAZIONE DEI RISULTATI DELL'ANALISI STRUTTURALE

Deformate

Per ogni combinazione di carico e per tutti i nodi non completamente vincolati sono determinati gli spostamenti e le rotazioni. Gli spostamenti sono positivi se diretti nel verso degli assi globali X Y Z, le rotazioni positive se antiorarie rispetto all'asse di riferimento.

Travi, pilastri e fondazione

Il programma calcola ai due nodi estremi di ogni elemento e per ogni combinazione di carico sei sollecitazioni, riferite agli assi locali (come indicato nella figura a lato):

F_x = forza assiale nella direzione locale x;

F_y = taglio nella direzione locale y;

F_z = taglio nella direzione locale z;

M_x = momento torcente attorno all'asse locale x;

M_y = momento flettente attorno all'asse locale y;

M_z = momento flettente attorno all'asse locale z,

con le seguenti convenzioni sui segni:

forze positive se concordi con gli assi locali (F);

momenti positivi se antiorari rispetto agli assi locali, per un osservatore disteso lungo il corrispondente semiasse positivo ($F \cdot L$).

Tali convenzioni sono caratteristiche dei codici di calcolo numerico e sono mantenute soltanto nelle stampe globali. Nelle rappresentazioni grafiche e nelle stampe delle verifiche di sicurezza vengono invece adottate le convenzioni tipiche della Scienza delle Costruzioni. In caso di analisi sismica con il metodo statico equivalente viene riportato un prospetto riguardante il peso sismico del gruppo, le coordinate baricentriche relative, il coefficiente di distribuzione globale del gruppo funzione della sua quota, il coefficiente globale ricavato dal precedente in base ai parametri sismici, la forza sismica relativa.

Nell'analisi dinamica vengono calcolate le medesime sollecitazioni per ognuna delle tre azioni sismiche previste (Z eventuale). Viene evidenziato il modo di vibrazione che dà luogo all'effetto massimo, il valore di tale effetto (con segno), la risultante dovuta alla combinazione di tutti i modi di vibrazione mediante il criterio prescelto dall'utente.

Per le travi di fondazione il programma calcola ai due nodi estremi della trave e in tutti i punti intermedi generati per effetto della suddivisione della trave di fondazione, per ogni combinazione di carico:

F_y = taglio nella direzione locale y (F);

M_x = momento torcente attorno asse locale x ($F \cdot L$);

M_z = momento flettente attorno asse locale z ($F \cdot L$);

U_Z = spostamento lungo Z (L);

r_X = rotazione intorno X (rad);

r_Y = rotazione intorno Y (rad);

pressione sul suolo (FIL^*).

Vincoli

Sono stati determinati, per ogni nodo vincolato, le reazioni corrispondenti ai vincoli assegnati. per il sistema di riferimento le forze vincolari (unità di misura F) sono positive se vanno nel verso dell'asse di riferimento, i momenti ($F \cdot L$) sono positivi se antiorari per un osservatore disposto lungo il corrispondente semiasse positivo.

Verifiche di sicurezza stato limite di esercizio

Le verifiche nei confronti dei stati limite di esercizio degli elementi strutturali, degli elementi non strutturali e degli impianti si effettuano rispettivamente in termini di resistenza, contenimenti del danno e di contenimento della funzionalità.

NORMATIVA DI RIFERIMENTO

L'analisi della struttura in oggetto é stata fatta utilizzando i metodi usuali della Scienza delle Costruzioni ed in conformità alle normative e leggi vigenti:

- D.M. 14/1/2008: Norme tecniche per le costruzioni e relativa circolare.

Altri riferimenti normativi:

- Legge 5/11/1971 n. 1086: Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso ed a struttura metallica.

- D.P.R. 6/6/2001 n. 380: Testo unico delle disposizioni legislative e regolamentari in materia edilizia.

- Legge 2/2/1974 n. 64: Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche.

- C.N.R. 10024/86 del 23/7/1986: Analisi di strutture mediante elaboratore: impostazione e redazione delle relazioni di calcolo

- D.M. 14/2/1992: Norme tecniche per l'esecuzione delle opere in cemento armato normale e precompresso e per le strutture metalliche.

- D.M. 9/1/1996: Norme tecniche per il calcolo, l'esecuzione ed il collaudo delle opere in cemento armato normale e precompresso e per le strutture metalliche.

- D.M. 16/1/1996: Norme tecniche relative ai criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e dei sovraccarichi.

- D.M. 16/1/1996: Norme tecniche per le costruzioni in zona sismica.

**OPERE STRUTTURALI
CARICHI E SOVRACCARICHI
OPERE INTERAGENTI CON IL TERRENO**

D. M. 14 gennaio 2008

Norme tecniche per le costruzioni

Circolare 2 febbraio 2009, n. 617

Istruzioni per l'applicazione delle "Nuove norme tecniche per le costruzioni" di cui al D.M. 14.01.2008

DEFINIZIONE DELLE CARATTERISTICHE DELLE OPERE STRUTTURALI

Prestazioni di progetto, classe della struttura, vita utile e procedure di qualità

Le prestazioni della struttura e le condizioni per la sua sicurezza sono state individuate comunemente dal progettista e dal committente. A tal fine è stata posta attenzione al tipo della struttura, al suo uso e alle possibili conseguenze di azioni anche variabili; particolare rilievo è stato dato alla sicurezza delle persone. Risulta così definito l'insieme degli stati limite riscontrabili nella vita della struttura ed è stato accertato, in fase di dimensionamento, che essi non siano superati.

Altrettanta cura è stata posta per garantire la durabilità della struttura, con la consapevolezza che tutte le prestazioni attese potranno essere adeguatamente realizzate solo mediante opportune procedure da seguire non solo in fase di progettazione, ma anche di costruzione, manutenzione e gestione dell'opera. Per quanto riguarda la durabilità si sono presi tutti gli accorgimenti utili alla conservazione delle caratteristiche fisiche e dinamiche dei materiali e delle strutture, in considerazione dell'ambiente in cui l'opera dovrà vivere e dei cicli di carico a cui sarà sottoposta. La qualità dei materiali e le dimensioni degli elementi sono coerenti con tali obiettivi.

In fase di costruzione saranno attuate severe procedure di controllo sulla qualità, in particolare per quanto riguarda materiali, componenti, lavorazione, metodi costruttivi.

Saranno seguiti tutti gli inderogabili suggerimenti previsti nelle "Norme Tecniche per le Costruzioni".

Vita nominale

Per la struttura in oggetto è stata prevista una vita nominale V_N di 50 anni, nei quali la struttura sarà utilizzata per lo scopo di progettazione, purché sia soggetta a manutenzione ordinaria.

Classe d'uso

In presenza di azioni sismiche, con riferimento alle conseguenze di una interruzione di operatività o in un eventuale collasso, la struttura è stata considerata di CLASSE III:

Costruzioni il cui uso preveda affollamenti significativi. Industrie con attività pericolose per l'ambiente. Reti viarie extraurbane non ricadenti in Classe d'uso IV. Ponti e reti ferroviarie la cui interruzione provochi situazioni di emergenza. Dighe rilevanti per le conseguenze di un loro eventuale collasso.

Periodo di riferimento per l'azione sismica

L'azione sismica di progetto viene valutata in relazione ad un periodo di riferimento V_R calcolato con la seguente relazione:

Vita nominale dell'opera $V_N = 50$ anni

Coefficiente d'uso $C_U = 1.5$

Periodo di riferimento $V_R = 75.0$

MATERIALI UTILIZZATI

Calcestruzzo per uso strutturale

Calcestruzzo		Acciaio per C.A.	Acciaio per carpenteria
Classe:	C28/35		
<input type="button" value="Copia classe"/>			
Proprietà [daN/cm ²]			
Descr.	C28/35		
R_{ck}	350		
f_{ck}	290.5		
ε_{c2}	.2 %		
ε_{cu}	.35 %		
γ_c	1.5		
α_{cc}	.85		
f_{cd}	164.6		
E_{cm}	325881		

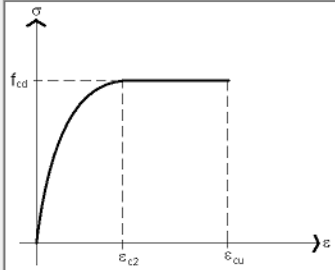


Diagramma costitutivo [4.1.2.1.2.2]

Acciaio per strutture in c.c.a.

Calcestruzzo	Acciaio per C.A.	Acciaio per carpenteria
Tipo:	B450C	
Proprietà [daN/cm ²]		
Descr.	B450C	
Stati limite		
f_{yk}	4500	
γ_s	1.15	
f_{yd}	3913	
E_s	2000000	
ε_{yd}	.2 %	
Tensioni ammissibili		
σ_{amm}	2600	

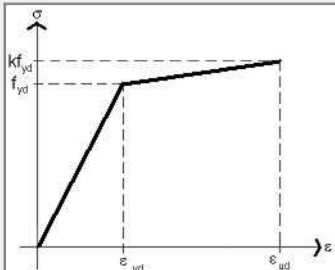


Diagramma costitutivo tipo 1 [4.1.2.1.2.3]

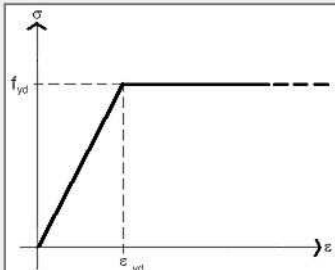


Diagramma costitutivo tipo 2 [4.1.2.1.2.3]

Definizione delle classi di durata dei carichi:

classe di durata permanente: peso proprio e i carichi non rimovibili durante il normale esercizio della struttura;

classe di lunga durata: carichi permanenti suscettibili di cambiamenti durante il normale esercizio della struttura e carichi variabili relativi a magazzini e depositi;

classe di media durata: carichi variabili degli edifici, ad eccezione di quelli relativi a magazzini e depositi; il sovraccarico da neve (c. neve al suolo q_{sk}), calcolato per lo specifico sito è considerato in relazione alle caratteristiche del sito;

classe di durata istantanea: azione del vento e le azioni eccezionali in genere.

Metodo di calcolo: analisi dinamica modale

Il programma effettua l'analisi dinamica con il metodo dello spettro di risposta.

Il sistema da analizzare è visto come un oscillatore a n gradi di libertà, di cui vanno individuati i modi propri di vibrazione. Il numero di frequenze da considerare è un dato di ingresso che l'utente deve assegnare. In generale si osservi che il numero di modi propri di vibrazione non può superare il numero di gradi di libertà del sistema.

La procedura attua l'analisi dinamica in due fasi distinte: la prima si occupa di calcolare le frequenze proprie di vibrazione, la seconda calcola spostamenti e sollecitazioni conseguenti allo spettro di risposta assegnato in input.

Nell'analisi spettrale il programma utilizza lo spettro di risposta assegnato in input, come previsto dalla normativa. L'ampiezza degli spettri di risposta è determinata dai parametri sismici previsti dalla normativa e assegnati in input dall'utente.

La procedura calcola inizialmente i coefficienti di partecipazione modale per ogni direzione del sisma e per ogni frequenza. Tali coefficienti possono essere visti come il contributo dinamico di ogni modo di vibrazione nelle direzioni assegnate. Si potrà perciò notare in quale direzione il singolo modo di vibrazione ha effetti predominanti.

Successivamente vengono calcolati, per ogni modo di vibrazione, gli spostamenti e le sollecitazioni relative a ciascuna direzione dinamica attivata, per ogni modo di vibrazione.

Per ogni direzione dinamica viene calcolato l'effetto globale, dovuto ai singoli modi di vibrazione, mediante la radice quadrata della somma dei quadrati dei singoli effetti.

L'ultima elaborazione riguarda il calcolo degli effetti complessivi, ottenuti considerando tutte le direzioni dinamiche applicate (involuppo).

Nel calcolo della risposta spettrale vengono determinate, per ogni verso del sisma, le deformazioni relative ai vari modi di vibrare e la corrispondente media quadratica. Tali risultati vengono successivamente combinati e danno luogo ad uno o più involuppi in relazione a quanto imposto dall'utente nella fase iniziale di intestazione del lavoro. I risultati dinamici considerati sono quelli ottenuti per involuppo, a seconda della modalità scelta. Si possono generare diverse combinazioni risultanti (sovrapposizione degli effetti statici e degli effetti dinamici) indicate nei tabulati con delle lettere.

Per quanto riguarda gli effetti dinamici si tenga presente che il segno degli involuppi è sempre positivo e che le norme impongono che tali risultati siano considerati anche con segno opposto.

Azioni sismiche

L'azione sismica è stata determinata ed applicata alla struttura in conformità alle disposizioni DM 14.01.2008.

CRITERI DI ANALISI DELLA SICUREZZA

Con riferimento alle normative precedentemente citate, le strutture in oggetto sono verificate per quanto riguarda:

- verifica di resistenza;
- verifica a deformazione e fessurazione.

SCHEMATIZZAZIONE DELLA STRUTTURA E DEI VINCOLI

La struttura é stata schematizzata escludendo il contributo degli elementi aventi rigidezza e resistenza trascurabili a fronte dei principali. É quindi stata considerata l'orditura a telaio tridimensionale, i solai ed i setti verticali ad elevata rigidezza (vano ascensore, setti in cls). I plinti di fondazione vengono assimilati a vincoli elastici di cui é fornita la costante di rigidezza. Le travi di fondazione sono schematizzate come poggianti su vincoli elastici distribuiti.

MODELLAZIONE DELLA STRUTTURA E DEI VINCOLI

La struttura é modellata con il metodo degli elementi finiti, applicato a sistemi tridimensionali. Gli elementi utilizzati sono sia monodimensionali (trave con eventuali sconnessioni interne), che bidimensionali (piastre e membrane triangolari e quadrangolari). I vincoli sono considerati puntuali ed inseriti tramite le sei costanti di rigidezza elastica, oppure come elementi asta poggianti su suolo elastico. Le sezioni oggetto di verifica nelle travi sono stampate a passo costante; dei gusci si conoscono le sollecitazioni nel baricentro dell'elemento stesso.

SCHEMATIZZAZIONE DELLE AZIONI

In accordo con le sopracitate normative, sono state considerate nei calcoli le seguenti azioni:

- pesi propri strutturali
- carichi permanenti portati dalla struttura
- carichi variabili sui solai, neve, vento.
- forze di piano simulanti il sisma, ricavate tramite analisi statica/dinamica
- distorsioni termiche

Le condizioni ed i casi di carico prese in conto nei calcolo sono specificate nella stampa dei dati di input.

MODELLAZIONE DEI MATERIALI

I materiali costituenti la struttura sono considerati elastici e con comportamento lineare. Le loro caratteristiche sono specificate nella stampa dei dati di input.

INDIVIDUAZIONE DEL CODICE DI CALCOLO

Per il calcolo delle sollecitazioni e per la verifica di travi e pilastri in cemento armato si é fatto ricorso all'elaboratore elettronico utilizzando il seguente programma di calcolo:

DOLMEN WIN (R), versione 13.0 del 2013, prodotto, distribuito ed assistito dalla CDM DOLMEN srl, con sede in Torino, Via Drovetti 9/F.

Questa procedura é sviluppata in ambiente Windows, ed é stata scritta utilizzando i linguaggi Fortran e C. DOLMEN WIN permette l'analisi elastica lineare di strutture tridimensionali con nodi a sei gradi di libert  utilizzando un solutore ad elementi finiti. Gli elementi considerati sono la trave, con eventuali svincoli interni o rotazione attorno al proprio asse, ed il guscio, sia rettangolare che triangolare, avente comportamento di membrana e di piastra. I carichi possono essere applicati sia ai nodi, come forze o coppie concentrate, sia sulle travi, come forze distribuite, trapezie, concentrate, come coppie e come distorsioni termiche. I vincoli sono forniti tramite le sei costanti di rigidit  elastica.

A supporto del programma é fornito un ampio manuale d'uso contenente fra l'altro una vasta serie di test di validazione sia su esempi classici di Scienza delle Costruzioni, sia su strutture particolarmente impegnative e reperibili nella bibliografia specializzata.

GRADO DI AFFIDABILIT  DEL CODICE

L' affidabilit  del codice di calcolo é garantita dall'esistenza di un' ampia documentazione di supporto, come indicato nel paragrafo precedente. La presenza di un modulo CAD per l'introduzione di dati permette la visualizzazione dettagliata degli elementi introdotti.   possibile inoltre ottenere rappresentazioni grafiche di deformate e sollecitazioni della struttura. Al termine dell'elaborazione viene inoltre valutata la qualit  della soluzione, in base all'uguaglianza del lavoro esterno e dell'energia di deformazione.

MOTIVAZIONE DELLA SCELTA DEL CODICE

DOLMEN WIN permette in campo elastico lineare un'analisi dettagliata del comportamento dell'intera struttura, tenendo conto del comportamento irrigidente di setti anche complessi e solai considerati con la loro effettiva rigidit .   possibile inoltre scegliere il grado di affinamento dell'analisi di elementi complessi utilizzando mesh via via pi  dettagliate.

ESAME DEI RISULTATI E CONTROLLI

VALUTAZIONE DELLA CORRETTEZZA DEL MODELLO

Il modello di calcolo adottato   da ritenersi appropriato in quanto non sono state riscontrate labilit , le reazioni vincolari equilibrano i carichi applicati, la simmetria di carichi e struttura d  origine a sollecitazioni simmetriche.

GIUDIZIO MOTIVATO DI ACCETTABILIT  DEI RISULTATI

L'analisi critica dei risultati e dei parametri di controllo nonch  il confronto con calcolazioni di massima eseguite manualmente porta ad confermare la validit  dei risultati.

ALLEGATI

Alla presente relazione si allegano le seguenti stampe:

- dati di ingresso;
- sollecitazioni nelle aste e nei gusci;
- reazioni vincolari;
- verifiche di resistenza di travi e pilastri;
- diagrammi di sollecitazioni e deformazioni.

FASCICOLO DI CALCOLO

DATI ANALISI SISMICA:

ANALISI DINAMICA

lavoro : \13119_

PARAMETRI DI CALCOLO:

Calcolo secondo NTC 2008

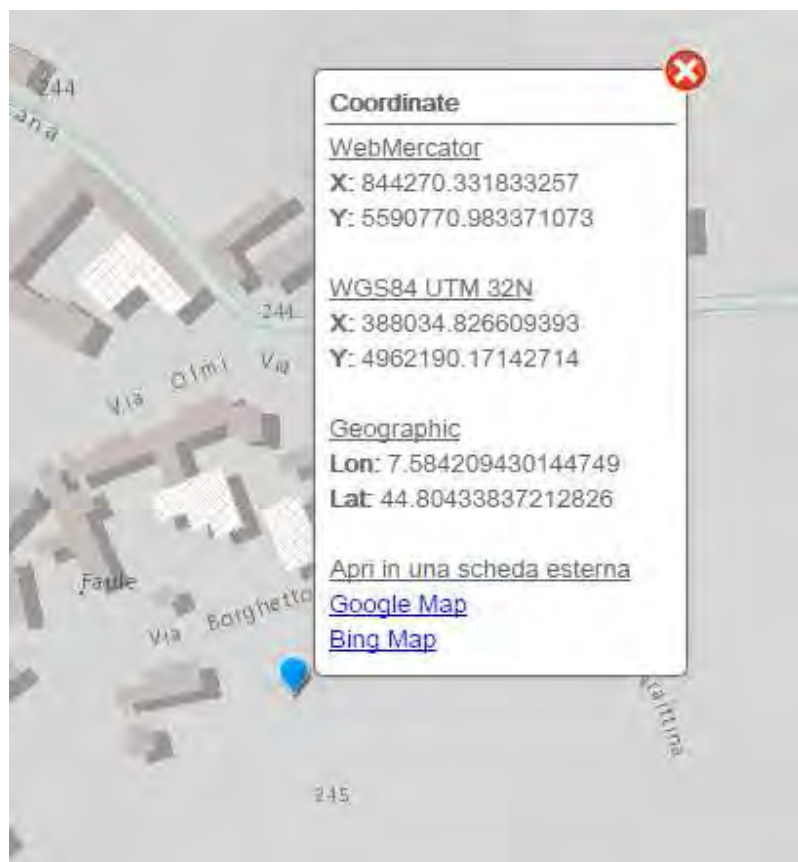
Modello generale

Assi di vibrazione: X Y

Somma quadratica semplice (SRSS)

DATI PROGETTO

Edificio sito in località FAULE (long. 7.584209430144749 lat. 44.80433837212826)



Categoria del suolo di fondazione = C

Coeff. di amplificazione stratigrafica $S_s = 1.500$

Coeff. di amplificazione topografica $S_T = 1.000$

$S = 1.500$

Vita nominale dell'opera $V_N = 50$ anni

Coefficiente d'uso $C_U = 1.5$

Periodo di riferimento $V_R = 75.0$

PVR : probabilità di superamento in $V_R = 10 \%$

Tempo di ritorno = 712

Coeff. di smorzamento viscoso = 5.0

valori risultanti per :

ag 0.907 [g/10]

Fo 2.637
TC* 0.278

Edificio con struttura in cem. armato :
Fattore di struttura q = 2.520

q = q0 * KR * KW dove :
q0 = 3.00 * 1.1 (A telaio di un piano) (Classe di duttilità "B" (bassa))
KR = 0.8 (Edifici non regolari in altezza)
KW = 1.00

Rapporto spettro di esercizio / spettro di progetto = 1.147

CONDIZIONI DI RIFERIMENTO	COEFFICIENTE	PESO RISULTANTE [daN]
1.	1.000	857733.6
2.	1.000	106260.3
3.	0.600	75311.7

*** TABELLA AUTOVETTORI ***

n	PERIODO [sec]	MASSA ATTIVATA			COEFFICIENTI DI CORRELAZIONE						
		%X	%Y	%Z	n+1	n+2	n+3	n+4	n+5	n+6	n+7
1	0.186939	14.330	2.362	0.000	0.000	0.000					
2	0.011838	63.998	18.365	0.000	0.000						
3	0.008984	9.491	71.550	0.000							
MASSA TOTALE		87.819	92.277	0.000							

CASI/COMBINAZIONI DI CARICO

In fase di progetto è stato adottato per la combinazione dei carichi l'approccio progettuale denominato "APPROCCIO 1" ai sensi delle NTC2008 par. 2.6 e definite una serie di combinazioni di carico atte a definire le condizioni di progetto e verifica per i seguenti aspetti:

- progetto e verifica degli elementi strutturali (elementi strutturali in elevazione e elementi strutturali componenti le fondazioni)
- resistenza del terreno per le verifiche di carattere geotecniche.

Attraverso l'impiego di un modello di calcolo agli elementi finiti i valori delle varie combinazioni di carico determinati vengono poi utilizzate in ulteriori moduli di verifica specifici per ciascun elemento (per esempio calcolo e verifica delle travi continue, verifica dell'interazione fondazione/terreno.

Nelle verifiche nei confronti degli stati limite ultimi strutturali (STR) e geotecnici (GEO) si possono adottare, in alternativa, due diversi approcci progettuali.

Nell'Approccio 1 si impiegano due diverse combinazioni di gruppi di coefficienti parziali, rispettivamente definiti per le azioni (A), per la resistenza dei materiali (M) e, eventualmente, per la resistenza globale del sistema (R). Nella Combinazione 1 dell'Approccio 1, per le azioni si impiegano i coefficienti γ_F riportati nella colonna A1 delle Tabelle sopra citate. Nella Combinazione 2 dell'Approccio 1, si impiegano invece i coefficienti γ_F riportati nella colonna A2.

Nell'Approccio 2 si impiega un'unica combinazione dei gruppi di coefficienti parziali definiti per le Azioni (A), per la resistenza dei materiali (M) e, eventualmente, per la resistenza globale (R). In tale approccio, per le azioni si impiegano i coefficienti γ_F riportati nella colonna A1.

I coefficienti parziali γ_M per i parametri geotecnici e i coefficienti γ_R che operano direttamente sulla resistenza globale di opere e sistemi geotecnici sono definiti nel successivo Capitolo 6.

Tabella 2.6.I – Coefficienti parziali per le azioni o per l'effetto delle azioni nelle verifiche SLU

		Coefficiente γ_F	EQU	A1 STR	A2 GEO
Carichi permanenti	favorevoli	γ_{G1}	0,9	1,0	1,0
	sfavorevoli		1,1	1,3	1,0
Carichi permanenti non strutturali ⁽¹⁾	favorevoli	γ_{G2}	0,0	0,0	0,0
	sfavorevoli		1,5	1,5	1,3
Carichi variabili	favorevoli	γ_{Qi}	0,0	0,0	0,0
	sfavorevoli		1,5	1,5	1,3

⁽¹⁾Nel caso in cui i carichi permanenti non strutturali (ad es. carichi permanenti portati) siano compiutamente definiti si potranno adottare per essi gli stessi coefficienti validi per le azioni permanenti.

Nella Tab. 2.6.I il significato dei simboli è il seguente:

- γ_{G1} coefficiente parziale del peso proprio della struttura, nonché del peso proprio del terreno e dell'acqua, quando pertinenti;
- γ_{G2} coefficiente parziale dei pesi propri degli elementi non strutturali;
- γ_{Qi} coefficiente parziale delle azioni variabili.

CONDIZIONI DI CARICO

Condizione	C1	Peso_proprio (peso proprio degli elementi strutturali (travi pilastri nervature di solaio, ...))
Condizione	C2	Carichi Permanenti (pesi permanenti non strutturali, quali pavimenti, tramezzi, muri di temponamento, orditura della copertura, manto di copertura ,...)
Condizione	C3	Carichi Variabili (carichi variabil ai vari livelli abitabili del fabbricato)
Condizione	C4	Carico Neve
Condizione	C5, ...	Azioni Sismiche

COMBINAZIONI/CASI DI CARICO E COEFFICIENTI PARZIALI

Tabella 2.5.I – Valori dei coefficienti di combinazione

Categoria/Azione variabile	Ψ_{0j}	Ψ_{1j}	Ψ_{2j}
Categoria A Ambienti ad uso residenziale	0,7	0,5	0,3
Categoria B Uffici	0,7	0,5	0,3
Categoria C Ambienti suscettibili di affollamento	0,7	0,7	0,6
Categoria D Ambienti ad uso commerciale	0,7	0,7	0,6
Categoria E Biblioteche, archivi, magazzini e ambienti ad uso industriale	1,0	0,9	0,8
Categoria F Rimesse e parcheggi (per autoveicoli di peso ≤ 30 kN)	0,7	0,7	0,6
Categoria G Rimesse e parcheggi (per autoveicoli di peso > 30 kN)	0,7	0,5	0,3
Categoria H Coperture	0,0	0,0	0,0
Vento	0,6	0,2	0,0
Neve (a quota ≤ 1000 m s.l.m.)	0,5	0,2	0,0
Neve (a quota > 1000 m s.l.m.)	0,7	0,5	0,2
Variazioni termiche	0,6	0,5	0,0

Le azioni sismiche saranno valutate tenendo conto delle masse associate ai seguenti carichi gravitazionali, ai sensi del par. 3.2.4, espressione (3.2.17):

$$(C1) + (C2) + 0.30 \cdot (C3)$$

dove il coefficiente 0.30 deriva dalla tab. 2.5.I, valore ψ_2 .

Caso 1 SLU senza azioni sismiche (A1-STR)

$$1.30 \cdot (C1) + 1.50 \cdot (C2) + 1.50 \cdot (C3) + 1.50 \cdot (C4)$$

Caso 2 caso per la determinazione delle azioni dovute al sisma dir. X

Caso 3 caso per la determinazione delle azioni dovute al sisma dir. Y

Caso 4 SLU con azioni sismiche (azione principale direzione X e componendo una frazione pari al 30% di quella Y)

$$(C1) + (C2) + 0.30 \cdot (C3) + (\text{Caso 2_sismaX}) + 0.30 \cdot (\text{Caso 3_sismaY})$$

Caso 5 SLU con azioni sismiche (azione principale direzione Y e componendo una frazione pari al 30% di quella X)

$$(C1) + (C2) + 0.30 \cdot (C3) + (\text{Caso 2_sismaY}) + 0.30 \cdot (\text{Caso 3_sismaX})$$

Caso 6 SLD con azioni sismiche (principale direzione X)

Casi in cui lo spettro SLD è maggiore di quello SLV, da considerare nelle costruzioni classe III IV par. C7.2.1

Caso 7 SLD con azioni sismiche (principale direzione Y)

Casi in cui lo spettro SLD è maggiore di quello SLV, da considerare nelle costruzioni classe III IV par. C7.2.1

Caso 8 SLU con azioni sismiche (principale direzione X) per verifica strutture fondazione (x 1.10)

$$(C1) + (C2) + 0.30 \cdot (C3) + 1.10 \cdot (\text{Caso 2_sismaX}) + 1.10 \cdot 0.30 \cdot (\text{Caso 3_sismaY})$$

Caso 9 SLU con azioni sismiche (principale direzione Y) per verifica strutture fondazione (x 1.10)

$$(C1) + (C2) + 0.30 \cdot (C3) + 1.10 \cdot (\text{Caso 2_sismaY}) + 1.10 \cdot 0.30 \cdot (\text{Caso 3_sismaX})$$

Caso 10 SLU GEO senza azioni sismiche (A2-GEO)

$$1.00 \cdot (C1) + 1.30 \cdot (C2) + 1.30 \cdot (C3) + 1.30 \cdot (C4)$$

Caso 11 SLE senza azioni sismiche

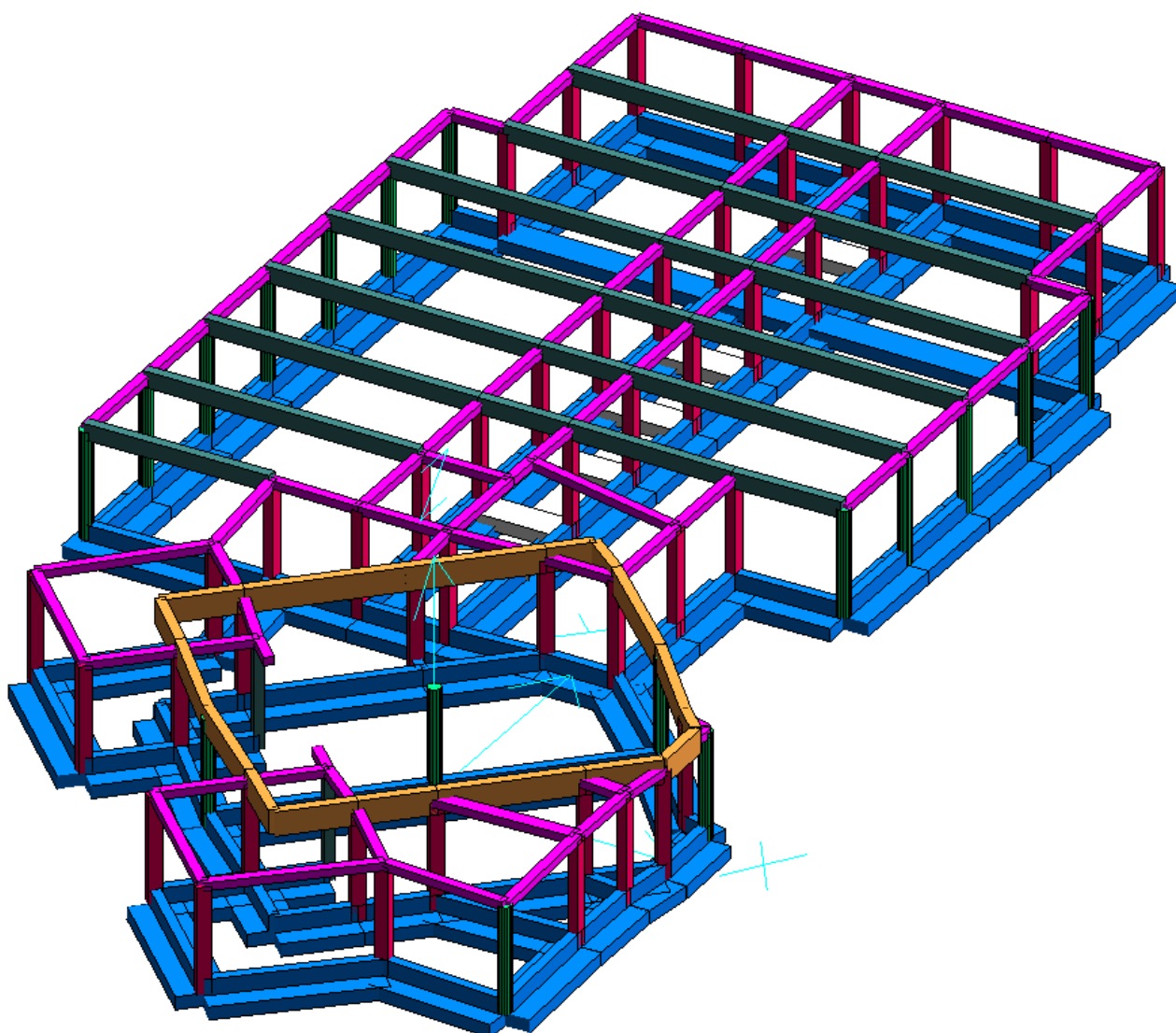
$$1.00 \cdot (C1) + 1.00 \cdot (C2) + 1.00 \cdot (C3) + 1.00 \cdot (C4)$$

DESCRIZIONE CASI DI CARICO:

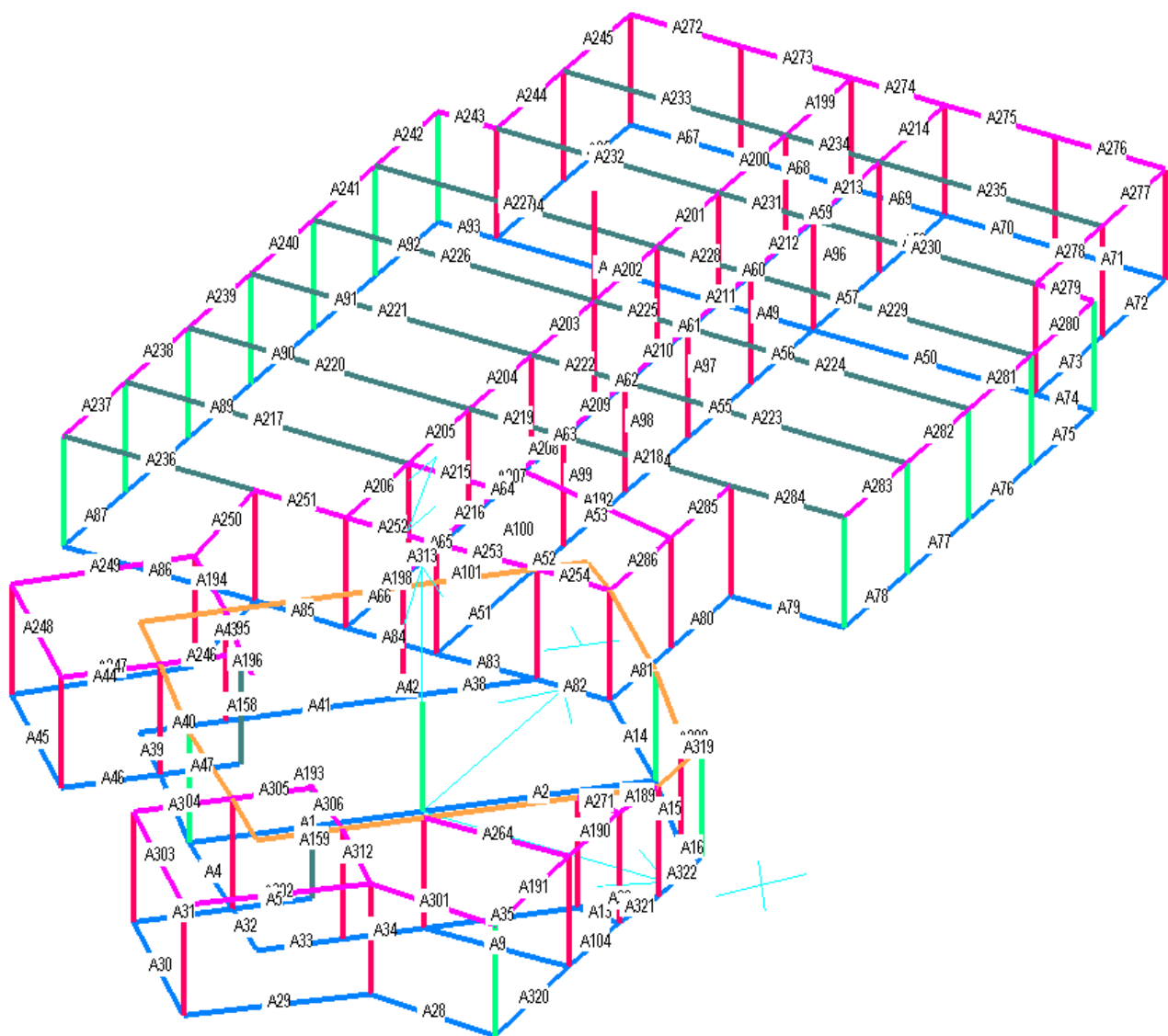
NOME	DESCRIZIONE	VERIFICA	TIPO	CONDIZ. INSERITE			CASI INSERITI	
				Num.	Coeff.	Segno	Num.	Coeff.
1	SLU SENZA SISMA	S.L.U.	somma	1 2 3 4	1.300 1.500 1.500 1.500	+ + + +		
2	SISMAX SLU	nessuna	somma	5 7 9 13	1.000 1.000 1.000 1.000	quadr. quadr. quadr. ±		
3	SISMAY SLU	nessuna	somma	6 8 10 14	1.000 1.000 1.000 1.000	quadr. quadr. quadr. ±		
4	SLU con SISMAX PRINC	S.L.U.	somma	1 2 3	1.000 1.000 0.600	+ + +	2 3	1.000 0.300
5	SLU con SISMAY PRINC	S.L.U.	somma	1 2 3	1.000 1.000 0.600	+ + +	3 2	1.000 0.300
6	SLD con SISMAX PRINC	S.L.Danno	somma	1 2 3	1.000 1.000 0.600	+ + +	2 3	3.155 0.947
7	SLD con SISMAY PRINC	S.L.Danno	somma	1 2 3	1.000 1.000 0.600	+ + +	3 2	3.155 0.947
8	SLU FON con SISMAX P	SLU_FON	somma	1 2 3	1.000 1.000 0.600	+ + +	2 3	1.100 0.330
9	SLU FON con SISMAY P	SLU_FON	somma	1 2 3	1.000 1.000 0.600	+ + +	3 2	1.100 0.330

10	Rara	Rara	somma	1	1.000	+		
				2	1.000	+		
				3	1.000	+		
				4	1.000	+		
11	Frequente	Freq.	somma	1	1.000	+		
				2	1.000	+		
				3	0.700	+		
				4	0.200	+		
12	Quasi Perm	QuasiPerm.	somma	1	1.000	+		
				2	1.000	+		
				3	0.600	+		

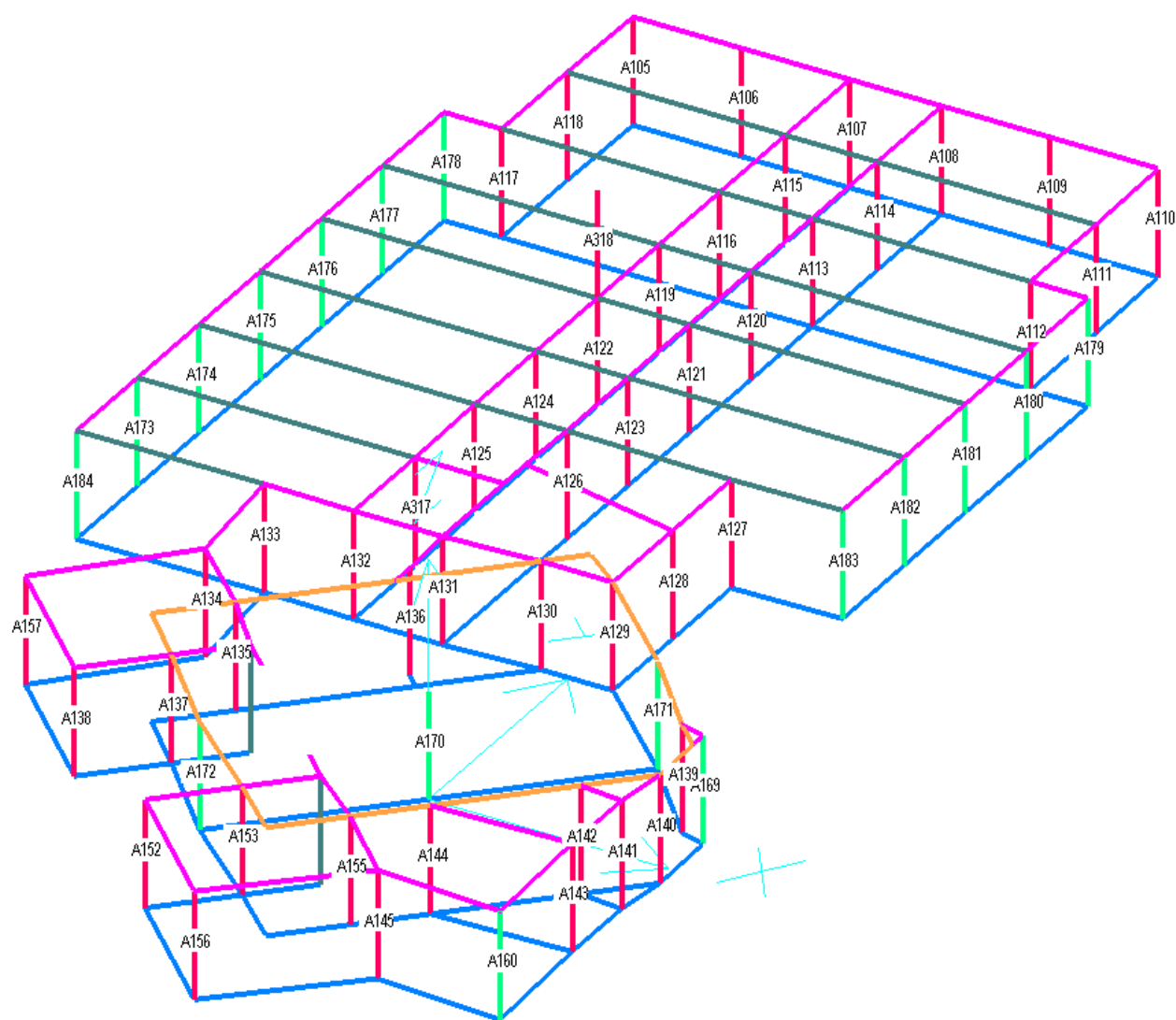
RAPPRESENTAZIONE GRAFICA DEL MODELLO



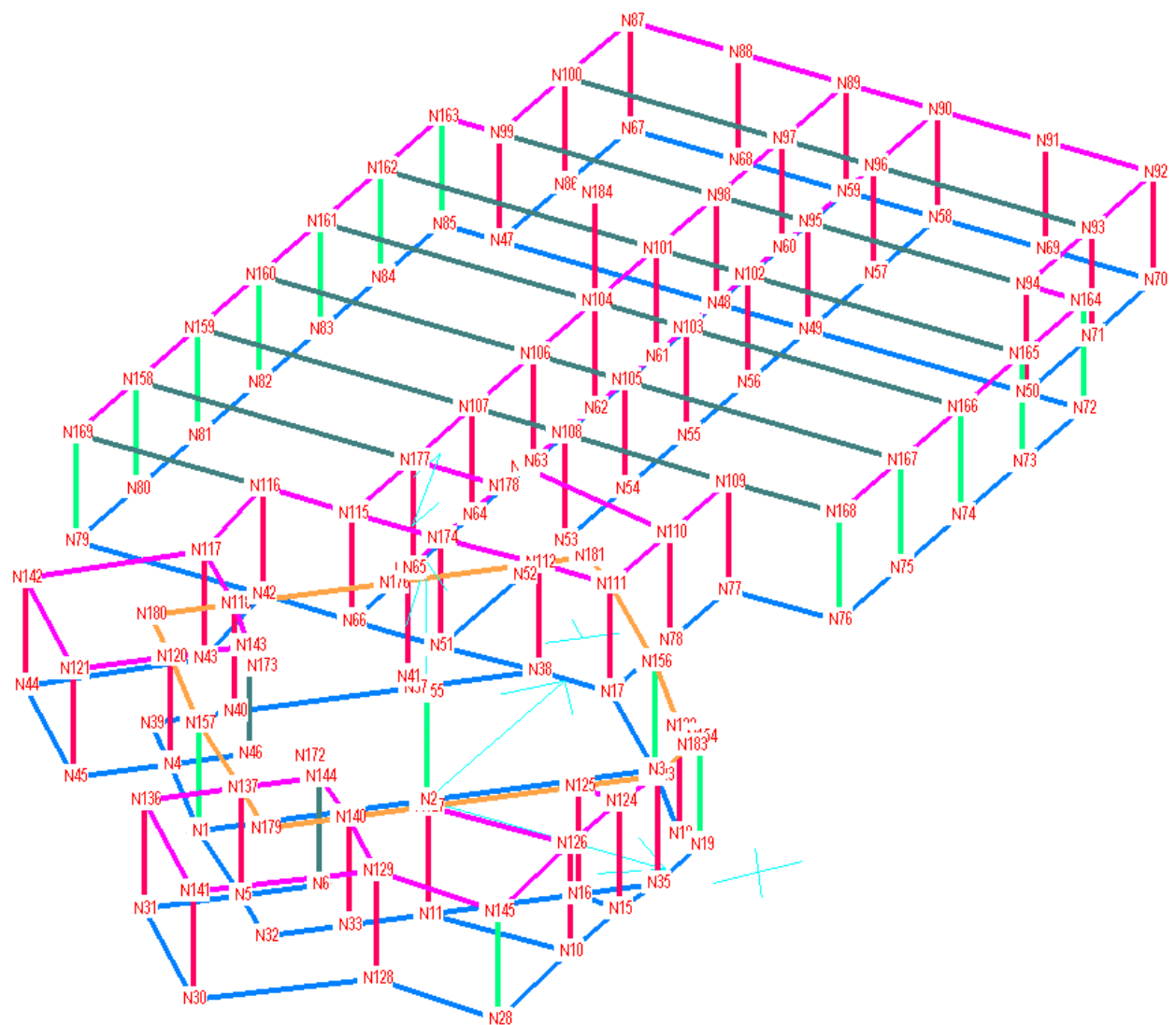
modello di calcolo



aste (aste orizzontali)



Aste (verticali)



Nodi

RISULTATI DERIVATI DAL MODELLO AGLI ELEMENTI FINITI DI CALCOLO

A) SPOSTAMENTI NODALI

Vengono riportati alle pagine seguenti i valori degli spostamenti dei nodi (che corrispondono ai punti di connessione tra le aste del modello di calcolo).

Si precisa che vengono raccolti alle pagine seguenti unicamente i risultati relativi alle combinazioni di carico 1, 4, 5, le quali rappresentano le combinazioni di carico che comportano i maggiori spostamenti nodali.

Per ogni nodo vengono indicati gli spostamenti nelle tre direzioni e le rotazioni.

SPOSTAMENTI NODI

CASO DI CARICO : 1 SLU SENZA SISMA

COMBINAZIONE

N. 4 CONDIZIONI ANALISI STATICA

1	Peso_proprio	+	1.30
2	Permanente	+	1.50
3	A:Var	+	1.50
4	Neve_(<1000m_slm)	+	1.50

1) +1.30*c001 +1.50*c002 +1.50*c003 +1.50*c004
Unità di misura: SX,SY,SZ [cm]; RX,RY,RZ [rad]

Coefficiente moltiplicativo: 1.000000

Nodo	SX	SY	SZ	RX	RY	RZ
1	0.000000	0.000000	-0.157819	0.00004	-0.00002	0.00000
2	0.000000	0.000000	-0.160727	-0.00001	-0.00001	0.00000
3	0.000000	0.000000	-0.164427	-0.00010	0.00002	0.00000
4	0.000000	0.000000	-0.179548	-0.00017	0.00002	0.00000
5	0.000000	0.000000	-0.178965	-0.00006	0.00010	0.00000
6	0.000000	0.000000	-0.202867	-0.00007	0.00010	0.00000
10	0.000000	0.000000	-0.109427	-0.00004	-0.00015	0.00000
11	0.000000	0.000000	-0.195605	-0.00006	-0.00023	0.00000
15	0.000000	0.000000	-0.121478	-0.00004	-0.00019	0.00000
16	0.000000	0.000000	-0.149184	-0.00004	-0.00019	0.00000
17	0.000000	0.000000	-0.212293	-0.00011	-0.00011	0.00000
18	0.000000	0.000000	-0.141669	-0.00003	-0.00007	0.00000
19	0.000000	0.000000	-0.133990	-0.00005	-0.00008	0.00000
28	0.000000	0.000000	-0.124184	0.00008	-0.00011	0.00000
30	0.000000	0.000000	-0.127921	-0.00003	0.00002	0.00000
31	0.000000	0.000000	-0.146857	-0.00012	0.00001	0.00000
32	0.000000	0.000000	-0.178876	-0.00011	0.00009	0.00000
33	0.000000	0.000000	-0.208586	-0.00011	-0.00005	0.00000
35	0.000000	0.000000	-0.123393	-0.00003	-0.00017	0.00000
37	0.000000	0.000000	-0.168274	-0.00011	-0.00005	0.00000
38	0.000000	0.000000	-0.231330	-0.00022	0.00002	0.00000
39	0.000000	0.000000	-0.211296	-0.00022	0.00000	0.00000
40	0.000000	0.000000	-0.240821	-0.00005	-0.00011	0.00000
41	0.000000	0.000000	-0.175331	-0.00011	-0.00006	0.00000
42	0.000000	0.000000	-0.162170	-0.00008	0.00011	0.00000
43	0.000000	0.000000	-0.145741	-0.00004	0.00010	0.00000
44	0.000000	0.000000	-0.128328	0.00001	-0.00004	0.00000
45	0.000000	0.000000	-0.142137	-0.00004	0.00012	0.00000
46	0.000000	0.000000	-0.208727	-0.00016	0.00004	0.00000
47	0.000000	0.000000	-0.190050	0.00001	-0.00027	0.00000
48	0.000000	0.000000	-0.177346	0.00003	0.00017	0.00000
49	0.000000	0.000000	-0.177604	0.00003	-0.00017	0.00000
50	0.000000	0.000000	-0.204847	-0.00001	0.00026	0.00000
51	0.000000	0.000000	-0.212394	0.00015	0.00007	0.00000
52	0.000000	0.000000	-0.172340	-0.00008	-0.00008	0.00000
53	0.000000	0.000000	-0.201825	-0.00012	-0.00007	0.00000
54	0.000000	0.000000	-0.222092	-0.00002	-0.00004	0.00000
55	0.000000	0.000000	-0.220606	0.00003	-0.00003	0.00000
56	0.000000	0.000000	-0.203409	0.00008	-0.00007	0.00000
57	0.000000	0.000000	-0.186003	-0.00004	-0.00004	0.00000
58	0.000000	0.000000	-0.204232	-0.00008	0.00002	0.00000
59	0.000000	0.000000	-0.203502	-0.00009	-0.00001	0.00000
60	0.000000	0.000000	-0.185151	-0.00004	0.00004	0.00000
61	0.000000	0.000000	-0.203545	0.00008	0.00006	0.00000
62	0.000000	0.000000	-0.222928	0.00004	0.00001	0.00000
63	0.000000	0.000000	-0.234714	0.00003	-0.00004	0.00000
64	0.000000	0.000000	-0.241247	-0.00003	-0.00011	0.00000
65	0.000000	0.000000	-0.219666	-0.00008	-0.00009	0.00000
66	0.000000	0.000000	-0.191894	-0.00003	0.00008	0.00000
67	0.000000	0.000000	-0.223930	-0.00010	-0.00010	0.00000
68	0.000000	0.000000	-0.213689	-0.00008	-0.00002	0.00000
69	0.000000	0.000000	-0.220733	-0.00008	0.00006	0.00000
70	0.000000	0.000000	-0.248346	-0.00011	0.00015	0.00000
71	0.000000	0.000000	-0.227361	-0.00006	0.00025	0.00000
72	0.000000	0.000000	-0.243261	0.00003	0.00023	0.00000

73	0.000000	0.000000	-0.271201	0.00008	0.00041	0.00000
74	0.000000	0.000000	-0.284816	-0.00001	0.00042	0.00000
75	0.000000	0.000000	-0.260955	-0.00014	0.00027	0.00000
76	0.000000	0.000000	-0.203678	-0.00015	-0.00012	0.00000
77	0.000000	0.000000	-0.282578	-0.00017	-0.00029	0.00000
78	0.000000	0.000000	-0.245412	-0.00010	-0.00013	0.00000
79	0.000000	0.000000	-0.216609	-0.00010	-0.00033	0.00000
80	0.000000	0.000000	-0.263493	-0.00012	-0.00055	0.00000
81	0.000000	0.000000	-0.289232	-0.00004	-0.00064	0.00000
82	0.000000	0.000000	-0.294771	0.00000	-0.00066	0.00000
83	0.000000	0.000000	-0.288424	0.00004	-0.00062	0.00000
84	0.000000	0.000000	-0.265778	0.00010	-0.00050	0.00000
85	0.000000	0.000000	-0.232260	0.00005	-0.00026	0.00000
86	0.000000	0.000000	-0.202297	-0.00005	-0.00023	0.00000
87	0.005792	0.002876	-0.232772	0.00020	0.00097	0.00000
88	0.005787	0.001450	-0.228537	0.00004	-0.00008	0.00000
89	0.005783	0.000012	-0.216793	0.00005	-0.00023	0.00000
90	0.005780	-0.001204	-0.217537	0.00006	0.00025	0.00000
91	0.005776	-0.002630	-0.235617	0.00007	0.00012	0.00000
92	0.005771	-0.004070	-0.258933	0.00039	-0.00093	0.00000
93	0.004295	-0.004089	-0.244226	0.00001	-0.00141	0.00000
94	0.002790	-0.004084	-0.222111	-0.00029	-0.00100	0.00000
95	0.002801	-0.001206	-0.191570	-0.00001	0.00078	0.00000
96	0.004306	-0.001205	-0.200641	0.00000	0.00084	0.00000
97	0.004306	0.000012	-0.199630	-0.00001	-0.00082	0.00000
98	0.002801	0.000008	-0.191187	-0.00001	-0.00077	0.00000
99	0.002810	0.002905	-0.205627	-0.00016	0.00101	0.00000
100	0.004317	0.002900	-0.215300	-0.00001	0.00145	0.00000
101	0.001401	0.000005	-0.219435	0.00001	-0.00135	0.00000
102	0.001391	-0.001206	-0.219287	0.00001	0.00135	0.00000
103	-0.000007	-0.001207	-0.236566	0.00001	0.00136	0.00000
104	0.000000	0.000000	-0.238908	0.00001	-0.00137	0.00000
105	-0.001444	-0.001201	-0.237515	-0.00007	0.00130	0.00000
106	-0.001434	0.000015	-0.250542	-0.00002	-0.00139	0.00000
107	-0.002859	0.000022	-0.262433	0.00020	-0.00121	0.00000
108	-0.002862	-0.001201	-0.220037	0.00086	0.00051	0.00000
109	-0.002900	-0.003404	-0.299576	0.00043	-0.00039	0.00000
110	-0.004258	-0.003395	-0.259991	-0.00006	-0.00081	0.00000
111	-0.005628	-0.003392	-0.223086	0.00004	0.00008	0.00000
112	-0.005625	-0.002433	-0.260421	0.00042	-0.00050	0.00000
115	-0.005693	0.000010	-0.203452	-0.00020	0.00013	0.00000
116	-0.005668	0.001207	-0.173662	0.00000	-0.00072	0.00000
117	-0.007302	0.001058	-0.152653	0.00047	-0.00015	0.00000
118	-0.008192	0.000144	-0.270031	-0.00043	0.00027	0.00000
119	-0.006492	-0.001188	-0.175920	0.00006	0.00000	0.00000
120	-0.009614	0.000175	-0.195008	-0.00006	-0.00011	0.00000
121	-0.010431	0.000993	-0.146080	-0.00026	0.00002	0.00000
122	-0.008083	-0.005722	-0.147879	-0.00003	-0.00013	0.00000
123	-0.009219	-0.006078	-0.128400	-0.00002	-0.00018	0.00000
124	-0.009950	-0.005992	-0.124527	0.00001	-0.00023	0.00000
125	-0.009885	-0.005410	-0.160845	0.00013	-0.00016	0.00000
126	-0.011083	-0.005992	-0.116098	0.00011	-0.00084	0.00000
127	-0.011140	-0.004151	-0.207568	0.00023	0.00028	0.00000
128	0.000000	0.000000	-0.179175	-0.00025	-0.00010	0.00000
129	-0.012734	-0.004368	-0.192033	0.00044	0.00022	0.00000
136	-0.012659	-0.001233	-0.150978	-0.00004	0.00024	0.00000
137	-0.011841	-0.002053	-0.198647	0.00033	0.00012	0.00000
140	-0.011814	-0.003475	-0.223465	0.00033	-0.00002	0.00000
141	-0.014205	-0.002777	-0.133299	-0.00044	0.00028	0.00000
142	-0.008886	0.002532	-0.133733	-0.00033	0.00048	0.00000
143	-0.008950	-0.000489	-0.212271	-0.00003	-0.00013	0.00000
144	-0.011180	-0.002717	-0.205859	0.00013	-0.00010	0.00000
145	-0.012849	-0.006056	-0.131780	-0.00012	-0.00093	0.00000
154	-0.008176	-0.006058	-0.135768	0.00002	-0.00009	0.00000
155	-0.008866	-0.002807	-0.174447	0.00002	-0.00003	0.00000
156	-0.006938	-0.004734	-0.177561	-0.00002	-0.00019	0.00000
157	-0.010790	-0.000878	-0.166983	-0.00002	-0.00003	0.00000
158	-0.004267	0.003689	-0.281021	-0.00001	0.00227	0.00000
159	-0.002834	0.003680	-0.306256	-0.00001	0.00221	0.00000
160	-0.001406	0.003671	-0.311901	-0.00001	0.00224	0.00000
161	0.000015	0.003663	-0.305524	0.00001	0.00222	0.00000
162	0.001428	0.003658	-0.283101	-0.00001	0.00212	0.00000
163	0.002810	0.003659	-0.235771	0.00035	0.00000	0.00000
164	0.002791	-0.004855	-0.246891	0.00037	0.00001	0.00000
165	0.001358	-0.004856	-0.288533	0.00000	-0.00209	0.00000
166	-0.000032	-0.004855	-0.301876	0.00001	-0.00217	0.00000
167	-0.001477	-0.004852	-0.278231	-0.00001	-0.00209	0.00000
168	-0.002876	-0.004852	-0.209825	-0.00025	-0.00027	0.00000
169	-0.005684	0.003695	-0.226429	-0.00038	0.00082	0.00000
171	-0.003777	-0.001172	-0.895736	0.00265	0.00134	0.00000
172	-0.010824	-0.002361	-0.208349	0.00009	-0.00014	0.00000
173	-0.009308	-0.000846	-0.203398	0.00000	-0.00010	0.00000
174	-0.005694	-0.001163	-0.229965	-0.00102	0.00034	0.00000
175	-0.006509	-0.001204	-0.128215	-0.00034	0.00036	0.00000
176	-0.006859	-0.001204	-0.101872	-0.00033	0.00036	0.00000
177	-0.004286	0.000007	-0.238899	-0.00001	-0.00169	0.00000
178	-0.004286	-0.001169	-1.061190	0.00016	0.00357	0.00000
179	-0.012523	-0.002764	-0.313925	0.00066	0.00012	0.00000
180	-0.008903	0.000853	-0.236230	-0.00016	-0.00009	0.00000
181	-0.005204	-0.002855	-0.200387	0.00040	-0.00012	0.00000
183	-0.008424	-0.006063	-0.136006	-0.00004	-0.00013	0.00000

SPOSTAMENTI NODI

CASO DI CARICO : 4 SLU con SISMAX PRINC COMBINAZIONE

N. 3 CONDIZIONI ANALISI STATICA

1 Peso_proprio_____ + 1.00
 2 Permanente_____ + 1.00
 3 A:Var_____ + 0.60

N. 2 CASI DI CARICO

2 SISMAX SLU 1.00
 3 SISMAX SLU 0.30

1) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c002.001 +0.30*c003.001
 2) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c002.001 +0.30*c003.002
 3) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c002.001 +0.30*c003.003
 4) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c002.001 +0.30*c003.004
 5) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c002.002 +0.30*c003.001
 6) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c002.002 +0.30*c003.002
 7) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c002.002 +0.30*c003.003
 8) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c002.002 +0.30*c003.004
 9) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c002.003 +0.30*c003.001
 10) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c002.003 +0.30*c003.002
 11) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c002.003 +0.30*c003.003
 12) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c002.003 +0.30*c003.004
 13) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c002.004 +0.30*c003.001
 14) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c002.004 +0.30*c003.002
 15) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c002.004 +0.30*c003.003
 16) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c002.004 +0.30*c003.004

Unità di misura: SX,SY,SZ [cm]; RX,RY,RZ [rad]

Coefficiente moltiplicativo: 1.000000

Nodo	SX	SY	SZ	RX	RY	RZ
1	0.000000	0.000000	-0.102027	0.00002	-0.00001	0.00000
	0.000000	0.000000	-0.102073	0.00002	-0.00001	0.00000
	0.000000	0.000000	-0.102083	0.00002	-0.00001	0.00000
	0.000000	0.000000	-0.102130	0.00003	-0.00002	0.00000
	0.000000	0.000000	-0.101710	0.00002	0.00000	0.00000
	0.000000	0.000000	-0.101756	0.00002	-0.00001	0.00000
	0.000000	0.000000	-0.101766	0.00002	-0.00001	0.00000
	0.000000	0.000000	-0.101813	0.00002	-0.00001	0.00000
	0.000000	0.000000	-0.102711	0.00004	-0.00003	0.00000
	0.000000	0.000000	-0.102757	0.00004	-0.00004	0.00000
	0.000000	0.000000	-0.102768	0.00004	-0.00004	0.00000
	0.000000	0.000000	-0.102814	0.00004	-0.00004	0.00000
	0.000000	0.000000	-0.102394	0.00003	-0.00002	0.00000
	0.000000	0.000000	-0.102440	0.00003	-0.00003	0.00000
	0.000000	0.000000	-0.102451	0.00003	-0.00003	0.00000
	0.000000	0.000000	-0.102497	0.00003	-0.00003	0.00000
2	0.000000	0.000000	-0.092005	0.00000	0.00000	0.00000
	0.000000	0.000000	-0.092023	0.00000	0.00000	0.00000
	0.000000	0.000000	-0.092027	0.00000	0.00000	0.00000
	0.000000	0.000000	-0.092046	0.00000	-0.00001	0.00000
	0.000000	0.000000	-0.091878	0.00001	0.00001	0.00000
	0.000000	0.000000	-0.091897	0.00001	0.00001	0.00000
	0.000000	0.000000	-0.091901	0.00001	0.00001	0.00000
	0.000000	0.000000	-0.091919	0.00001	0.00001	0.00000
	0.000000	0.000000	-0.092278	-0.00002	-0.00002	0.00000
	0.000000	0.000000	-0.092297	-0.00002	-0.00003	0.00000
	0.000000	0.000000	-0.092300	-0.00002	-0.00003	0.00000
	0.000000	0.000000	-0.092319	-0.00002	-0.00003	0.00000
	0.000000	0.000000	-0.092152	-0.00001	-0.00001	0.00000
	0.000000	0.000000	-0.092170	-0.00001	-0.00002	0.00000
	0.000000	0.000000	-0.092174	-0.00001	-0.00002	0.00000
	0.000000	0.000000	-0.092192	-0.00001	-0.00002	0.00000
3	0.000000	0.000000	-0.101514	-0.00006	0.00002	0.00000
	0.000000	0.000000	-0.101290	-0.00006	0.00002	0.00000
	0.000000	0.000000	-0.101239	-0.00006	0.00002	0.00000
	0.000000	0.000000	-0.101015	-0.00006	0.00002	0.00000
	0.000000	0.000000	-0.103035	-0.00007	0.00004	0.00000
	0.000000	0.000000	-0.102811	-0.00007	0.00004	0.00000
	0.000000	0.000000	-0.102760	-0.00007	0.00004	0.00000
	0.000000	0.000000	-0.102536	-0.00007	0.00004	0.00000
	0.000000	0.000000	-0.098238	-0.00004	-0.00001	0.00000
	0.000000	0.000000	-0.098014	-0.00004	-0.00001	0.00000
	0.000000	0.000000	-0.097963	-0.00004	-0.00002	0.00000
	0.000000	0.000000	-0.097739	-0.00004	-0.00002	0.00000
	0.000000	0.000000	-0.099760	-0.00005	0.00000	0.00000
	0.000000	0.000000	-0.099536	-0.00005	0.00000	0.00000
	0.000000	0.000000	-0.099484	-0.00005	0.00000	0.00000
	0.000000	0.000000	-0.099260	-0.00005	0.00000	0.00000
4	0.000000	0.000000	-0.114555	-0.00009	0.00002	0.00000

	0.000000	0.000000	-0.114582	-0.00009	0.00002	0.00000
	0.000000	0.000000	-0.114587	-0.00009	0.00002	0.00000
	0.000000	0.000000	-0.114614	-0.00009	0.00002	0.00000
	0.000000	0.000000	-0.114371	-0.00010	0.00004	0.00000
	0.000000	0.000000	-0.114398	-0.00010	0.00004	0.00000
	0.000000	0.000000	-0.114403	-0.00010	0.00004	0.00000
	0.000000	0.000000	-0.114430	-0.00010	0.00004	0.00000
	0.000000	0.000000	-0.114953	-0.00007	-0.00002	0.00000
	0.000000	0.000000	-0.114980	-0.00007	-0.00002	0.00000
	0.000000	0.000000	-0.114985	-0.00007	-0.00002	0.00000
	0.000000	0.000000	-0.115012	-0.00007	-0.00003	0.00000
	0.000000	0.000000	-0.114769	-0.00008	0.00000	0.00000
	0.000000	0.000000	-0.114796	-0.00008	0.00000	0.00000
	0.000000	0.000000	-0.114801	-0.00008	0.00000	0.00000
	0.000000	0.000000	-0.114828	-0.00008	-0.00001	0.00000
5	0.000000	0.000000	-0.113937	-0.00004	0.00007	0.00000
	0.000000	0.000000	-0.114070	-0.00004	0.00006	0.00000
	0.000000	0.000000	-0.114099	-0.00004	0.00006	0.00000
	0.000000	0.000000	-0.114232	-0.00004	0.00006	0.00000
	0.000000	0.000000	-0.113029	-0.00006	0.00009	0.00000
	0.000000	0.000000	-0.113163	-0.00006	0.00008	0.00000
	0.000000	0.000000	-0.113192	-0.00006	0.00008	0.00000
	0.000000	0.000000	-0.113325	-0.00006	0.00008	0.00000
	0.000000	0.000000	-0.115893	0.00000	0.00002	0.00000
	0.000000	0.000000	-0.116026	0.00001	0.00002	0.00000
	0.000000	0.000000	-0.116055	0.00001	0.00002	0.00000
	0.000000	0.000000	-0.116189	0.00001	0.00002	0.00000
	0.000000	0.000000	-0.114985	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.115119	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.115148	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.115281	-0.00001	0.00004	0.00000
6	0.000000	0.000000	-0.132651	-0.00005	0.00008	0.00000
	0.000000	0.000000	-0.131784	-0.00005	0.00008	0.00000
	0.000000	0.000000	-0.131593	-0.00005	0.00008	0.00000
	0.000000	0.000000	-0.130725	-0.00005	0.00007	0.00000
	0.000000	0.000000	-0.138554	-0.00007	0.00012	0.00000
	0.000000	0.000000	-0.137686	-0.00006	0.00011	0.00000
	0.000000	0.000000	-0.137496	-0.00006	0.00011	0.00000
	0.000000	0.000000	-0.136628	-0.00006	0.00011	0.00000
	0.000000	0.000000	-0.119923	-0.00002	0.00001	0.00000
	0.000000	0.000000	-0.119055	-0.00002	0.00000	0.00000
	0.000000	0.000000	-0.118864	-0.00002	0.00000	0.00000
	0.000000	0.000000	-0.117997	-0.00001	0.00000	0.00000
	0.000000	0.000000	-0.125826	-0.00003	0.00004	0.00000
	0.000000	0.000000	-0.124958	-0.00003	0.00004	0.00000
	0.000000	0.000000	-0.124767	-0.00003	0.00004	0.00000
	0.000000	0.000000	-0.123899	-0.00003	0.00003	0.00000
10	0.000000	0.000000	-0.076059	-0.00003	-0.00007	0.00000
	0.000000	0.000000	-0.075611	-0.00003	-0.00007	0.00000
	0.000000	0.000000	-0.075524	-0.00003	-0.00007	0.00000
	0.000000	0.000000	-0.075076	-0.00003	-0.00008	0.00000
	0.000000	0.000000	-0.079116	-0.00004	-0.00005	0.00000
	0.000000	0.000000	-0.078668	-0.00004	-0.00005	0.00000
	0.000000	0.000000	-0.078581	-0.00004	-0.00005	0.00000
	0.000000	0.000000	-0.078133	-0.00004	-0.00006	0.00000
	0.000000	0.000000	-0.069447	-0.00002	-0.00012	0.00000
	0.000000	0.000000	-0.068999	-0.00002	-0.00012	0.00000
	0.000000	0.000000	-0.068912	-0.00002	-0.00012	0.00000
	0.000000	0.000000	-0.068464	-0.00002	-0.00012	0.00000
	0.000000	0.000000	-0.072504	-0.00003	-0.00010	0.00000
	0.000000	0.000000	-0.072056	-0.00003	-0.00010	0.00000
	0.000000	0.000000	-0.071969	-0.00003	-0.00010	0.00000
	0.000000	0.000000	-0.071521	-0.00003	-0.00010	0.00000
11	0.000000	0.000000	-0.120385	-0.00003	-0.00011	0.00000
	0.000000	0.000000	-0.120728	-0.00003	-0.00012	0.00000
	0.000000	0.000000	-0.120797	-0.00003	-0.00012	0.00000
	0.000000	0.000000	-0.121140	-0.00003	-0.00012	0.00000
	0.000000	0.000000	-0.118050	-0.00002	-0.00010	0.00000
	0.000000	0.000000	-0.118393	-0.00002	-0.00010	0.00000
	0.000000	0.000000	-0.118462	-0.00002	-0.00010	0.00000
	0.000000	0.000000	-0.118805	-0.00002	-0.00011	0.00000
	0.000000	0.000000	-0.125429	-0.00004	-0.00014	0.00000
	0.000000	0.000000	-0.125771	-0.00004	-0.00015	0.00000
	0.000000	0.000000	-0.125841	-0.00004	-0.00015	0.00000
	0.000000	0.000000	-0.126183	-0.00004	-0.00015	0.00000
	0.000000	0.000000	-0.123094	-0.00003	-0.00013	0.00000
	0.000000	0.000000	-0.123437	-0.00004	-0.00013	0.00000
	0.000000	0.000000	-0.123506	-0.00004	-0.00013	0.00000
	0.000000	0.000000	-0.123849	-0.00004	-0.00014	0.00000
15	0.000000	0.000000	-0.083771	-0.00002	-0.00007	0.00000
	0.000000	0.000000	-0.083102	-0.00002	-0.00008	0.00000
	0.000000	0.000000	-0.082965	-0.00002	-0.00008	0.00000
	0.000000	0.000000	-0.082296	-0.00002	-0.00009	0.00000
	0.000000	0.000000	-0.088327	-0.00003	-0.00003	0.00000
	0.000000	0.000000	-0.087658	-0.00003	-0.00004	0.00000
	0.000000	0.000000	-0.087521	-0.00003	-0.00004	0.00000

	0.000000	0.000000	-0.086852	-0.00003	-0.00005	0.00000
	0.000000	0.000000	-0.073929	0.00000	-0.00016	0.00000
	0.000000	0.000000	-0.073261	0.00000	-0.00017	0.00000
	0.000000	0.000000	-0.073123	0.00000	-0.00017	0.00000
	0.000000	0.000000	-0.072455	0.00000	-0.00018	0.00000
	0.000000	0.000000	-0.078485	-0.00001	-0.00012	0.00000
	0.000000	0.000000	-0.077816	-0.00001	-0.00013	0.00000
	0.000000	0.000000	-0.077679	-0.00001	-0.00013	0.00000
	0.000000	0.000000	-0.077010	-0.00001	-0.00013	0.00000
16	0.000000	0.000000	-0.094954	-0.00002	-0.00008	0.00000
	0.000000	0.000000	-0.095033	-0.00002	-0.00008	0.00000
	0.000000	0.000000	-0.095047	-0.00002	-0.00009	0.00000
	0.000000	0.000000	-0.095126	-0.00002	-0.00009	0.00000
	0.000000	0.000000	-0.094414	-0.00002	-0.00004	0.00000
	0.000000	0.000000	-0.094493	-0.00002	-0.00005	0.00000
	0.000000	0.000000	-0.094507	-0.00002	-0.00005	0.00000
	0.000000	0.000000	-0.094586	-0.00002	-0.00005	0.00000
	0.000000	0.000000	-0.096124	-0.00001	-0.00016	0.00000
	0.000000	0.000000	-0.096203	-0.00001	-0.00016	0.00000
	0.000000	0.000000	-0.096217	-0.00001	-0.00017	0.00000
	0.000000	0.000000	-0.096296	-0.00001	-0.00017	0.00000
	0.000000	0.000000	-0.095584	-0.00002	-0.00012	0.00000
	0.000000	0.000000	-0.095663	-0.00002	-0.00013	0.00000
	0.000000	0.000000	-0.095677	-0.00002	-0.00013	0.00000
	0.000000	0.000000	-0.095756	-0.00002	-0.00013	0.00000
17	0.000000	0.000000	-0.127856	-0.00007	-0.00006	0.00000
	0.000000	0.000000	-0.127750	-0.00007	-0.00007	0.00000
	0.000000	0.000000	-0.127727	-0.00007	-0.00007	0.00000
	0.000000	0.000000	-0.127621	-0.00007	-0.00007	0.00000
	0.000000	0.000000	-0.128579	-0.00007	-0.00006	0.00000
	0.000000	0.000000	-0.128473	-0.00007	-0.00006	0.00000
	0.000000	0.000000	-0.128449	-0.00007	-0.00006	0.00000
	0.000000	0.000000	-0.128343	-0.00007	-0.00006	0.00000
	0.000000	0.000000	-0.126296	-0.00006	-0.00008	0.00000
	0.000000	0.000000	-0.126190	-0.00006	-0.00008	0.00000
	0.000000	0.000000	-0.126167	-0.00006	-0.00008	0.00000
	0.000000	0.000000	-0.126061	-0.00006	-0.00008	0.00000
	0.000000	0.000000	-0.127018	-0.00006	-0.00007	0.00000
	0.000000	0.000000	-0.126912	-0.00006	-0.00007	0.00000
	0.000000	0.000000	-0.126889	-0.00006	-0.00007	0.00000
	0.000000	0.000000	-0.126783	-0.00006	-0.00007	0.00000
18	0.000000	0.000000	-0.092502	-0.00004	0.00000	0.00000
	0.000000	0.000000	-0.091698	-0.00003	0.00000	0.00000
	0.000000	0.000000	-0.091524	-0.00003	-0.00001	0.00000
	0.000000	0.000000	-0.090721	-0.00003	-0.00002	0.00000
	0.000000	0.000000	-0.097965	-0.00006	0.00007	0.00000
	0.000000	0.000000	-0.097162	-0.00006	0.00006	0.00000
	0.000000	0.000000	-0.096988	-0.00006	0.00005	0.00000
	0.000000	0.000000	-0.096185	-0.00005	0.00005	0.00000
	0.000000	0.000000	-0.080719	0.00002	-0.00013	0.00000
	0.000000	0.000000	-0.079916	0.00002	-0.00014	0.00000
	0.000000	0.000000	-0.079741	0.00002	-0.00014	0.00000
	0.000000	0.000000	-0.078938	0.00003	-0.00015	0.00000
	0.000000	0.000000	-0.086183	-0.00001	-0.00007	0.00000
	0.000000	0.000000	-0.085379	0.00000	-0.00008	0.00000
	0.000000	0.000000	-0.085205	0.00000	-0.00008	0.00000
	0.000000	0.000000	-0.084402	0.00000	-0.00009	0.00000
19	0.000000	0.000000	-0.091508	-0.00004	0.00000	0.00000
	0.000000	0.000000	-0.090051	-0.00004	-0.00001	0.00000
	0.000000	0.000000	-0.089739	-0.00004	-0.00001	0.00000
	0.000000	0.000000	-0.088281	-0.00003	-0.00002	0.00000
	0.000000	0.000000	-0.101426	-0.00006	0.00006	0.00000
	0.000000	0.000000	-0.099968	-0.00006	0.00005	0.00000
	0.000000	0.000000	-0.099656	-0.00006	0.00005	0.00000
	0.000000	0.000000	-0.098199	-0.00005	0.00004	0.00000
	0.000000	0.000000	-0.070110	0.00000	-0.00014	0.00000
	0.000000	0.000000	-0.068653	0.00001	-0.00015	0.00000
	0.000000	0.000000	-0.068341	0.00001	-0.00015	0.00000
	0.000000	0.000000	-0.066883	0.00001	-0.00016	0.00000
	0.000000	0.000000	-0.080028	-0.00002	-0.00007	0.00000
	0.000000	0.000000	-0.078570	-0.00001	-0.00008	0.00000
	0.000000	0.000000	-0.078258	-0.00001	-0.00009	0.00000
	0.000000	0.000000	-0.076801	-0.00001	-0.00010	0.00000
28	0.000000	0.000000	-0.077992	0.00004	-0.00007	0.00000
	0.000000	0.000000	-0.077478	0.00004	-0.00007	0.00000
	0.000000	0.000000	-0.077385	0.00004	-0.00007	0.00000
	0.000000	0.000000	-0.076871	0.00004	-0.00008	0.00000
	0.000000	0.000000	-0.081502	0.00004	-0.00005	0.00000
	0.000000	0.000000	-0.080988	0.00004	-0.00005	0.00000
	0.000000	0.000000	-0.080895	0.00004	-0.00005	0.00000
	0.000000	0.000000	-0.080381	0.00004	-0.00006	0.00000
	0.000000	0.000000	-0.070395	0.00004	-0.00011	0.00000
	0.000000	0.000000	-0.069881	0.00004	-0.00012	0.00000
	0.000000	0.000000	-0.069788	0.00004	-0.00012	0.00000
	0.000000	0.000000	-0.069274	0.00004	-0.00012	0.00000
	0.000000	0.000000	-0.073905	0.00004	-0.00009	0.00000

	0.000000	0.000000	-0.073391	0.00004	-0.00010	0.00000
	0.000000	0.000000	-0.073298	0.00004	-0.00010	0.00000
	0.000000	0.000000	-0.072784	0.00004	-0.00010	0.00000
30	0.000000	0.000000	-0.094277	0.00001	0.00002	0.00000
	0.000000	0.000000	-0.094512	0.00001	0.00002	0.00000
	0.000000	0.000000	-0.094572	0.00001	0.00002	0.00000
	0.000000	0.000000	-0.094807	0.00001	0.00002	0.00000
	0.000000	0.000000	-0.092682	0.00001	0.00004	0.00000
	0.000000	0.000000	-0.092917	0.00001	0.00004	0.00000
	0.000000	0.000000	-0.092977	0.00001	0.00004	0.00000
	0.000000	0.000000	-0.093212	0.00001	0.00003	0.00000
	0.000000	0.000000	-0.097706	0.00001	-0.00002	0.00000
	0.000000	0.000000	-0.097941	0.00001	-0.00002	0.00000
	0.000000	0.000000	-0.098001	0.00001	-0.00002	0.00000
	0.000000	0.000000	-0.098236	0.00001	-0.00003	0.00000
	0.000000	0.000000	-0.096111	0.00001	0.00000	0.00000
	0.000000	0.000000	-0.096346	0.00001	0.00000	0.00000
	0.000000	0.000000	-0.096406	0.00001	0.00000	0.00000
	0.000000	0.000000	-0.096641	0.00001	-0.00001	0.00000
31	0.000000	0.000000	-0.094462	-0.00006	0.00003	0.00000
	0.000000	0.000000	-0.095718	-0.00006	0.00002	0.00000
	0.000000	0.000000	-0.095987	-0.00006	0.00002	0.00000
	0.000000	0.000000	-0.097244	-0.00006	0.00001	0.00000
	0.000000	0.000000	-0.085913	-0.00007	0.00006	0.00000
	0.000000	0.000000	-0.087169	-0.00007	0.00006	0.00000
	0.000000	0.000000	-0.087439	-0.00007	0.00006	0.00000
	0.000000	0.000000	-0.088695	-0.00007	0.00005	0.00000
	0.000000	0.000000	-0.112902	-0.00004	-0.00006	0.00000
	0.000000	0.000000	-0.114158	-0.00004	-0.00006	0.00000
	0.000000	0.000000	-0.114428	-0.00004	-0.00006	0.00000
	0.000000	0.000000	-0.115684	-0.00003	-0.00007	0.00000
	0.000000	0.000000	-0.104353	-0.00005	-0.00002	0.00000
	0.000000	0.000000	-0.105610	-0.00005	-0.00002	0.00000
	0.000000	0.000000	-0.105879	-0.00005	-0.00002	0.00000
	0.000000	0.000000	-0.107135	-0.00004	-0.00003	0.00000
32	0.000000	0.000000	-0.112982	-0.00006	0.00004	0.00000
	0.000000	0.000000	-0.113304	-0.00006	0.00004	0.00000
	0.000000	0.000000	-0.113380	-0.00006	0.00004	0.00000
	0.000000	0.000000	-0.113702	-0.00006	0.00004	0.00000
	0.000000	0.000000	-0.110797	-0.00006	0.00004	0.00000
	0.000000	0.000000	-0.111119	-0.00006	0.00004	0.00000
	0.000000	0.000000	-0.111195	-0.00006	0.00004	0.00000
	0.000000	0.000000	-0.111517	-0.00006	0.00004	0.00000
	0.000000	0.000000	-0.117685	-0.00005	0.00005	0.00000
	0.000000	0.000000	-0.118007	-0.00005	0.00005	0.00000
	0.000000	0.000000	-0.118084	-0.00005	0.00005	0.00000
	0.000000	0.000000	-0.118406	-0.00005	0.00005	0.00000
	0.000000	0.000000	-0.115500	-0.00005	0.00004	0.00000
	0.000000	0.000000	-0.115822	-0.00005	0.00004	0.00000
	0.000000	0.000000	-0.115899	-0.00005	0.00004	0.00000
	0.000000	0.000000	-0.116221	-0.00005	0.00004	0.00000
33	0.000000	0.000000	-0.127420	-0.00005	-0.00002	0.00000
	0.000000	0.000000	-0.127806	-0.00005	-0.00002	0.00000
	0.000000	0.000000	-0.127891	-0.00005	-0.00002	0.00000
	0.000000	0.000000	-0.128277	-0.00005	-0.00002	0.00000
	0.000000	0.000000	-0.124794	-0.00004	0.00000	0.00000
	0.000000	0.000000	-0.125181	-0.00004	-0.00001	0.00000
	0.000000	0.000000	-0.125265	-0.00004	-0.00001	0.00000
	0.000000	0.000000	-0.125651	-0.00004	-0.00001	0.00000
	0.000000	0.000000	-0.133084	-0.00007	-0.00005	0.00000
	0.000000	0.000000	-0.133470	-0.00007	-0.00005	0.00000
	0.000000	0.000000	-0.133554	-0.00007	-0.00005	0.00000
	0.000000	0.000000	-0.133940	-0.00007	-0.00005	0.00000
	0.000000	0.000000	-0.130458	-0.00006	-0.00003	0.00000
	0.000000	0.000000	-0.130844	-0.00006	-0.00004	0.00000
	0.000000	0.000000	-0.130928	-0.00006	-0.00004	0.00000
	0.000000	0.000000	-0.131314	-0.00006	-0.00004	0.00000
35	0.000000	0.000000	-0.084935	-0.00001	-0.00006	0.00000
	0.000000	0.000000	-0.083926	-0.00001	-0.00006	0.00000
	0.000000	0.000000	-0.083714	-0.00001	-0.00006	0.00000
	0.000000	0.000000	-0.082705	-0.00001	-0.00007	0.00000
	0.000000	0.000000	-0.091804	-0.00002	0.00000	0.00000
	0.000000	0.000000	-0.090795	-0.00002	-0.00001	0.00000
	0.000000	0.000000	-0.090582	-0.00002	-0.00001	0.00000
	0.000000	0.000000	-0.089573	-0.00002	-0.00002	0.00000
	0.000000	0.000000	-0.070108	0.00001	-0.00016	0.00000
	0.000000	0.000000	-0.069099	0.00001	-0.00017	0.00000
	0.000000	0.000000	-0.068887	0.00001	-0.00017	0.00000
	0.000000	0.000000	-0.067878	0.00001	-0.00018	0.00000
	0.000000	0.000000	-0.076977	0.00000	-0.00011	0.00000
	0.000000	0.000000	-0.075968	0.00000	-0.00012	0.00000
	0.000000	0.000000	-0.075755	0.00000	-0.00012	0.00000
	0.000000	0.000000	-0.074747	0.00000	-0.00013	0.00000
37	0.000000	0.000000	-0.109394	-0.00007	-0.00003	0.00000
	0.000000	0.000000	-0.109397	-0.00007	-0.00003	0.00000

42

	0.000000	0.000000	-0.115716	-0.00006	0.00007	0.00000
	0.000000	0.000000	-0.115737	-0.00006	0.00007	0.00000
	0.000000	0.000000	-0.115739	-0.00006	0.00007	0.00000
	0.000000	0.000000	-0.115760	-0.00006	0.00007	0.00000
	0.000000	0.000000	-0.115574	-0.00005	0.00007	0.00000
	0.000000	0.000000	-0.115595	-0.00005	0.00007	0.00000
	0.000000	0.000000	-0.115598	-0.00005	0.00007	0.00000
	0.000000	0.000000	-0.115618	-0.00005	0.00007	0.00000
43	0.000000	0.000000	-0.105696	-0.00002	0.00008	0.00000
	0.000000	0.000000	-0.105453	-0.00002	0.00008	0.00000
	0.000000	0.000000	-0.105405	-0.00002	0.00008	0.00000
	0.000000	0.000000	-0.105162	-0.00002	0.00008	0.00000
	0.000000	0.000000	-0.107358	-0.00002	0.00010	0.00000
	0.000000	0.000000	-0.107114	-0.00002	0.00010	0.00000
	0.000000	0.000000	-0.107067	-0.00002	0.00010	0.00000
	0.000000	0.000000	-0.106823	-0.00002	0.00010	0.00000
	0.000000	0.000000	-0.102105	-0.00003	0.00004	0.00000
	0.000000	0.000000	-0.101861	-0.00003	0.00003	0.00000
	0.000000	0.000000	-0.101814	-0.00003	0.00003	0.00000
	0.000000	0.000000	-0.101570	-0.00003	0.00003	0.00000
	0.000000	0.000000	-0.103766	-0.00003	0.00006	0.00000
	0.000000	0.000000	-0.103522	-0.00003	0.00005	0.00000
	0.000000	0.000000	-0.103475	-0.00003	0.00005	0.00000
	0.000000	0.000000	-0.103231	-0.00003	0.00005	0.00000
44	0.000000	0.000000	-0.091662	0.00000	-0.00002	0.00000
	0.000000	0.000000	-0.092260	0.00000	-0.00003	0.00000
	0.000000	0.000000	-0.092383	0.00000	-0.00003	0.00000
	0.000000	0.000000	-0.092981	0.00000	-0.00003	0.00000
	0.000000	0.000000	-0.087589	-0.00001	-0.00001	0.00000
	0.000000	0.000000	-0.088187	-0.00001	-0.00001	0.00000
	0.000000	0.000000	-0.088310	0.00000	-0.00001	0.00000
	0.000000	0.000000	-0.088907	0.00000	-0.00001	0.00000
	0.000000	0.000000	-0.100462	0.00001	-0.00006	0.00000
	0.000000	0.000000	-0.101060	0.00001	-0.00007	0.00000
	0.000000	0.000000	-0.101183	0.00001	-0.00007	0.00000
	0.000000	0.000000	-0.101781	0.00001	-0.00007	0.00000
	0.000000	0.000000	-0.096389	0.00001	-0.00004	0.00000
	0.000000	0.000000	-0.096987	0.00001	-0.00005	0.00000
	0.000000	0.000000	-0.097110	0.00001	-0.00005	0.00000
	0.000000	0.000000	-0.097707	0.00001	-0.00005	0.00000
45	0.000000	0.000000	-0.095105	-0.00002	0.00006	0.00000
	0.000000	0.000000	-0.095698	-0.00002	0.00006	0.00000
	0.000000	0.000000	-0.095834	-0.00002	0.00006	0.00000
	0.000000	0.000000	-0.096428	-0.00002	0.00006	0.00000
	0.000000	0.000000	-0.091061	-0.00003	0.00007	0.00000
	0.000000	0.000000	-0.091655	-0.00003	0.00007	0.00000
	0.000000	0.000000	-0.091791	-0.00003	0.00007	0.00000
	0.000000	0.000000	-0.092385	-0.00003	0.00007	0.00000
	0.000000	0.000000	-0.103832	0.00001	0.00003	0.00000
	0.000000	0.000000	-0.104426	0.00001	0.00003	0.00000
	0.000000	0.000000	-0.104562	0.00001	0.00003	0.00000
	0.000000	0.000000	-0.105155	0.00001	0.00003	0.00000
	0.000000	0.000000	-0.099789	-0.00001	0.00005	0.00000
	0.000000	0.000000	-0.100382	0.00000	0.00005	0.00000
	0.000000	0.000000	-0.100518	0.00000	0.00004	0.00000
	0.000000	0.000000	-0.101112	0.00000	0.00004	0.00000
46	0.000000	0.000000	-0.134829	-0.00010	0.00005	0.00000
	0.000000	0.000000	-0.134051	-0.00009	0.00005	0.00000
	0.000000	0.000000	-0.133880	-0.00009	0.00004	0.00000
	0.000000	0.000000	-0.133103	-0.00009	0.00004	0.00000
	0.000000	0.000000	-0.140122	-0.00010	0.00008	0.00000
	0.000000	0.000000	-0.139345	-0.00010	0.00008	0.00000
	0.000000	0.000000	-0.139173	-0.00010	0.00008	0.00000
	0.000000	0.000000	-0.138396	-0.00010	0.00007	0.00000
	0.000000	0.000000	-0.123403	-0.00008	-0.00002	0.00000
	0.000000	0.000000	-0.122625	-0.00008	-0.00003	0.00000
	0.000000	0.000000	-0.122454	-0.00008	-0.00003	0.00000
	0.000000	0.000000	-0.121676	-0.00008	-0.00003	0.00000
	0.000000	0.000000	-0.128696	-0.00009	0.00001	0.00000
	0.000000	0.000000	-0.127919	-0.00009	0.00001	0.00000
	0.000000	0.000000	-0.127747	-0.00009	0.00001	0.00000
	0.000000	0.000000	-0.126970	-0.00008	0.00000	0.00000
47	0.000000	0.000000	-0.128470	0.00000	-0.00015	0.00000
	0.000000	0.000000	-0.128492	0.00000	-0.00015	0.00000
	0.000000	0.000000	-0.128500	0.00000	-0.00015	0.00000
	0.000000	0.000000	-0.128523	0.00000	-0.00015	0.00000
	0.000000	0.000000	-0.128314	0.00000	-0.00016	0.00000
	0.000000	0.000000	-0.128336	0.00000	-0.00016	0.00000
	0.000000	0.000000	-0.128344	0.00000	-0.00016	0.00000
	0.000000	0.000000	-0.128367	0.00000	-0.00016	0.00000
	0.000000	0.000000	-0.128795	0.00000	-0.00014	0.00000
	0.000000	0.000000	-0.128818	0.00000	-0.00013	0.00000
	0.000000	0.000000	-0.128826	0.00000	-0.00013	0.00000
	0.000000	0.000000	-0.128848	0.00000	-0.00013	0.00000
	0.000000	0.000000	-0.128639	0.00000	-0.00014	0.00000
	0.000000	0.000000	-0.128661	0.00000	-0.00014	0.00000

48	0.000000	0.000000	-0.128670	0.00000	-0.00014	0.00000
	0.000000	0.000000	-0.128692	0.00000	-0.00014	0.00000
	0.000000	0.000000	-0.125507	0.00002	0.00011	0.00000
	0.000000	0.000000	-0.125430	0.00002	0.00011	0.00000
	0.000000	0.000000	-0.125415	0.00002	0.00011	0.00000
	0.000000	0.000000	-0.125338	0.00002	0.00011	0.00000
	0.000000	0.000000	-0.126027	0.00002	0.00010	0.00000
	0.000000	0.000000	-0.125951	0.00002	0.00010	0.00000
	0.000000	0.000000	-0.125935	0.00002	0.00010	0.00000
	0.000000	0.000000	-0.125859	0.00002	0.00010	0.00000
	0.000000	0.000000	-0.124398	0.00003	0.00012	0.00000
	0.000000	0.000000	-0.124322	0.00003	0.00012	0.00000
	0.000000	0.000000	-0.124306	0.00003	0.00012	0.00000
	0.000000	0.000000	-0.124229	0.00003	0.00012	0.00000
	0.000000	0.000000	-0.124919	0.00003	0.00011	0.00000
	0.000000	0.000000	-0.124842	0.00003	0.00011	0.00000
0.000000	0.000000	-0.124826	0.00003	0.00011	0.00000	
0.000000	0.000000	-0.124750	0.00003	0.00011	0.00000	
49	0.000000	0.000000	-0.124862	0.00003	-0.00011	0.00000
	0.000000	0.000000	-0.124941	0.00003	-0.00011	0.00000
	0.000000	0.000000	-0.124959	0.00003	-0.00011	0.00000
	0.000000	0.000000	-0.125039	0.00003	-0.00011	0.00000
	0.000000	0.000000	-0.124322	0.00003	-0.00012	0.00000
	0.000000	0.000000	-0.124401	0.00003	-0.00012	0.00000
	0.000000	0.000000	-0.124419	0.00003	-0.00012	0.00000
	0.000000	0.000000	-0.124498	0.00003	-0.00012	0.00000
	0.000000	0.000000	-0.126013	0.00002	-0.00010	0.00000
	0.000000	0.000000	-0.126092	0.00002	-0.00010	0.00000
	0.000000	0.000000	-0.126110	0.00002	-0.00010	0.00000
	0.000000	0.000000	-0.126189	0.00002	-0.00010	0.00000
	0.000000	0.000000	-0.125472	0.00002	-0.00011	0.00000
	0.000000	0.000000	-0.125551	0.00002	-0.00011	0.00000
	0.000000	0.000000	-0.125569	0.00002	-0.00011	0.00000
	0.000000	0.000000	-0.125649	0.00002	-0.00011	0.00000
50	0.000000	0.000000	-0.129492	0.00000	0.00014	0.00000
	0.000000	0.000000	-0.129491	0.00000	0.00014	0.00000
	0.000000	0.000000	-0.129491	0.00000	0.00014	0.00000
	0.000000	0.000000	-0.129490	0.00000	0.00014	0.00000
	0.000000	0.000000	-0.129501	0.00000	0.00013	0.00000
	0.000000	0.000000	-0.129500	0.00000	0.00013	0.00000
	0.000000	0.000000	-0.129500	0.00000	0.00013	0.00000
	0.000000	0.000000	-0.129499	0.00000	0.00013	0.00000
	0.000000	0.000000	-0.129473	0.00000	0.00015	0.00000
	0.000000	0.000000	-0.129472	0.00001	0.00015	0.00000
	0.000000	0.000000	-0.129472	0.00001	0.00015	0.00000
	0.000000	0.000000	-0.129471	0.00001	0.00015	0.00000
	0.000000	0.000000	-0.129483	0.00000	0.00015	0.00000
	0.000000	0.000000	-0.129482	0.00000	0.00015	0.00000
	0.000000	0.000000	-0.129482	0.00000	0.00015	0.00000
	0.000000	0.000000	-0.129481	0.00000	0.00015	0.00000
51	0.000000	0.000000	-0.139817	0.00009	0.00001	0.00000
	0.000000	0.00				

	0.000000	0.000000	-0.162228	0.00002	-0.00004	0.00000
64	0.000000	0.000000	-0.165167	-0.00002	-0.00007	0.00000
	0.000000	0.000000	-0.165273	-0.00002	-0.00007	0.00000
	0.000000	0.000000	-0.165293	-0.00002	-0.00007	0.00000
	0.000000	0.000000	-0.165398	-0.00002	-0.00007	0.00000
	0.000000	0.000000	-0.164446	-0.00002	-0.00006	0.00000
	0.000000	0.000000	-0.164551	-0.00002	-0.00006	0.00000
	0.000000	0.000000	-0.164571	-0.00002	-0.00006	0.00000
	0.000000	0.000000	-0.164677	-0.00002	-0.00006	0.00000
	0.000000	0.000000	-0.166734	-0.00002	-0.00009	0.00000
	0.000000	0.000000	-0.166840	-0.00002	-0.00009	0.00000
	0.000000	0.000000	-0.166860	-0.00002	-0.00009	0.00000
	0.000000	0.000000	-0.166965	-0.00002	-0.00009	0.00000
	0.000000	0.000000	-0.166013	-0.00002	-0.00008	0.00000
	0.000000	0.000000	-0.166118	-0.00002	-0.00008	0.00000
	0.000000	0.000000	-0.166138	-0.00002	-0.00008	0.00000
	0.000000	0.000000	-0.166244	-0.00002	-0.00009	0.00000
65	0.000000	0.000000	-0.151225	-0.00005	-0.00006	0.00000
	0.000000	0.000000	-0.151285	-0.00005	-0.00006	0.00000
	0.000000	0.000000	-0.151296	-0.00005	-0.00006	0.00000
	0.000000	0.000000	-0.151356	-0.00005	-0.00006	0.00000
	0.000000	0.000000	-0.150815	-0.00005	-0.00005	0.00000
	0.000000	0.000000	-0.150875	-0.00005	-0.00005	0.00000
	0.000000	0.000000	-0.150886	-0.00005	-0.00005	0.00000
	0.000000	0.000000	-0.150946	-0.00005	-0.00005	0.00000
	0.000000	0.000000	-0.152114	-0.00005	-0.00008	0.00000
	0.000000	0.000000	-0.152174	-0.00005	-0.00008	0.00000
	0.000000	0.000000	-0.152185	-0.00005	-0.00008	0.00000
	0.000000	0.000000	-0.152246	-0.00005	-0.00009	0.00000
	0.000000	0.000000	-0.151704	-0.00005	-0.00007	0.00000
	0.000000	0.000000	-0.151764	-0.00005	-0.00007	0.00000
	0.000000	0.000000	-0.151775	-0.00005	-0.00007	0.00000
	0.000000	0.000000	-0.151835	-0.00005	-0.00008	0.00000
66	0.000000	0.000000	-0.132931	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132936	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132940	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132946	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132892	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132898	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132902	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132908	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.133010	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.133016	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.133019	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.133025	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132972	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132978	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132981	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132987	-0.00002	0.00004	0.00000
67	0.000000	0.000000	-0.143918	-0.00004	-0.00007	0.00000
	0.000000	0.000000	-0.143792	-0.00004	-0.00007	0.00000
	0.000000					

	0.000000	0.000000	-0.132937	-0.00004	0.00002	0.00000
	0.000000	0.000000	-0.132893	-0.00004	0.00002	0.00000
	0.000000	0.000000	-0.132880	-0.00004	0.00002	0.00000
	0.000000	0.000000	-0.132835	-0.00003	0.00002	0.00000
	0.000000	0.000000	-0.131990	-0.00001	0.00002	0.00000
	0.000000	0.000000	-0.131946	-0.00001	0.00002	0.00000
	0.000000	0.000000	-0.131932	-0.00001	0.00002	0.00000
	0.000000	0.000000	-0.131888	0.00000	0.00002	0.00000
	0.000000	0.000000	-0.132289	-0.00002	0.00002	0.00000
	0.000000	0.000000	-0.132245	-0.00002	0.00002	0.00000
	0.000000	0.000000	-0.132232	-0.00002	0.00002	0.00000
	0.000000	0.000000	-0.132188	-0.00001	0.00002	0.00000
70	0.000000	0.000000	-0.143111	-0.00004	0.00007	0.00000
	0.000000	0.000000	-0.143140	-0.00004	0.00007	0.00000
	0.000000	0.000000	-0.143140	-0.00004	0.00007	0.00000
	0.000000	0.000000	-0.143169	-0.00004	0.00007	0.00000
	0.000000	0.000000	-0.142907	-0.00004	0.00006	0.00000
	0.000000	0.000000	-0.142936	-0.00004	0.00006	0.00000
	0.000000	0.000000	-0.142935	-0.00004	0.00006	0.00000
	0.000000	0.000000	-0.142964	-0.00004	0.00006	0.00000
	0.000000	0.000000	-0.143524	-0.00003	0.00008	0.00000
	0.000000	0.000000	-0.143553	-0.00003	0.00008	0.00000
	0.000000	0.000000	-0.143552	-0.00003	0.00008	0.00000
	0.000000	0.000000	-0.143581	-0.00003	0.00008	0.00000
	0.000000	0.000000	-0.143319	-0.00004	0.00007	0.00000
	0.000000	0.000000	-0.143348	-0.00003	0.00007	0.00000
	0.000000	0.000000	-0.143348	-0.00003	0.00007	0.00000
	0.000000	0.000000	-0.143377	-0.00003	0.00007	0.00000
71	0.000000	0.000000	-0.137517	-0.00002	0.00013	0.00000
	0.000000	0.000000	-0.137576	-0.00002	0.00013	0.00000
	0.000000	0.000000	-0.137588	-0.00002	0.00013	0.00000
	0.000000	0.000000	-0.137647	-0.00002	0.00013	0.00000
	0.000000	0.000000	-0.137112	-0.00002	0.00011	0.00000
	0.000000	0.000000	-0.137171	-0.00002	0.00012	0.00000
	0.000000	0.000000	-0.137183	-0.00002	0.00012	0.00000
	0.000000	0.000000	-0.137242	-0.00002	0.00012	0.00000
	0.000000	0.000000	-0.138376	-0.00002	0.00016	0.00000
	0.000000	0.000000	-0.138436	-0.00002	0.00016	0.00000
	0.000000	0.000000	-0.138447	-0.00002	0.00016	0.00000
	0.000000	0.000000	-0.138507	-0.00002	0.00017	0.00000
	0.000000	0.000000	-0.137972	-0.00002	0.00015	0.00000
	0.000000	0.000000	-0.138031	-0.00002	0.00015	0.00000
	0.000000	0.000000	-0.138043	-0.00002	0.00015	0.00000
	0.000000	0.000000	-0.138102	-0.00002	0.00015	0.00000
72	0.000000	0.000000	-0.149636	0.00002	0.00012	0.00000
	0.000000	0.000000	-0.149768	0.00002	0.00012	0.00000
	0.000000	0.000000	-0.149797	0.00002	0.00012	0.00000
	0.000000	0.000000	-0.149928	0.00002	0.00012	0.00000
	0.000000	0.000000	-0.148735	0.00001	0.00011	0.00000
	0.000000					

36

80	0.000000	0.000000	-0.160864	-0.00006	-0.00032	0.00000
	0.000000	0.000000	-0.160996	-0.00006	-0.00032	0.00000
	0.000000	0.000000	-0.161024	-0.00006	-0.00032	0.00000
	0.000000	0.000000	-0.161156	-0.00006	-0.00033	0.00000
	0.000000	0.000000	-0.159959	-0.00006	-0.00029	0.00000
	0.000000	0.000000	-0.160091	-0.00006	-0.00030	0.00000
	0.000000	0.000000	-0.160119	-0.00006	-0.00030	0.00000
	0.000000	0.000000	-0.160252	-0.00006	-0.00030	0.00000
	0.000000	0.000000	-0.162825	-0.00006	-0.00038	0.00000
	0.000000	0.000000	-0.162958	-0.00006	-0.00038	0.00000
	0.000000	0.000000	-0.162986	-0.00006	-0.00038	0.00000
	0.000000	0.000000	-0.163118	-0.00006	-0.00039	0.00000
	0.000000	0.000000	-0.161921	-0.00006	-0.00035	0.00000
	0.000000	0.000000	-0.162053	-0.00006	-0.00036	0.00000
	0.000000	0.000000	-0.162081	-0.00006	-0.00036	0.00000
	0.000000	0.000000	-0.162213	-0.00006	-0.00036	0.00000
81	0.000000	0.000000	-0.173526	-0.00002	-0.00038	0.00000
	0.000000	0.000000	-0.173591	-0.00002	-0.00039	0.00000
	0.000000	0.000000	-0.173604	-0.00002	-0.00039	0.00000
	0.000000	0.000000	-0.173669	-0.00002	-0.00039	0.00000
	0.000000	0.000000	-0.173082	-0.00002	-0.00036	0.00000
	0.000000	0.000000	-0.173147	-0.00002	-0.00036	0.00000
	0.000000	0.000000	-0.173160	-0.00002	-0.00036	0.00000
	0.000000	0.000000	-0.173225	-0.00002	-0.00037	0.00000
	0.000000	0.000000	-0.174488	-0.00002	-0.00044	0.00000
	0.000000	0.000000	-0.174553	-0.00002	-0.00044	0.00000
	0.000000	0.000000	-0.174566	-0.00002	-0.00044	0.00000
	0.000000	0.000000	-0.174631	-0.00002	-0.00045	0.00000
	0.000000	0.000000	-0.174044	-0.00002	-0.00041	0.00000
	0.000000	0.000000	-0.174109	-0.00002	-0.00042	0.00000
	0.000000	0.000000	-0.174122	-0.00002	-0.00042	0.00000
	0.000000	0.000000	-0.174187	-0.00002	-0.00042	0.00000
82	0.000000	0.000000	-0.176319	0.00000	-0.00041	0.00000
	0.000000	0.000000	-0.176342	0.00000	-0.00041	0.00000
	0.000000	0.000000	-0.176346	0.00000	-0.00041	0.00000
	0.000000	0.000000	-0.176369	0.00000	-0.00041	0.00000
	0.000000	0.000000	-0.176163	0.00000	-0.00039	0.00000
	0.000000	0.000000	-0.176185	0.00000	-0.00039	0.00000
	0.000000	0.000000	-0.176190	0.00000	-0.00039	0.00000
	0.000000	0.000000	-0.176212	0.00000	-0.00040	0.00000
	0.000000	0.000000	-0.176659	0.00000	-0.00044	0.00000
	0.000000	0.000000	-0.176682	0.00000	-0.00044	0.00000
	0.000000	0.000000	-0.176686	0.00000	-0.00044	0.00000
	0.000000	0.000000	-0.176708	0.00000	-0.00045	0.00000
	0.000000	0.000000	-0.176502	0.00000	-0.00043	0.00000
	0.000000	0.000000	-0.176525	0.00000	-0.00043	0.00000
	0.000000	0.000000	-0.176529	0.00000	-0.00043	0.00000
	0.000000	0.000000	-0.176552	0.00000	-0.00043	0.00000
83	0.000000	0.000000	-0.173473	0.00002	-0.00039	0.00000
	0.000000	0.000000	-0.173455	0.00002	-0.00039	0.00000
	0.000000	0.000000	-0.173452	0.00002	-0.00039	0.00000
	0.000000	0.00				

	0.000000	0.000000	-0.151995	0.00001	-0.00015	0.00000
	0.000000	0.000000	-0.151957	0.00001	-0.00015	0.00000
	0.000000	0.000000	-0.151806	0.00001	-0.00015	0.00000
	0.000000	0.000000	-0.148931	0.00001	-0.00012	0.00000
	0.000000	0.000000	-0.148780	0.00001	-0.00012	0.00000
	0.000000	0.000000	-0.148742	0.00001	-0.00012	0.00000
	0.000000	0.000000	-0.148591	0.00001	-0.00012	0.00000
	0.000000	0.000000	-0.149964	0.00001	-0.00013	0.00000
	0.000000	0.000000	-0.149814	0.00001	-0.00013	0.00000
	0.000000	0.000000	-0.149775	0.00001	-0.00013	0.00000
	0.000000	0.000000	-0.149624	0.00001	-0.00013	0.00000
86	0.000000	0.000000	-0.137947	-0.00002	-0.00015	0.00000
	0.000000	0.000000	-0.137874	-0.00002	-0.00015	0.00000
	0.000000	0.000000	-0.137857	-0.00002	-0.00015	0.00000
	0.000000	0.000000	-0.137784	-0.00002	-0.00015	0.00000
	0.000000	0.000000	-0.138446	-0.00002	-0.00017	0.00000
	0.000000	0.000000	-0.138373	-0.00002	-0.00016	0.00000
	0.000000	0.000000	-0.138356	-0.00002	-0.00016	0.00000
	0.000000	0.000000	-0.138283	-0.00002	-0.00016	0.00000
	0.000000	0.000000	-0.136887	-0.00002	-0.00012	0.00000
	0.000000	0.000000	-0.136814	-0.00002	-0.00011	0.00000
	0.000000	0.000000	-0.136796	-0.00002	-0.00011	0.00000
	0.000000	0.000000	-0.136723	-0.00002	-0.00011	0.00000
	0.000000	0.000000	-0.137386	-0.00002	-0.00013	0.00000
	0.000000	0.000000	-0.137313	-0.00002	-0.00013	0.00000
	0.000000	0.000000	-0.137295	-0.00002	-0.00013	0.00000
	0.000000	0.000000	-0.137222	-0.00002	-0.00013	0.00000
87	-0.020060	-0.009975	-0.148760	0.00017	0.00041	0.00001
	-0.015302	-0.007606	-0.148629	0.00016	0.00043	0.00001
	-0.014308	-0.007236	-0.148589	0.00016	0.00043	0.00001
	-0.009550	-0.004867	-0.148459	0.00016	0.00044	0.00001
	-0.052409	-0.025970	-0.149655	0.00022	0.00033	0.00003
	-0.047650	-0.023601	-0.149525	0.00022	0.00034	0.00003
	-0.046657	-0.023231	-0.149485	0.00022	0.00034	0.00003
	-0.041899	-0.020862	-0.149355	0.00021	0.00035	0.00003
	0.049045	0.024410	-0.146869	0.00006	0.00060	-0.00003
	0.053804	0.026779	-0.146739	0.00005	0.00061	-0.00004
	0.054797	0.027149	-0.146698	0.00005	0.00062	-0.00004
	0.059556	0.029518	-0.146568	0.00004	0.00063	-0.00004
	0.016697	0.008415	-0.147765	0.00011	0.00051	-0.00001
	0.021455	0.010784	-0.147635	0.00010	0.00053	-0.00001
	0.022449	0.011154	-0.147594	0.00010	0.00053	-0.00001
	0.027207	0.013523	-0.147464	0.00009	0.00054	-0.00002
88	-0.020064	-0.004974	-0.139790	0.00004	-0.00009	0.00001
	-0.015305	-0.003787	-0.139787	0.00003	-0.00008	0.00001
	-0.014312	-0.003632	-0.139781	0.00003	-0.00008	0.00001
	-0.009553	-0.002445	-0.139778	0.00003	-0.00007	0.00001
	-0.052411	-0.012974	-0.139811	0.00007	-0.00015	0.00003
	-0.047653	-0.011787	-0.139809	0.00007	-0.00014	0.00003
	-0.046659	-0.011632	-0.139802	0.00007	-0.00014	0.00003
	-0.041901	-0.010445	-0.139799	0.00006	-0.00013	0.00003
	0.049043	0.012232	-0.139749	-0.00003	0.00004	-0.00003
	0.053802	0.013419	-0.139746	-0.00004	0.00005	-0.00004
	0.054795	0.013574	-0.139740	-0.00004	0.00005	-0.00004
	0.059553	0.014761	-0.139737	-0.00004	0.00006	-0.00004
	0.016696	0.004232	-0.139770	0.00000	-0.00002	-0.00001
	0.021454	0.005419	-0.139768	0.00000	-0.00001	-0.00001
	0.022448	0.005574	-0.139761	0.00000	-0.00001	-0.00001
	0.027206	0.006761	-0.139759	-0.00001	0.00000	-0.00002
89	-0.020070	0.000018	-0.133524	0.00003	-0.00016	0.00001
	-0.015312	0.000023	-0.133488	0.00003	-0.00015	0.00001
	-0.014309	-0.000065	-0.133476	0.00003	-0.00015	0.00001
	-0.009551	-0.000060	-0.133440	0.00003	-0.00014	0.00001
	-0.052415	0.000016	-0.133768	0.00003	-0.00022	0.00004
	-0.047657	0.000020	-0.133732	0.00003	-0.00021	0.00003
	-0.046655	-0.000067	-0.133720	0.00003	-0.00021	0.00003
	-0.041897	-0.000063	-0.133684	0.00003	-0.00020	0.00003
	0.049034	0.000074	-0.133003	0.00003	-0.00003	-0.00003
	0.053792	0.000078	-0.132967	0.00003	-0.00003	-0.00004
	0.054795	-0.000010	-0.132955	0.00003	-0.00002	-0.00004
	0.059553	-0.000005	-0.132920	0.00003	-0.00001	-0.00004
	0.016689	0.000071	-0.133247	0.00003	-0.00009	-0.00001
	0.021447	0.000075	-0.133211	0.00003	-0.00008	-0.00002
	0.022449	-0.000012	-0.133199	0.00003	-0.00008	-0.00002
	0.027207	-0.000008	-0.133164	0.00003	-0.00007	-0.00002
90	-0.020076	0.004260	-0.133478	0.00002	0.00009	0.00001
	-0.015318	0.003263	-0.133454	0.00002	0.00009	0.00001
	-0.014309	0.002989	-0.133445	0.00002	0.00010	0.00001
	-0.009551	0.001992	-0.133420	0.00003	0.00010	0.00001
	-0.052419	0.011042	-0.133643	0.00000	0.00003	0.00004
	-0.047661	0.010044	-0.133619	0.00000	0.00004	0.00003
	-0.046652	0.009771	-0.133609	0.00000	0.00004	0.00003
	-0.041894	0.008773	-0.133585	0.00000	0.00005	0.00003
	0.049028	-0.010265	-0.133124	0.00007	0.00021	-0.00003
	0.053786	-0.011263	-0.133099	0.00007	0.00022	-0.00004
	0.054796	-0.011536	-0.133090	0.00007	0.00022	-0.00004

	0.059553	-0.012534	-0.133066	0.00008	0.00023	-0.00004
	0.016685	-0.003484	-0.133289	0.00005	0.00015	-0.00001
	0.021443	-0.004482	-0.133264	0.00005	0.00016	-0.00001
	0.022453	-0.004755	-0.133255	0.00005	0.00016	-0.00002
	0.027210	-0.005753	-0.133231	0.00005	0.00017	-0.00002
91	-0.020086	0.009292	-0.139960	-0.00002	0.00001	0.00001
	-0.015329	0.007114	-0.139913	-0.00001	0.00002	0.00001
	-0.014310	0.006573	-0.139899	-0.00001	0.00002	0.00001
	-0.009553	0.004395	-0.139853	0.00000	0.00003	0.00001
	-0.052424	0.024053	-0.140274	-0.00008	-0.00005	0.00003
	-0.047667	0.021875	-0.140227	-0.00007	-0.00004	0.00003
	-0.046649	0.021334	-0.140213	-0.00007	-0.00004	0.00003
	-0.041892	0.019156	-0.140167	-0.00006	-0.00003	0.00003
	0.049021	-0.022408	-0.139280	0.00011	0.00014	-0.00003
	0.053778	-0.024586	-0.139234	0.00012	0.00015	-0.00004
	0.054797	-0.025127	-0.139220	0.00012	0.00015	-0.00004
	0.059554	-0.027305	-0.139174	0.00013	0.00016	-0.00004
	0.016683	-0.007647	-0.139594	0.00005	0.00008	-0.00001
	0.021440	-0.009825	-0.139548	0.00006	0.00009	-0.00001
	0.022458	-0.010366	-0.139534	0.00006	0.00009	-0.00001
	0.027215	-0.012544	-0.139488	0.00007	0.00010	-0.00002
92	-0.020087	0.014304	-0.147926	0.00009	-0.00052	0.00001
	-0.015330	0.010947	-0.147957	0.00010	-0.00051	0.00001
	-0.014311	0.010148	-0.147957	0.00011	-0.00051	0.00001
	-0.009555	0.006791	-0.147988	0.00012	-0.00049	0.00001
	-0.052426	0.037050	-0.147708	0.00002	-0.00061	0.00003
	-0.047669	0.033694	-0.147739	0.00003	-0.00060	0.00003
	-0.046651	0.032895	-0.147739	0.00003	-0.00059	0.00003
	-0.041894	0.029538	-0.147770	0.00004	-0.00058	0.00003
	0.049019	-0.034566	-0.148367	0.00025	-0.00034	-0.00003
	0.053776	-0.037923	-0.148398	0.00026	-0.00032	-0.00004
	0.054794	-0.038722	-0.148398	0.00027	-0.00032	-0.00004
	0.059551	-0.042079	-0.148429	0.00028	-0.00031	-0.00004
	0.016679	-0.011820	-0.148149	0.00018	-0.00042	-0.00001
	0.021436	-0.015177	-0.148180	0.00019	-0.00041	-0.00001
	0.022455	-0.015975	-0.148180	0.00019	-0.00041	-0.00001
	0.027212	-0.019332	-0.148211	0.00020	-0.00039	-0.00002
93	-0.014940	0.014379	-0.146031	-0.00003	-0.00093	0.00001
	-0.011398	0.011004	-0.146099	-0.00002	-0.00093	0.00001
	-0.010632	0.010203	-0.146112	-0.00002	-0.00093	0.00001
	-0.007090	0.006829	-0.146179	-0.00001	-0.00092	0.00001
	-0.039038	0.037248	-0.145570	-0.00009	-0.00097	0.00004
	-0.035496	0.033873	-0.145638	-0.00008	-0.00096	0.00003
	-0.034730	0.033073	-0.145651	-0.00008	-0.00096	0.00003
	-0.031189	0.029698	-0.145719	-0.00007	-0.00096	0.00003
	0.036490	-0.034750	-0.147010	0.00009	-0.00086	-0.00003
	0.040031	-0.038125	-0.147077	0.00010	-0.00086	-0.00004
	0.040797	-0.038925	-0.147090	0.00010	-0.00085	-0.00004
	0.044339	-0.042300	-0.147158	0.00011	-0.00085	-0.00004
	0.012392	-0.011881	-0.146549	0.00003	-0.00089	-0.00001
	0.015933	-0.015255	-0.146616	0.00004	-0.00089	-0.00001
	0.016699	-0.016056	-0.146630	0.00004	-0.00089	-0.00002
	0.020241	-0.019431	-0.146697	0.00005	-0.00088	-0.00002
94	-0.009740	0.014382	-0.139477	-0.00016	-0.00066	0.00001
	-0.007431	0.011007	-0.139477	-0.00015	-0.00066	0.00001
	-0.006913	0.010206	-0.139478	-0.00014	-0.00066	0.00001
	-0.004604	0.006831	-0.139478	-0.00013	-0.00066	0.00001
	-0.025460	0.037252	-0.139479	-0.00023	-0.00068	0.00004
	-0.023151	0.033877	-0.139479	-0.00022	-0.00068	0.00003
	-0.022634	0.033076	-0.139481	-0.00022	-0.00068	0.00003
	-0.020325	0.029701	-0.139481	-0.00021	-0.00067	0.00003
	0.023768	-0.034748	-0.139492	0.00000	-0.00063	-0.00003
	0.026077	-0.038123	-0.139492	0.00001	-0.00063	-0.00004
	0.026595	-0.038923	-0.139494	0.00001	-0.00063	-0.00004
	0.028904	-0.042298	-0.139494	0.00002	-0.00063	-0.00004
	0.008048	-0.011878	-0.139495	-0.00007	-0.00065	-0.00001
	0.010357	-0.015253	-0.139495	-0.00006	-0.00065	-0.00002
	0.010875	-0.016053	-0.139496	-0.00006	-0.00065	-0.00002
	0.013184	-0.019428	-0.139496	-0.00005	-0.00064	-0.00002
95	-0.009716	0.004253	-0.133859	-0.00002	0.00048	0.00001
	-0.007407	0.003255	-0.133942	-0.00001	0.00048	0.00001
	-0.006897	0.002989	-0.133961	-0.00001	0.00048	0.00001
	-0.004589	0.001992	-0.134045	-0.00001	0.00049	0.00001
	-0.025449	0.011039	-0.133289	-0.00003	0.00047	0.00004
	-0.023141	0.010041	-0.133373	-0.00003	0.00047	0.00003
	-0.022631	0.009775	-0.133391	-0.00003	0.00047	0.00003
	-0.020322	0.008777	-0.133475	-0.00003	0.00048	0.00003
	0.023779	-0.010270	-0.135072	0.00002	0.00050	-0.00004
	0.026087	-0.011268	-0.135156	0.00003	0.00050	-0.00004
	0.026597	-0.011534	-0.135175	0.00003	0.00050	-0.00004
	0.028906	-0.012531	-0.135258	0.00003	0.00050	-0.00004
	0.008046	-0.003484	-0.134502	0.00000	0.00049	-0.00001
	0.010354	-0.004482	-0.134586	0.00001	0.00049	-0.00002
	0.010864	-0.004748	-0.134605	0.00001	0.00049	-0.00002
	0.013173	-0.005746	-0.134688	0.00001	0.00050	-0.00002

96	-0.014920	0.004260	-0.135505	-0.00001	0.00051	0.00001
	-0.011379	0.003263	-0.135612	-0.00001	0.00051	0.00001
	-0.010624	0.002990	-0.135635	-0.00001	0.00051	0.00001
	-0.007082	0.001992	-0.135741	0.00000	0.00052	0.00001
	-0.039027	0.011042	-0.134780	-0.00003	0.00050	0.00004
	-0.035485	0.010044	-0.134887	-0.00002	0.00050	0.00003
	-0.034730	0.009772	-0.134910	-0.00002	0.00050	0.00003
	-0.031189	0.008774	-0.135016	-0.00002	0.00050	0.00003
	0.036503	-0.010266	-0.137051	0.00003	0.00054	-0.00004
	0.040045	-0.011263	-0.137158	0.00003	0.00054	-0.00004
	0.040799	-0.011536	-0.137181	0.00003	0.00054	-0.00004
	0.044341	-0.012534	-0.137287	0.00003	0.00054	-0.00004
	0.012397	-0.003484	-0.136326	0.00001	0.00053	-0.00001
	0.015938	-0.004482	-0.136433	0.00001	0.00053	-0.00002
	0.016693	-0.004754	-0.136456	0.00001	0.00053	-0.00002
	0.020235	-0.005752	-0.136563	0.00002	0.00053	-0.00002
97	-0.014922	0.000017	-0.136396	0.00000	-0.00053	0.00001
	-0.011380	0.000021	-0.136292	0.00000	-0.00053	0.00001
	-0.010626	-0.000064	-0.136270	0.00000	-0.00053	0.00001
	-0.007084	-0.000060	-0.136165	0.00000	-0.00052	0.00001
	-0.039027	0.000015	-0.137107	0.00000	-0.00054	0.00004
	-0.035485	0.000019	-0.137003	0.00000	-0.00054	0.00003
	-0.034730	-0.000066	-0.136981	0.00000	-0.00054	0.00003
	-0.031188	-0.000062	-0.136877	0.00000	-0.00054	0.00003
	0.036503	0.000073	-0.134879	0.00000	-0.00050	-0.00004
	0.040045	0.000077	-0.134775	0.00000	-0.00050	-0.00004
	0.040800	-0.000008	-0.134753	0.00000	-0.00050	-0.00004
	0.044342	-0.000004	-0.134648	0.00000	-0.00050	-0.00004
	0.012399	0.000071	-0.135590	0.00000	-0.00051	-0.00001
	0.015940	0.000075	-0.135486	0.00000	-0.00051	-0.00002
	0.016695	-0.000010	-0.135464	0.00000	-0.00051	-0.00002
	0.020237	-0.000006	-0.135360	0.00000	-0.00051	-0.00002
98	-0.009714	0.000012	-0.134533	0.00000	-0.00049	0.00001
	-0.007405	0.000015	-0.134452	-0.00001	-0.00049	0.00001
	-0.006898	-0.000050	-0.134435	0.00000	-0.00049	0.00001
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	-0.023139	0.000014	-0.135004	0.00000	-0.00050	0.00003
	-0.022632	-0.000052	-0.134987	0.00000	-0.00050	0.00003
	-0.020324	-0.000049	-0.134906	0.00000	-0.00050	0.00003
	0.023781	0.000056	-0.133357	-0.00001	-0.00047	-0.00004
	0.026090	0.000060	-0.133276	-0.00001	-0.00047	-0.00004
	0.026597	-0.000006	-0.133260	-0.00001	-0.00047	-0.00004
	0.028906	-0.000003	-0.133179	-0.00001	-0.00047	-0.00004
	0.008047	0.000055	-0.133909	-0.00001	-0.00048	-0.00001
	0.010356	0.000058	-0.133828	-0.00001	-0.00048	-0.00002
	0.010863	-0.000008	-0.133812	-0.00001	-0.00048	-0.00002
	0.013172	-0.000004	-0.133730	-0.00001	-0.00048	-0.00002
99	-0.009709	-0.010045	-0.138497	-0.00008	0.00065	0.00001
	-0.007400	-0.007659	-0.138520	-0.00009	0.00065	0.00001
	-0.006899	-0.007280	-0.138529	-0.00009	0.00065	0.00001
	-0.004590	-0.004894	-0.138552	-0.00010	0.00065	0.00001
	-0.025442	-0.026164	-0.138333	-0.00003	0.00063	0.00004
	-0.023133	-0.023778	-0.138357	-0.00004	0.00063	0.00003
	-0.022632	-0.023398	-0.138365	-0.00004	0.00063	0.00003
	-0.020323	-0.021012	-0.138389	-0.00004	0.00064	0.00003
	0.023792	0.024596	-0.138837	-0.00019	0.00068	-0.00003
	0.026101	0.026982	-0.138860	-0.00020	0.00068	-0.00004
	0.026602	0.027361	-0.138869	-0.00020	0.00068	-0.00004
	0.028911	0.029747	-0.138892	-0.00021	0.00068	-0.00004
	0.008059	0.008477	-0.138674	-0.00014	0.00066	-0.00001
	0.010368	0.010863	-0.138697	-0.00015	0.00066	-0.00002
	0.010869	0.011243	-0.138706	-0.00015	0.00066	-0.00002
	0.013178	0.013629	-0.138729	-0.00015	0.00067	-0.00002
100	-0.014912	-0.010050	-0.146529	0.00003	0.00089	0.00001
	-0.011371	-0.007663	-0.146448	0.00002	0.00090	0.00001
	-0.010613	-0.007288	-0.146428	0.00002	0.00090	0.00001
	-0.007072	-0.004901	-0.146347	0.00002	0.00090	0.00001
	-0.039021	-0.026166	-0.147083	0.00006	0.00086	0.00004
	-0.035479	-0.023779	-0.147002	0.00006	0.00086	0.00003
	-0.034721	-0.023404	-0.146983	0.00006	0.00086	0.00003
	-0.031180	-0.021018	-0.146902	0.00005	0.00087	0.00003
	0.036508	0.024594	-0.145349	-0.00005	0.00096	-0.00003
	0.040049	0.026981	-0.145268	-0.00006	0.00097	-0.00004
	0.040807	0.027356	-0.145249	-0.00006	0.00097	-0.00004
	0.044349	0.029743	-0.145167	-0.00007	0.00097	-0.00004
	0.012399	0.008478	-0.145904	-0.00002	0.00093	-0.00001
	0.015941	0.010865	-0.145822	-0.00002	0.00093	-0.00001
	0.016699	0.011240	-0.145803	-0.00002	0.00094	-0.00002
	0.020240	0.013627	-0.145722	-0.00003	0.00094	-0.00002
101	-0.004838	0.000007	-0.152820	0.00001	-0.00085	0.00001
	-0.003684	0.000009	-0.152771	0.00001	-0.00085	0.00001
	-0.003417	-0.000037	-0.152760	0.00001	-0.00085	0.00001
	-0.002263	-0.000034	-0.152711	0.00001	-0.00085	0.00001
	-0.012720	0.000006	-0.153155	0.00001	-0.00086	0.00004
	-0.011566	0.000008	-0.153106	0.00001	-0.00086	0.00003

	-0.011298	-0.000038	-0.153096	0.00001	-0.00085	0.00003
	-0.010144	-0.000036	-0.153046	0.00001	-0.00085	0.00003
	0.011873	0.000040	-0.152109	0.00001	-0.00084	-0.00004
	0.013027	0.000042	-0.152060	0.00001	-0.00084	-0.00004
	0.013295	-0.000003	-0.152050	0.00001	-0.00084	-0.00004
	0.014449	-0.000001	-0.152000	0.00001	-0.00084	-0.00004
	0.003992	0.000039	-0.152445	0.00001	-0.00085	-0.00001
	0.005146	0.000041	-0.152395	0.00001	-0.00085	-0.00002
	0.005413	-0.000004	-0.152385	0.00001	-0.00085	-0.00002
	0.006567	-0.000002	-0.152336	0.00001	-0.00084	-0.00002
102	-0.004852	0.004255	-0.152277	0.00000	0.00084	0.00001
	-0.003697	0.003256	-0.152327	0.00000	0.00084	0.00001
	-0.003425	0.002991	-0.152339	0.00000	0.00085	0.00001
	-0.002271	0.001992	-0.152389	0.00000	0.00085	0.00001
	-0.012726	0.011039	-0.151935	-0.00002	0.00084	0.00004
	-0.011572	0.010041	-0.151985	-0.00002	0.00084	0.00003
	-0.011300	0.009775	-0.151997	-0.00002	0.00084	0.00003
	-0.010145	0.008777	-0.152047	-0.00001	0.00084	0.00003
	0.011862	-0.010268	-0.153001	0.00003	0.00085	-0.00004
	0.013017	-0.011266	-0.153051	0.00003	0.00085	-0.00004
	0.013289	-0.011532	-0.153063	0.00004	0.00085	-0.00004
	0.014444	-0.012530	-0.153113	0.00004	0.00086	-0.00004
	0.003988	-0.003484	-0.152659	0.00002	0.00085	-0.00001
	0.005142	-0.004482	-0.152709	0.00002	0.00085	-0.00002
	0.005414	-0.004748	-0.152721	0.00002	0.00085	-0.00002
	0.006569	-0.005746	-0.152771	0.00002	0.00085	-0.00002
103	0.000048	0.004270	-0.163417	0.00000	0.00085	0.00001
	0.000050	0.003272	-0.163412	0.00000	0.00085	0.00001
	0.000060	0.002998	-0.163411	0.00000	0.00085	0.00001
	0.000062	0.002000	-0.163407	0.00000	0.00085	0.00001
	0.000041	0.011047	-0.163445	-0.00002	0.00085	0.00004
	0.000043	0.010049	-0.163440	-0.00002	0.00085	0.00003
	0.000053	0.009775	-0.163439	-0.00002	0.00085	0.00003
	0.000055	0.008777	-0.163435	-0.00002	0.00085	0.00003
	-0.000064	-0.010270	-0.163346	0.00003	0.00085	-0.00004
	-0.000061	-0.011268	-0.163342	0.00003	0.00085	-0.00004
	-0.000052	-0.011542	-0.163341	0.00003	0.00085	-0.00004
	-0.000049	-0.012540	-0.163337	0.00004	0.00085	-0.00004
	-0.000071	-0.003493	-0.163374	0.00001	0.00085	-0.00001
	-0.000069	-0.004491	-0.163370	0.00002	0.00085	-0.00002
	-0.000059	-0.004765	-0.163369	0.00002	0.00085	-0.00002
	-0.000057	-0.005763	-0.163365	0.00002	0.00085	-0.00002
104	0.000000	0.000000	-0.164843	0.00001	-0.00086	0.00001
	0.000000	0.000000	-0.164850	0.00001	-0.00086	0.00001
	0.000000	0.000000	-0.164851	0.00001	-0.00086	0.00001
	0.000000	0.000000	-0.164858	0.00001	-0.00086	0.00001
	0.000000	0.000000	-0.164792	0.00001	-0.00086	0.00004
	0.000000	0.000000	-0.164799	0.00001	-0.00086	0.00003
	0.000000	0.000000	-0.164800	0.00001	-0.00086	0.00003
	0.000000	0.000000	-0.164807	0.00001	-0.00086	0.00003
	0.000000	0.000000	-0.164963	0.00001	-0.00086	-0.00004
	0.000000	0.000000	-0.164971	0.00001	-0.00086	-0.00004
	0.000000	0.000000	-0.164971	0.00001	-0.00086	-0.00004
	0.000000	0.000000	-0.164979	0.00001	-0.00086	-0.00004
	0.000000	0.000000	-0.164913	0.00001	-0.00086	-0.00001
	0.000000	0.000000	-0.164920	0.00001	-0.00086	-0.00002
	0.000000	0.000000	-0.164921	0.00001	-0.00086	-0.00002
	0.000000	0.000000	-0.164928	0.00001	-0.00086	-0.00002
105	0.004973	0.004277	-0.163829	-0.00005	0.00082	0.00001
	0.003831	0.003278	-0.163768	-0.00005	0.00082	0.00001
	0.003600	0.002987	-0.163754	-0.00005	0.00082	0.00001
	0.002458	0.001988	-0.163693	-0.00005	0.00082	0.00001
	0.012786	0.011048	-0.164247	-0.00007	0.00083	0.00004
	0.011645	0.010050	-0.164186	-0.00007	0.00083	0.00003
	0.011413	0.009758	-0.164172	-0.00007	0.00083	0.00003
	0.010271	0.008760	-0.164111	-0.00006	0.00083	0.00003
	-0.012057	-0.010246	-0.162919	-0.00002	0.00081	-0.00004
	-0.013198	-0.011245	-0.162857	-0.00002	0.00081	-0.00004
	-0.013430	-0.011536	-0.162844	-0.00002	0.00081	-0.00004
	-0.014571	-0.012535	-0.162783	-0.00001	0.00081	-0.00004
	-0.004244	-0.003475	-0.163337	-0.00003	0.00082	-0.00001
	-0.005385	-0.004473	-0.163275	-0.00003	0.00082	-0.00002
	-0.005617	-0.004765	-0.163262	-0.00003	0.00082	-0.00002
	-0.006758	-0.005763	-0.163201	-0.00003	0.00081	-0.00002
106	0.004966	-0.000009	-0.171717	-0.00001	-0.00087	0.00001
	0.003823	-0.000010	-0.171790	-0.00001	-0.00087	0.00001
	0.003587	-0.000064	-0.171804	-0.00001	-0.00087	0.00001
	0.002444	-0.000065	-0.171877	-0.00001	-0.00087	0.00001
	0.012782	-0.000012	-0.171217	-0.00001	-0.00086	0.00004
	0.011639	-0.000013	-0.171290	-0.00001	-0.00086	0.00003
	0.011402	-0.000066	-0.171303	-0.00001	-0.00086	0.00003
	0.010259	-0.000068	-0.171376	-0.00001	-0.00087	0.00003
	-0.012032	0.000084	-0.172808	-0.00001	-0.00088	-0.00004
	-0.013175	0.000083	-0.172881	-0.00001	-0.00088	-0.00004
	-0.013411	0.000030	-0.172895	-0.00001	-0.00088	-0.00004
	-0.014555	0.000029	-0.172968	-0.00001	-0.00088	-0.00004

	-0.004216	0.000082	-0.172308	-0.00001	-0.00087	-0.00001
	-0.005360	0.000080	-0.172381	-0.00001	-0.00088	-0.00002
	-0.005596	0.000027	-0.172395	-0.00001	-0.00088	-0.00002
	-0.006739	0.000026	-0.172468	-0.00001	-0.00088	-0.00002
107	0.009908	-0.000003	-0.178719	0.00012	-0.00076	0.00001
	0.007619	-0.000004	-0.178828	0.00012	-0.00076	0.00001
	0.007143	-0.000096	-0.178849	0.00012	-0.00076	0.00001
	0.004853	-0.000097	-0.178959	0.00012	-0.00076	0.00001
	0.025548	-0.000009	-0.177970	0.00012	-0.00075	0.00004
	0.023259	-0.000011	-0.178080	0.00012	-0.00075	0.00003
	0.022783	-0.000102	-0.178101	0.00012	-0.00075	0.00003
	0.020494	-0.000104	-0.178210	0.00012	-0.00075	0.00003
	-0.024027	0.000128	-0.180345	0.00012	-0.00078	-0.00004
	-0.026316	0.000127	-0.180454	0.00012	-0.00078	-0.00004
	-0.026792	0.000035	-0.180475	0.00012	-0.00078	-0.00004
	-0.029082	0.000034	-0.180585	0.00012	-0.00078	-0.00004
	-0.008387	0.000121	-0.179596	0.00012	-0.00077	-0.00001
	-0.010676	0.000120	-0.179706	0.00012	-0.00077	-0.00002
	-0.011152	0.000028	-0.179727	0.00012	-0.00077	-0.00002
	-0.013441	0.000027	-0.179836	0.00012	-0.00077	-0.00002
108	0.009908	0.004282	-0.151279	0.00052	0.00032	0.00001
	0.007620	0.003283	-0.151193	0.00052	0.00032	0.00001
	0.007144	0.002978	-0.151174	0.00052	0.00032	0.00001
	0.004856	0.001979	-0.151088	0.00053	0.00031	0.00001
	0.025549	0.011050	-0.151869	0.00050	0.00033	0.00004
	0.023260	0.010051	-0.151783	0.00050	0.00033	0.00003
	0.022784	0.009746	-0.151765	0.00050	0.00032	0.00003
	0.020496	0.008747	-0.151678	0.00051	0.00032	0.00003
	-0.024034	-0.010234	-0.149998	0.00056	0.00030	-0.00004
	-0.026322	-0.011232	-0.149911	0.00056	0.00030	-0.00004
	-0.026798	-0.011538	-0.149893	0.00057	0.00030	-0.00004
	-0.029086	-0.012536	-0.149807	0.00057	0.00029	-0.00004
	-0.008393	-0.003465	-0.150588	0.00054	0.00031	-0.00001
	-0.010682	-0.004464	-0.150502	0.00054	0.00031	-0.00002
	-0.011158	-0.004769	-0.150483	0.00055	0.00031	-0.00002
	-0.013446	-0.005768	-0.150397	0.00055	0.00030	-0.00002
109	0.010004	0.011963	-0.187215	0.00017	-0.00025	0.00001
	0.007691	0.009163	-0.187231	0.00018	-0.00025	0.00001
	0.007210	0.008469	-0.187228	0.00018	-0.00025	0.00001
	0.004897	0.005669	-0.187245	0.00019	-0.00025	0.00001
	0.025805	0.030951	-0.187091	0.00011	-0.00025	0.00004
	0.023493	0.028151	-0.187107	0.00012	-0.00025	0.00003
	0.023011	0.027457	-0.187104	0.00012	-0.00025	0.00003
	0.020699	0.024657	-0.187121	0.00013	-0.00025	0.00003
	-0.024283	-0.028863	-0.187521	0.00030	-0.00026	-0.00004
	-0.026596	-0.031663	-0.187537	0.00031	-0.00027	-0.00004
	-0.027077	-0.032358	-0.187534	0.00031	-0.00027	-0.00004
	-0.029390	-0.035158	-0.187551	0.00032	-0.00027	-0.00004
	-0.008482	-0.009875	-0.187397	0.00024	-0.00026	-0.00001
	-0.010794	-0.012675	-0.187414	0.00025	-0.00026	-0.00002
	-0.011276	-0.013369	-0.187410	0.00025	-0.00026	-0.00002
	-0.013588	-0.016169	-0.187427	0.00026	-0.00026	-0.00002
110	0.014725	0.011966	-0.156856	-0.00007	-0.00048	0.00001
	0.011311	0.009165	-0.156789	-0.00007	-0.00049	0.00001
	0.010604	0.008467	-0.156773	-0.00007	-0.00049	0.00001
	0.007190	0.005667	-0.156706	-0.00006	-0.00050	0.00001
	0.038034	0.030952	-0.157307	-0.00012	-0.00041	0.00003
	0.034620	0.028152	-0.157241	-0.00011	-0.00042	0.00003
	0.033913	0.027454	-0.157224	-0.00011	-0.00042	0.00003
	0.030499	0.024654	-0.157157	-0.00010	-0.00043	0.00003
	-0.035762	-0.028850	-0.155889	0.00002	-0.00064	-0.00003
	-0.039176	-0.031651	-0.155822	0.00003	-0.00065	-0.00004
	-0.039883	-0.032348	-0.155805	0.00003	-0.00065	-0.00004
	-0.043297	-0.035149	-0.155739	0.00004	-0.00066	-0.00004
	-0.012453	-0.009863	-0.156340	-0.00002	-0.00057	-0.00001
	-0.015867	-0.012664	-0.156273	-0.00002	-0.00058	-0.00001
	-0.016574	-0.013362	-0.156257	-0.00001	-0.00058	-0.00002
	-0.019988	-0.016162	-0.156190	-0.00001	-0.00059	-0.00002
111	0.019510	0.011965	-0.132901	-0.00003	0.00004	0.00001
	0.014978	0.009164	-0.132765	-0.00002	0.00003	0.00001
	0.014041	0.008464	-0.132736	-0.00002	0.00003	0.00001
	0.009509	0.005663	-0.132600	-0.00001	0.00003	0.00001
	0.050424	0.030951	-0.133825	-0.00009	0.00009	0.00004
	0.045893	0.028150	-0.133690	-0.00008	0.00008	0.00004
	0.044956	0.027450	-0.133660	-0.00008	0.00008	0.00003
	0.040424	0.024649	-0.133524	-0.00007	0.00007	0.00003
	-0.047379	-0.028842	-0.130905	0.00010	-0.00006	-0.00004
	-0.051910	-0.031644	-0.130769	0.00011	-0.00006	-0.00004
	-0.052847	-0.032343	-0.130739	0.00011	-0.00006	-0.00004
	-0.057379	-0.035145	-0.130604	0.00012	-0.00007	-0.00004
	-0.016464	-0.009856	-0.131829	0.00004	-0.00001	-0.00001
	-0.020995	-0.012658	-0.131694	0.00005	-0.00002	-0.00002
	-0.021933	-0.013357	-0.131664	0.00005	-0.00002	-0.00002
	-0.026464	-0.016159	-0.131528	0.00006	-0.00003	-0.00002
112	0.019501	0.008620	-0.155273	0.00016	-0.00026	0.00001

	0.014972	0.006605	-0.155277	0.00016	-0.00026	0.00001
	0.014035	0.006068	-0.155277	0.00016	-0.00026	0.00001
	0.009506	0.004053	-0.155281	0.00017	-0.00027	0.00001
	0.050402	0.022276	-0.155247	0.00015	-0.00024	0.00004
	0.045872	0.020261	-0.155251	0.00015	-0.00025	0.00003
	0.044936	0.019724	-0.155251	0.00016	-0.00025	0.00003
	0.040407	0.017709	-0.155255	0.00016	-0.00025	0.00003
	-0.047357	-0.020717	-0.155330	0.00018	-0.00030	-0.00004
	-0.051886	-0.022732	-0.155333	0.00018	-0.00030	-0.00004
	-0.052822	-0.023269	-0.155334	0.00018	-0.00030	-0.00004
	-0.057352	-0.025284	-0.155338	0.00019	-0.00030	-0.00004
	-0.016456	-0.007061	-0.155304	0.00017	-0.00028	-0.00001
	-0.020985	-0.009076	-0.155307	0.00017	-0.00028	-0.00002
	-0.021921	-0.009613	-0.155308	0.00018	-0.00028	-0.00002
	-0.026451	-0.011628	-0.155312	0.00018	-0.00028	-0.00002
115	0.019751	0.000137	-0.140162	-0.00013	0.00012	0.00001
	0.015162	0.000118	-0.140172	-0.00013	0.00011	0.00001
	0.014219	-0.000020	-0.140177	-0.00013	0.00011	0.00001
	0.009631	-0.000039	-0.140187	-0.00013	0.00010	0.00001
	0.051050	0.000246	-0.140094	-0.00013	0.00018	0.00004
	0.046461	0.000227	-0.140104	-0.00013	0.00017	0.00003
	0.045518	0.000089	-0.140109	-0.00013	0.00017	0.00003
	0.040930	0.000070	-0.140119	-0.00013	0.00016	0.00003
	-0.047964	-0.000063	-0.140306	-0.00013	0.00000	-0.00003
	-0.052552	-0.000082	-0.140316	-0.00013	-0.00001	-0.00004
	-0.053495	-0.000220	-0.140321	-0.00012	-0.00001	-0.00004
	-0.058084	-0.000239	-0.140331	-0.00012	-0.00002	-0.00004
	-0.016665	0.000046	-0.140238	-0.00013	0.00005	-0.00001
	-0.021253	0.000027	-0.140248	-0.00013	0.00004	-0.00002
	-0.022196	-0.000111	-0.140253	-0.00013	0.00004	-0.00002
	-0.026785	-0.000130	-0.140263	-0.00013	0.00003	-0.00002
116	0.019673	-0.004073	-0.122954	0.00003	-0.00045	0.00001
	0.015101	-0.003111	-0.122971	0.00003	-0.00045	0.00001
	0.014167	-0.003028	-0.122972	0.00003	-0.00045	0.00001
	0.009595	-0.002065	-0.122989	0.00003	-0.00045	0.00001
	0.050851	-0.010623	-0.122842	0.00006	-0.00042	0.00004
	0.046279	-0.009660	-0.122858	0.00005	-0.00042	0.00003
	0.045345	-0.009578	-0.122860	0.00005	-0.00043	0.00003
	0.040773	-0.008615	-0.122876	0.00005	-0.00043	0.00003
	-0.047775	0.010099	-0.123196	-0.00002	-0.00050	-0.00003
	-0.052347	0.011062	-0.123213	-0.00002	-0.00050	-0.00004
	-0.053282	0.011144	-0.123214	-0.00002	-0.00051	-0.00004
	-0.057853	0.012107	-0.123231	-0.00003	-0.00051	-0.00004
	-0.016597	0.003550	-0.123084	0.00000	-0.00048	-0.00001
	-0.021169	0.004513	-0.123100	0.00000	-0.00048	-0.00002
	-0.022103	0.004595	-0.123102	0.00000	-0.00048	-0.00002
	-0.026675	0.005558	-0.123119	0.00000	-0.00048	-0.00002
117	0.025348	-0.003540	-0.110094	0.00027	-0.00004	0.00001
	0.019449	-0.002703	-0.109858	0.00027	-0.00006	0.00001
	0.018243	-0.002648	-0.109813	0.00027	-0.00006	0.00001
	0.012344	-0.001811	-0.109577	0.00027	-0.00008	0.00001
	0.065564	-0.009243	-0.111700	0.00027	0.00007	0.00004
	0.059665	-0.008406	-0.111464	0.00027	0.00006	0.00003
	0.058459	-0.008351	-0.111418	0.00027	0.00005	0.00003
	0.052560	-0.007514	-0.111183	0.00027	0.00004	0.00003
	-0.061580	0.008815	-0.106623	0.00028	-0.00028	-0.00003
	-0.067479	0.009652	-0.106387	0.00028	-0.00030	-0.00004
	-0.068686	0.009707	-0.106341	0.00028	-0.00030	-0.00004
	-0.074584	0.010543	-0.106106	0.00028	-0.00032	-0.00004
	-0.021364	0.003111	-0.108229	0.00027	-0.00017	-0.00001
	-0.027263	0.003948	-0.107993	0.00027	-0.00019	-0.00001
	-0.028470	0.004003	-0.107947	0.00027	-0.00019	-0.00002
	-0.034369	0.004840	-0.107712	0.00027	-0.00021	-0.00002
118	0.028459	-0.000293	-0.158718	-0.00021	0.00014	0.00001
	0.021832	-0.000207	-0.158804	-0.00021	0.00014	0.00001
	0.020473	-0.000401	-0.158818	-0.00021	0.00013	0.00001
	0.013846	-0.000315	-0.158904	-0.00021	0.00013	0.00001
	0.073625	-0.000900	-0.158129	-0.00020	0.00020	0.00004
	0.066998	-0.000814	-0.158216	-0.00020	0.00019	0.00003
	0.065639	-0.001008	-0.158230	-0.00020	0.00019	0.00003
	0.059011	-0.000922	-0.158316	-0.00020	0.00018	0.00003
	-0.069131	0.001093	-0.159990	-0.00023	0.00003	-0.00004
	-0.075759	0.001179	-0.160076	-0.00023	0.00002	-0.00004
	-0.077118	0.000985	-0.160090	-0.00023	0.00002	-0.00004
	-0.083745	0.001071	-0.160176	-0.00023	0.00001	-0.00004
	-0.023965	0.000486	-0.159401	-0.00022	0.00008	-0.00001
	-0.030593	0.000572	-0.159488	-0.00022	0.00007	-0.00002
	-0.031952	0.000378	-0.159502	-0.00022	0.00007	-0.00002
	-0.038579	0.000464	-0.159588	-0.00022	0.00006	-0.00002
119	0.022532	0.004304	-0.113986	0.00001	0.00012	0.00000
	0.017293	0.003302	-0.114114	0.00002	0.00009	0.00000
	0.016213	0.002973	-0.114139	0.00002	0.00009	0.00000
	0.010973	0.001972	-0.114267	0.00002	0.00007	0.00000
	0.058258	0.011081	-0.113112	-0.00002	0.00027	0.00000
	0.053019	0.010080	-0.113241	-0.00002	0.00025	0.00000
	0.051938	0.009751	-0.113265	-0.00001	0.00024	0.00000

	0.046699	0.008749	-0.113393	-0.00001	0.00022	0.00000
	-0.054720	-0.010221	-0.115876	0.00008	-0.00022	0.00000
	-0.059959	-0.011222	-0.116004	0.00009	-0.00024	0.00000
	-0.061040	-0.011551	-0.116029	0.00009	-0.00024	0.00000
	-0.066279	-0.012553	-0.116157	0.00010	-0.00027	0.00000
	-0.018995	-0.003444	-0.115002	0.00005	-0.00006	0.00000
	-0.024234	-0.004445	-0.115131	0.00006	-0.00009	0.00000
	-0.025314	-0.004774	-0.115155	0.00006	-0.00009	0.00000
	-0.030554	-0.005776	-0.115283	0.00006	-0.00011	0.00000
120	0.033399	-0.000385	-0.122177	-0.00006	-0.00001	0.00001
	0.025614	-0.000274	-0.122251	-0.00005	-0.00002	0.00001
	0.024017	-0.000492	-0.122266	-0.00005	-0.00002	0.00001
	0.016231	-0.000380	-0.122339	-0.00005	-0.00004	0.00001
	0.086436	-0.001164	-0.121674	-0.00010	0.00007	0.00004
	0.078650	-0.001053	-0.121747	-0.00009	0.00006	0.00004
	0.077053	-0.001271	-0.121762	-0.00009	0.00006	0.00003
	0.069267	-0.001160	-0.121836	-0.00009	0.00005	0.00003
	-0.081142	0.001369	-0.123265	0.00003	-0.00019	-0.00004
	-0.088928	0.001480	-0.123339	0.00004	-0.00020	-0.00004
	-0.090525	0.001262	-0.123354	0.00004	-0.00020	-0.00004
	-0.098310	0.001373	-0.123428	0.00004	-0.00021	-0.00004
	-0.028106	0.000589	-0.122762	-0.00001	-0.00010	-0.00001
	-0.035891	0.000701	-0.122836	-0.00001	-0.00012	-0.00002
	-0.037489	0.000483	-0.122850	0.00000	-0.00012	-0.00002
	-0.045274	0.000594	-0.122924	0.00000	-0.00013	-0.00002
121	0.036247	-0.003288	-0.097625	-0.00016	0.00012	0.00001
	0.027793	-0.002509	-0.098231	-0.00017	0.00010	0.00001
	0.026058	-0.002470	-0.098371	-0.00017	0.00009	0.00001
	0.017605	-0.001691	-0.098977	-0.00017	0.00007	0.00001
	0.093818	-0.008600	-0.093493	-0.00015	0.00030	0.00003
	0.085365	-0.007821	-0.094100	-0.00015	0.00027	0.00003
	0.083629	-0.007783	-0.094239	-0.00015	0.00027	0.00003
	0.075176	-0.007003	-0.094846	-0.00016	0.00024	0.00003
	-0.088060	0.008222	-0.106543	-0.00019	-0.00025	-0.00003
	-0.096513	0.009001	-0.107149	-0.00019	-0.00028	-0.00003
	-0.098248	0.009040	-0.107288	-0.00019	-0.00028	-0.00004
	-0.106701	0.009819	-0.107895	-0.00019	-0.00031	-0.00004
	-0.030488	0.002910	-0.102411	-0.00018	-0.00008	-0.00001
	-0.038942	0.003689	-0.103017	-0.00018	-0.00010	-0.00001
	-0.040677	0.003727	-0.103157	-0.00018	-0.00011	-0.00001
	-0.049130	0.004507	-0.103763	-0.00018	-0.00013	-0.00002
122	0.028021	0.020079	-0.095061	-0.00006	0.00001	0.00001
	0.021496	0.015375	-0.094323	-0.00005	0.00000	0.00001
	0.020149	0.014281	-0.094162	-0.00005	0.00000	0.00001
	0.013623	0.009576	-0.093424	-0.00004	-0.00002	0.00001
	0.072494	0.051989	-0.100083	-0.00013	0.00012	0.00004
	0.065968	0.047284	-0.099345	-0.00012	0.00011	0.00004
	0.064621	0.046191	-0.099184	-0.00012	0.00010	0.00003
	0.058096	0.041486	-0.098446	-0.00011	0.00009	0.00003
	-0.068079	-0.048557	-0.084232	0.00009	-0.00022	-0.00004
	-0.074605	-0.053261	-0.083494	0.00010	-0.00023	-0.00004
	-0.075952	-0.054355	-0.083333	0.00010	-0.00024	-0.00004
	-0.082477	-0.059059	-0.082595	0.00011	-0.00025	-0.00004
	-0.023607	-0.016647	-0.089254	0.00002	-0.00011	-0.00001
	-0.030132	-0.021351	-0.088516	0.00003	-0.00013	-0.00002
	-0.031479	-0.022445	-0.088355	0.00003	-0.00013	-0.00002
	-0.038004	-0.027150	-0.087617	0.00004	-0.00014	-0.00002
123	0.031937	0.021313	-0.088086	-0.00001	-0.00004	0.00001
	0.024493	0.016319	-0.087024	-0.00001	-0.00005	0.00001
	0.022957	0.015166	-0.086800	-0.00001	-0.00005	0.00001
	0.015514	0.010172	-0.085739	-0.00001	-0.00006	0.00001
	0.082652	0.055191	-0.095314	-0.00001	0.00004	0.00004
	0.075208	0.050197	-0.094253	-0.00001	0.00003	0.00003
	0.073672	0.049044	-0.094029	-0.00001	0.00003	0.00003
	0.066229	0.044050	-0.092967	-0.00001	0.00002	0.00003
	-0.077613	-0.051559	-0.072481	0.00001	-0.00021	-0.00004
	-0.085056	-0.056553	-0.071419	0.00001	-0.00022	-0.00004
	-0.086592	-0.057706	-0.071195	0.00001	-0.00022	-0.00004
	-0.094036	-0.062700	-0.070134	0.00001	-0.00023	-0.00004
	-0.026898	-0.017682	-0.079709	0.00000	-0.00013	-0.00001
	-0.034341	-0.022676	-0.078648	0.00000	-0.00014	-0.00002
	-0.035877	-0.023829	-0.078424	0.00000	-0.00014	-0.00002
	-0.043321	-0.028823	-0.077362	0.00000	-0.00015	-0.00002
124	0.034493	0.021013	-0.085928	-0.00004	-0.00004	0.00001
	0.026450	0.016089	-0.085215	-0.00003	-0.00006	0.00001
	0.024794	0.014950	-0.085069	-0.00003	-0.00006	0.00001
	0.016751	0.010026	-0.084355	-0.00002	-0.00008	0.00001
	0.089282	0.054413	-0.090790	-0.00011	0.00008	0.00004
	0.081239	0.049489	-0.090076	-0.00010	0.00006	0.00003
	0.079583	0.048349	-0.089930	-0.00010	0.00005	0.00003
	0.071540	0.043426	-0.089217	-0.00009	0.00004	0.00003
	-0.083828	-0.050829	-0.075426	0.00011	-0.00030	-0.00004
	-0.091870	-0.055753	-0.074713	0.00012	-0.00031	-0.00004
	-0.093527	-0.056892	-0.074566	0.00012	-0.00032	-0.00004
	-0.101570	-0.061816	-0.073853	0.00013	-0.00033	-0.00004
	-0.029039	-0.017430	-0.080287	0.00004	-0.00018	-0.00001

	-0.037081	-0.022354	-0.079574	0.00005	-0.00020	-0.00002
	-0.038738	-0.023493	-0.079428	0.00005	-0.00020	-0.00002
	-0.046781	-0.028417	-0.078714	0.00006	-0.00022	-0.00002
125	0.034270	0.018983	-0.100196	0.00008	-0.00004	0.00001
	0.026280	0.014535	-0.100342	0.00008	-0.00005	0.00001
	0.024634	0.013492	-0.100369	0.00008	-0.00005	0.00001
	0.016644	0.009044	-0.100515	0.00008	-0.00006	0.00001
	0.088703	0.049147	-0.099198	0.00008	0.00000	0.00004
	0.080713	0.044699	-0.099345	0.00008	0.00000	0.00004
	0.079067	0.043656	-0.099372	0.00008	0.00000	0.00003
	0.071077	0.039208	-0.099518	0.00008	-0.00001	0.00003
	-0.083284	-0.045893	-0.102354	0.00008	-0.00014	-0.00004
	-0.091274	-0.050340	-0.102500	0.00008	-0.00015	-0.00004
	-0.092921	-0.051383	-0.102528	0.00008	-0.00015	-0.00004
	-0.100911	-0.055831	-0.102674	0.00008	-0.00016	-0.00004
	-0.028851	-0.015729	-0.101357	0.00008	-0.00010	-0.00001
	-0.036841	-0.020177	-0.101503	0.00008	-0.00010	-0.00002
	-0.038488	-0.021220	-0.101530	0.00008	-0.00010	-0.00002
	-0.046478	-0.025668	-0.101676	0.00008	-0.00011	-0.00002
126	0.038446	0.021014	-0.080446	0.00001	-0.00038	0.00001
	0.029477	0.016090	-0.079992	0.00002	-0.00041	0.00001
	0.027631	0.014950	-0.079903	0.00002	-0.00041	0.00001
	0.018662	0.010026	-0.079448	0.00004	-0.00044	0.00001
	0.099531	0.054413	-0.083550	-0.00007	-0.00021	0.00004
	0.090562	0.049489	-0.083095	-0.00006	-0.00023	0.00003
	0.088716	0.048349	-0.083007	-0.00006	-0.00024	0.00003
	0.079747	0.043425	-0.082552	-0.00004	-0.00026	0.00003
	-0.093434	-0.050828	-0.073733	0.00018	-0.00076	-0.00004
	-0.102403	-0.055752	-0.073278	0.00019	-0.00078	-0.00004
	-0.104249	-0.056892	-0.073190	0.00019	-0.00079	-0.00004
	-0.113218	-0.061816	-0.072735	0.00021	-0.00082	-0.00004
	-0.032349	-0.017429	-0.076837	0.00010	-0.00058	-0.00001
	-0.041318	-0.022353	-0.076382	0.00011	-0.00061	-0.00002
	-0.043164	-0.023493	-0.076294	0.00011	-0.00062	-0.00002
	-0.052133	-0.028417	-0.075839	0.00013	-0.00064	-0.00002
127	0.038672	0.014584	-0.126683	0.00017	0.00020	0.00001
	0.029650	0.011168	-0.126992	0.00016	0.00019	0.00001
	0.027794	0.010334	-0.127053	0.00016	0.00019	0.00001
	0.018773	0.006919	-0.127361	0.00016	0.00019	0.00001
	0.100113	0.037738	-0.124583	0.00019	0.00024	0.00004
	0.091091	0.034323	-0.124891	0.00019	0.00023	0.00003
	0.089235	0.033489	-0.124953	0.00019	0.00023	0.00003
	0.080213	0.030073	-0.125261	0.00018	0.00023	0.00003
	-0.093972	-0.035203	-0.131223	0.00012	0.00012	-0.00004
	-0.102993	-0.038619	-0.131531	0.00011	0.00011	-0.00004
	-0.104849	-0.039453	-0.131592	0.00011	0.00011	-0.00004
	-0.113871	-0.042868	-0.131901	0.00011	0.00011	-0.00004
	-0.032531	-0.012049	-0.129122	0.00014	0.00016	-0.00001
	-0.041553	-0.015464	-0.129430	0.00014	0.00015	-0.00002
	-0.043409	-0.016298	-0.129492	0.00014	0.00015	-0.00002
	-0.052430	-0.019714	-0.129800	0.00013	0.00014	-0.00002
128	0.000000	0.000000	-0.113844	-0.00013	-0.00006	0.00000
	0.000000	0.000000	-0.113957	-0.00013	-0.00006	0.00000
	0.000000	0.000000	-0.113977	-0.00013	-0.00006	0.00000
	0.000000	0.000000	-0.114090	-0.00013	-0.00007	0.00000
	0.000000	0.000000	-0.113070	-0.00012	-0.00005	0.00000
	0.000000	0.000000	-0.113183	-0.00012	-0.00005	0.00000
	0.000000	0.000000	-0.113203	-0.00012	-0.00005	0.00000
	0.000000	0.000000	-0.113316	-0.00012	-0.00005	0.00000
	0.000000	0.000000	-0.115520	-0.00015	-0.00009	0.00000
	0.000000	0.000000	-0.115633	-0.00015	-0.00009	0.00000
	0.000000	0.000000	-0.115653	-0.00015	-0.00009	0.00000
	0.000000	0.000000	-0.115766	-0.00015	-0.00010	0.00000
	0.000000	0.000000	-0.114746	-0.00014	-0.00008	0.00000
	0.000000	0.000000	-0.114859	-0.00014	-0.00008	0.00000
	0.000000	0.000000	-0.114879	-0.00014	-0.00008	0.00000
	0.000000	0.000000	-0.114992	-0.00014	-0.00008	0.00000
129	0.044222	0.015341	-0.120691	0.00022	0.00016	0.00001
	0.033898	0.011748	-0.120803	0.00023	0.00013	0.00001
	0.031776	0.010877	-0.120822	0.00023	0.00013	0.00001
	0.021453	0.007284	-0.120934	0.00024	0.00010	0.00001
	0.114506	0.039702	-0.119930	0.00014	0.00035	0.00004
	0.104182	0.036109	-0.120041	0.00015	0.00032	0.00003
	0.102060	0.035238	-0.120061	0.00016	0.00032	0.00003
	0.091737	0.031644	-0.120172	0.00017	0.00029	0.00003
	-0.107464	-0.037042	-0.122340	0.00038	-0.00025	-0.00003
	-0.117787	-0.040636	-0.122451	0.00039	-0.00028	-0.00004
	-0.119909	-0.041507	-0.122471	0.00040	-0.00029	-0.00004
	-0.130233	-0.045100	-0.122582	0.00041	-0.00032	-0.00004
	-0.037180	-0.012682	-0.121578	0.00031	-0.00006	-0.00001
	-0.047503	-0.016275	-0.121690	0.00032	-0.00009	-0.00002
	-0.049625	-0.017146	-0.121709	0.00032	-0.00010	-0.00002
	-0.059949	-0.020739	-0.121821	0.00033	-0.00012	-0.00002
136	0.043978	0.004452	-0.096955	-0.00004	0.00032	0.00001
	0.033712	0.003417	-0.098250	-0.00003	0.00029	0.00001

	0.031602	0.003067	-0.098527	-0.00003	0.00028	0.00001
	0.021335	0.002031	-0.099822	-0.00003	0.00025	0.00001
	0.113869	0.011459	-0.088147	-0.00007	0.00053	0.00003
	0.103603	0.010423	-0.089442	-0.00007	0.00050	0.00003
	0.101493	0.010074	-0.089719	-0.00007	0.00049	0.00003
	0.091226	0.009038	-0.091014	-0.00006	0.00046	0.00003
	-0.106860	-0.010566	-0.115955	0.00003	-0.00014	-0.00003
	-0.117127	-0.011602	-0.117249	0.00004	-0.00017	-0.00004
	-0.119237	-0.011952	-0.117527	0.00004	-0.00018	-0.00004
	-0.129503	-0.012987	-0.118821	0.00005	-0.00021	-0.00004
	-0.036969	-0.003560	-0.107147	0.00000	0.00007	-0.00001
	-0.047236	-0.004595	-0.108441	0.00000	0.00004	-0.00001
	-0.049346	-0.004945	-0.108719	0.00001	0.00004	-0.00001
	-0.059613	-0.005981	-0.110013	0.00001	0.00000	-0.00002
137	0.041133	0.007297	-0.123732	0.00011	0.00011	0.00001
	0.031535	0.005593	-0.123884	0.00012	0.00010	0.00001
	0.029562	0.005108	-0.123918	0.00012	0.00010	0.00001
	0.019963	0.003403	-0.124070	0.00014	0.00009	0.00001
	0.106491	0.018839	-0.122698	0.00003	0.00017	0.00004
	0.096893	0.017135	-0.122850	0.00004	0.00016	0.00004
	0.094920	0.016649	-0.122884	0.00004	0.00016	0.00003
	0.085321	0.014945	-0.123036	0.00005	0.00015	0.00003
	-0.099946	-0.017485	-0.125960	0.00029	-0.00004	-0.00004
	-0.109545	-0.019190	-0.126112	0.00030	-0.00005	-0.00004
	-0.111518	-0.019675	-0.126145	0.00031	-0.00005	-0.00004
	-0.121116	-0.021379	-0.126297	0.00032	-0.00006	-0.00004
	-0.034588	-0.005944	-0.124926	0.00021	0.00003	-0.00001
	-0.044187	-0.007648	-0.125078	0.00022	0.00002	-0.00002
	-0.046159	-0.008133	-0.125112	0.00022	0.00002	-0.00002
	-0.055758	-0.009838	-0.125264	0.00023	0.00001	-0.00002
140	0.041023	0.012235	-0.134716	0.00018	0.00002	0.00001
	0.031450	0.009371	-0.135148	0.00018	0.00002	0.00001
	0.029481	0.008648	-0.135243	0.00018	0.00002	0.00001
	0.019908	0.005784	-0.135675	0.00018	0.00001	0.00001
	0.106207	0.031645	-0.131774	0.00018	0.00005	0.00004
	0.096635	0.028781	-0.132207	0.00018	0.00005	0.00003
	0.094666	0.028058	-0.132302	0.00018	0.00005	0.00003
	0.085093	0.025194	-0.132734	0.00018	0.00004	0.00003
	-0.099684	-0.029490	-0.141058	0.00018	-0.00005	-0.00004
	-0.109257	-0.032354	-0.141491	0.00018	-0.00005	-0.00004
	-0.111225	-0.033077	-0.141585	0.00018	-0.00005	-0.00004
	-0.120798	-0.035941	-0.142018	0.00018	-0.00006	-0.00004
	-0.034499	-0.010080	-0.138117	0.00018	-0.00002	-0.00001
	-0.044072	-0.012944	-0.138549	0.00018	-0.00002	-0.00002
	-0.046040	-0.013667	-0.138644	0.00018	-0.00002	-0.00002
	-0.055613	-0.016531	-0.139077	0.00018	-0.00003	-0.00002
141	0.049349	0.009821	-0.097781	-0.00035	0.00036	0.00001
	0.037822	0.007524	-0.098024	-0.00034	0.00032	0.00001
	0.035454	0.006917	-0.098085	-0.00034	0.00031	0.00001
	0.023927	0.004621	-0.098328	-0.00033	0.00028	0.00001
	0.127798	0.025381	-0.096134	-0.00042	0.00062	0.00003
	0.116272	0.023085	-0.096377	-0.00041	0.00059	0.00003
	0.113903	0.022478	-0.096439	-0.00041	0.00058	0.00003
	0.102377	0.020182	-0.096681	-0.00040	0.00054	0.00003
	-0.119918	-0.023616	-0.101321	-0.00021	-0.00020	-0.00003
	-0.131445	-0.025913	-0.101564	-0.00019	-0.00024	-0.00003
	-0.133813	-0.026519	-0.101625	-0.00019	-0.00025	-0.00003
	-0.145340	-0.028816	-0.101868	-0.00018	-0.00029	-0.00004
	-0.041469	-0.008056	-0.099674	-0.00027	0.00006	-0.00001
	-0.052996	-0.010352	-0.099917	-0.00026	0.00002	-0.00001
	-0.055364	-0.010959	-0.099979	-0.00026	0.00001	-0.00001
	-0.066890	-0.013255	-0.100221	-0.00025	-0.00003	-0.00002
142	0.030875	-0.008661	-0.095142	-0.00017	0.00043	0.00001
	0.023680	-0.006620	-0.095755	-0.00018	0.00041	0.00001
	0.022208	-0.006324	-0.095881	-0.00018	0.00040	0.00001
	0.015013	-0.004283	-0.096494	-0.00018	0.00038	0.00001
	0.079892	-0.022531	-0.090965	-0.00014	0.00059	0.00003
	0.072697	-0.020490	-0.091578	-0.00014	0.00057	0.00003
	0.071224	-0.020194	-0.091704	-0.00014	0.00056	0.00003
	0.064030	-0.018153	-0.092317	-0.00015	0.00054	0.00003
	-0.075005	0.021272	-0.104167	-0.00025	0.00009	-0.00003
	-0.082199	0.023313	-0.104780	-0.00025	0.00007	-0.00003
	-0.083672	0.023609	-0.104906	-0.00025	0.00006	-0.00003
	-0.090867	0.025650	-0.105519	-0.00026	0.00004	-0.00004
	-0.025988	0.007402	-0.099990	-0.00021	0.00025	-0.00001
	-0.033183	0.009443	-0.100603	-0.00022	0.00023	-0.00001
	-0.034655	0.009739	-0.100729	-0.00022	0.00022	-0.00001
	-0.041850	0.011780	-0.101342	-0.00022	0.00020	-0.00002
143	0.031090	0.001876	-0.137343	0.00001	0.00001	0.00001
	0.023846	0.001445	-0.136522	0.00001	0.00000	0.00001
	0.022360	0.001221	-0.136342	0.00001	-0.00001	0.00001
	0.015117	0.000790	-0.135521	0.00000	-0.00002	0.00001
	0.080448	0.004779	-0.142935	0.00001	0.00013	0.00004
	0.073204	0.004348	-0.142114	0.00001	0.00011	0.00003
	0.071718	0.004123	-0.141934	0.00001	0.00011	0.00003
	0.064474	0.003692	-0.141112	0.00001	0.00009	0.00003

	-0.075529	-0.004303	-0.125272	0.00000	-0.00023	-0.00004
	-0.082773	-0.004734	-0.124451	0.00000	-0.00025	-0.00004
	-0.084259	-0.004958	-0.124271	0.00000	-0.00025	-0.00004
	-0.091503	-0.005389	-0.123450	0.00000	-0.00027	-0.00004
	-0.026171	-0.001400	-0.130864	0.00000	-0.00012	-0.00001
	-0.033415	-0.001831	-0.130043	0.00000	-0.00013	-0.00002
	-0.034901	-0.002056	-0.129863	0.00000	-0.00014	-0.00002
	-0.042145	-0.002487	-0.129041	0.00000	-0.00015	-0.00002
144	0.038821	0.009606	-0.134717	0.00003	0.00000	0.00001
	0.029765	0.007360	-0.133846	0.00004	-0.00001	0.00001
	0.027902	0.006764	-0.133653	0.00004	-0.00001	0.00001
	0.018846	0.004518	-0.132782	0.00005	-0.00003	0.00001
	0.100497	0.024826	-0.140645	-0.00002	0.00011	0.00004
	0.091441	0.022580	-0.139773	-0.00001	0.00009	0.00003
	0.089578	0.021984	-0.139581	-0.00001	0.00009	0.00003
	0.080522	0.019737	-0.138709	0.00000	0.00007	0.00003
	-0.094330	-0.023097	-0.121936	0.00014	-0.00021	-0.00004
	-0.103386	-0.025343	-0.121064	0.00014	-0.00023	-0.00004
	-0.105249	-0.025939	-0.120872	0.00015	-0.00023	-0.00004
	-0.114305	-0.028186	-0.120001	0.00015	-0.00025	-0.00004
	-0.032654	-0.007877	-0.127864	0.00009	-0.00011	-0.00001
	-0.041710	-0.010124	-0.126992	0.00009	-0.00013	-0.00002
	-0.043572	-0.010720	-0.126800	0.00010	-0.00013	-0.00002
	-0.052629	-0.012966	-0.125928	0.00010	-0.00015	-0.00002
145	0.044599	0.021243	-0.081820	-0.00016	-0.00025	0.00001
	0.034187	0.016265	-0.081293	-0.00014	-0.00029	0.00001
	0.032046	0.015114	-0.081198	-0.00014	-0.00029	0.00001
	0.021634	0.010136	-0.080671	-0.00012	-0.00033	0.00001
	0.115488	0.055004	-0.085416	-0.00028	-0.00002	0.00003
	0.105075	0.050027	-0.084890	-0.00026	-0.00006	0.00003
	0.102935	0.048876	-0.084794	-0.00026	-0.00006	0.00003
	0.092523	0.043898	-0.084267	-0.00024	-0.00010	0.00003
	-0.108389	-0.051381	-0.074035	0.00009	-0.00075	-0.00003
	-0.118802	-0.056358	-0.073509	0.00011	-0.00078	-0.00003
	-0.120942	-0.057509	-0.073413	0.00011	-0.00079	-0.00003
	-0.131355	-0.062487	-0.072887	0.00013	-0.00082	-0.00004
	-0.037501	-0.017619	-0.077632	-0.00002	-0.00052	-0.00001
	-0.047913	-0.022597	-0.077105	-0.00001	-0.00055	-0.00001
	-0.050054	-0.023747	-0.077009	0.00000	-0.00056	-0.00001
	-0.060466	-0.028725	-0.076483	0.00001	-0.00059	-0.00002
154	0.028342	0.021241	-0.093158	-0.00005	0.00004	0.00001
	0.021741	0.016263	-0.091596	-0.00004	0.00003	0.00001
	0.020379	0.015116	-0.091261	-0.00003	0.00002	0.00001
	0.013778	0.010139	-0.089699	-0.00002	0.00000	0.00001
	0.073329	0.055010	-0.103786	-0.00013	0.00016	0.00004
	0.066728	0.050033	-0.102224	-0.00012	0.00015	0.00003
	0.065366	0.048885	-0.101889	-0.00012	0.00014	0.00003
	0.058765	0.043908	-0.100328	-0.00011	0.00013	0.00003
	-0.068864	-0.051393	-0.070227	0.00014	-0.00022	-0.00003
	-0.075465	-0.056370	-0.068665	0.00015	-0.00024	-0.00004
	-0.076827	-0.057518	-0.068330	0.00015	-0.00024	-0.00004
	-0.083427	-0.062495	-0.066768	0.00016	-0.00026	-0.00004
	-0.023877	-0.017624	-0.080855	0.00005	-0.00010	-0.00001
	-0.030477	-0.022601	-0.079293	0.00006	-0.00012	-0.00002
	-0.031839	-0.023748	-0.078958	0.00007	-0.00012	-0.00002
	-0.038440	-0.028726	-0.077397	0.00008	-0.00014	-0.00002
155	0.030764	0.009929	-0.096835	-0.00005	0.00014	0.00000
	0.023597	0.007606	-0.096854	-0.00004	0.00011	0.00000
	0.022121	0.007001	-0.096858	-0.00003	0.00010	0.00000
	0.014953	0.004679	-0.096876	-0.00002	0.00007	0.00000
	0.079606	0.025666	-0.096709	-0.00012	0.00036	0.00000
	0.072438	0.023343	-0.096727	-0.00011	0.00032	0.00000
	0.070962	0.022738	-0.096731	-0.00011	0.00032	0.00000
	0.063794	0.020415	-0.096750	-0.00010	0.00029	0.00000
	-0.074745	-0.023887	-0.097109	0.00012	-0.00033	0.00000
	-0.081912	-0.026209	-0.097127	0.00013	-0.00036	0.00000
	-0.083388	-0.026814	-0.097131	0.00013	-0.00036	0.00000
	-0.090556	-0.029137	-0.097150	0.00014	-0.00040	0.00000
	-0.025903	-0.008150	-0.096982	0.00004	-0.00011	0.00000
	-0.033071	-0.010472	-0.097001	0.00005	-0.00014	0.00000
	-0.034547	-0.011077	-0.097004	0.00005	-0.00015	0.00000
	-0.041715	-0.013400	-0.097023	0.00007	-0.00018	0.00000
156	0.024051	0.016645	-0.107376	-0.00008	-0.00001	0.00001
	0.018457	0.012747	-0.107150	-0.00007	-0.00003	0.00001
	0.017302	0.011821	-0.107098	-0.00006	-0.00003	0.00001
	0.011709	0.007923	-0.106873	-0.00005	-0.00005	0.00001
	0.062194	0.043081	-0.108909	-0.00018	0.00011	0.00004
	0.056601	0.039183	-0.108683	-0.00017	0.00009	0.00003
	0.055446	0.038257	-0.108632	-0.00016	0.00009	0.00003
	0.049852	0.034359	-0.108406	-0.00015	0.00007	0.00003
	-0.058422	-0.040209	-0.104074	0.00013	-0.00026	-0.00003
	-0.064016	-0.044107	-0.103849	0.00015	-0.00028	-0.00004
	-0.065171	-0.045033	-0.103797	0.00015	-0.00029	-0.00004
	-0.070764	-0.048931	-0.103571	0.00017	-0.00030	-0.00004
	-0.020279	-0.013773	-0.105608	0.00003	-0.00015	-0.00001
	-0.025872	-0.017671	-0.105382	0.00005	-0.00016	-0.00002

	-0.027027	-0.018597	-0.105330	0.00005	-0.00017	-0.00002
	-0.032621	-0.022495	-0.105105	0.00007	-0.00018	-0.00002
157	0.037480	0.003218	-0.106283	-0.00009	0.00007	0.00001
	0.028738	0.002472	-0.106316	-0.00007	0.00005	0.00001
	0.026943	0.002182	-0.106323	-0.00007	0.00005	0.00001
	0.018200	0.001436	-0.106355	-0.00005	0.00003	0.00001
	0.097019	0.008258	-0.106059	-0.00019	0.00018	0.00004
	0.088277	0.007512	-0.106092	-0.00017	0.00017	0.00003
	0.086481	0.007222	-0.106099	-0.00017	0.00016	0.00003
	0.077739	0.006476	-0.106132	-0.00016	0.00015	0.00003
	-0.091065	-0.007566	-0.106766	0.00014	-0.00017	-0.00003
	-0.099807	-0.008312	-0.106799	0.00015	-0.00019	-0.00004
	-0.101603	-0.008602	-0.106806	0.00016	-0.00019	-0.00004
	-0.110345	-0.009348	-0.106839	0.00017	-0.00021	-0.00004
	-0.031527	-0.002526	-0.106542	0.00003	-0.00006	-0.00001
	-0.040269	-0.003272	-0.106575	0.00005	-0.00008	-0.00002
	-0.042064	-0.003562	-0.106582	0.00005	-0.00008	-0.00002
	-0.050807	-0.004308	-0.106615	0.00007	-0.00010	-0.00002
158	0.014839	-0.012723	-0.170072	0.00002	0.00149	0.00001
	0.011401	-0.009721	-0.170212	0.00002	0.00148	0.00001
	0.010696	-0.009235	-0.170242	0.00002	0.00148	0.00001
	0.007258	-0.006233	-0.170382	0.00001	0.00148	0.00001
	0.038311	-0.033073	-0.169113	0.00007	0.00153	0.00004
	0.034873	-0.030071	-0.169253	0.00006	0.00152	0.00003
	0.034168	-0.029584	-0.169283	0.00006	0.00152	0.00003
	0.030730	-0.026582	-0.169423	0.00005	0.00152	0.00003
	-0.036002	0.031130	-0.172151	-0.00007	0.00140	-0.00003
	-0.039440	0.034132	-0.172291	-0.00008	0.00140	-0.00004
	-0.040144	0.034619	-0.172321	-0.00008	0.00140	-0.00004
	-0.043582	0.037621	-0.172461	-0.00008	0.00139	-0.00004
	-0.012530	0.010781	-0.171192	-0.00003	0.00144	-0.00001
	-0.015968	0.013783	-0.171332	-0.00003	0.00144	-0.00001
	-0.016672	0.014269	-0.171362	-0.00003	0.00144	-0.00002
	-0.020111	0.017271	-0.171502	-0.00004	0.00143	-0.00002
159	0.009902	-0.012722	-0.182492	0.00003	0.00145	0.00001
	0.007608	-0.009717	-0.182560	0.00002	0.00144	0.00001
	0.007148	-0.009229	-0.182574	0.00002	0.00144	0.00001
	0.004854	-0.006224	-0.182642	0.00001	0.00144	0.00001
	0.025545	-0.033073	-0.182022	0.00007	0.00147	0.00004
	0.023251	-0.030069	-0.182091	0.00007	0.00147	0.00003
	0.022791	-0.029580	-0.182104	0.00006	0.00147	0.00003
	0.020497	-0.026575	-0.182173	0.00006	0.00147	0.00003
	-0.023998	0.031112	-0.183509	-0.00007	0.00139	-0.00003
	-0.026292	0.034117	-0.183577	-0.00007	0.00139	-0.00004
	-0.026752	0.034605	-0.183590	-0.00007	0.00138	-0.00004
	-0.029045	0.037610	-0.183659	-0.00008	0.00138	-0.00004
	-0.008355	0.010761	-0.183039	-0.00002	0.00142	-0.00001
	-0.010648	0.013766	-0.183108	-0.00003	0.00141	-0.00001
	-0.011108	0.014254	-0.183121	-0.00003	0.00141	-0.00002
	-0.013402	0.017259	-0.183190	-0.00004	0.00141	-0.00002
160	0.004947	-0.012717	-0.185351	0.00003	0.00146	0.00001
	0.003798	-0.009710	-0.185376	0.00002	0.00145	0.00001
	0.003583	-0.009218	-0.185381	0.00002	0.00145	0.00001
	0.002433	-0.006211	-0.185405	0.00001	0.00145	0.00001
	0.012770	-0.033071	-0.185182	0.00007	0.00147	0.00004
	0.011621	-0.030064	-0.185207	0.00006	0.00147	0.00003
	0.011405	-0.029572	-0.185212	0.00006	0.00147	0.00003
	0.010256	-0.026565	-0.185236	0.00006	0.00146	0.00003
	-0.011991	0.031092	-0.185718	-0.00007	0.00143	-0.00003
	-0.013141	0.034099	-0.185743	-0.00008	0.00143	-0.00004
	-0.013356	0.034591	-0.185748	-0.00008	0.00143	-0.00004
	-0.014506	0.037598	-0.185772	-0.00008	0.00143	-0.00004
	-0.004169	0.010738	-0.185550	-0.00002	0.00144	-0.00001
	-0.005318	0.013745	-0.185574	-0.00003	0.00144	-0.00001
	-0.005533	0.014237	-0.185579	-0.00003	0.00144	-0.00002
	-0.006683	0.017244	-0.185603	-0.00004	0.00144	-0.00002
161	0.000092	-0.012707	-0.182505	0.00003	0.00143	0.00001
	0.000091	-0.009698	-0.182488	0.00003	0.00143	0.00001
	0.000129	-0.009203	-0.182484	0.00003	0.00143	0.00001
	0.000127	-0.006193	-0.182467	0.00002	0.00144	0.00001
	0.000071	-0.033066	-0.182623	0.00008	0.00143	0.00004
	0.000070	-0.030056	-0.182605	0.00007	0.00143	0.00003
	0.000108	-0.029561	-0.182602	0.00007	0.00143	0.00003
	0.000106	-0.026552	-0.182584	0.00006	0.00143	0.00003
	-0.000086	0.031070	-0.182257	-0.00006	0.00144	-0.00003
	-0.000088	0.034080	-0.182240	-0.00007	0.00144	-0.00004
	-0.000050	0.034574	-0.182236	-0.00007	0.00144	-0.00004
	-0.000051	0.037584	-0.182219	-0.00008	0.00144	-0.00004
	-0.000107	0.010711	-0.182375	-0.00002	0.00144	-0.00001
	-0.000109	0.013721	-0.182357	-0.00002	0.00144	-0.00001
	-0.000071	0.014216	-0.182354	-0.00003	0.00144	-0.00002
	-0.000072	0.017225	-0.182336	-0.00003	0.00144	-0.00002
162	-0.004810	-0.012700	-0.172960	0.00003	0.00136	0.00001
	-0.003656	-0.009689	-0.172873	0.00002	0.00136	0.00001
	-0.003383	-0.009192	-0.172854	0.00002	0.00136	0.00001

	-0.002229	-0.006181	-0.172767	0.00002	0.00136	0.00001
	-0.012698	-0.033062	-0.173550	0.00007	0.00134	0.00004
	-0.011544	-0.030050	-0.173464	0.00006	0.00134	0.00003
	-0.011271	-0.029553	-0.173445	0.00006	0.00134	0.00003
	-0.010117	-0.026542	-0.173358	0.00006	0.00134	0.00003
	0.011883	0.031055	-0.171705	-0.00006	0.00139	-0.00003
	0.013037	0.034066	-0.171619	-0.00007	0.00139	-0.00004
	0.013309	0.034564	-0.171599	-0.00007	0.00139	-0.00004
	0.014463	0.037575	-0.171513	-0.00008	0.00140	-0.00004
	0.003994	0.010694	-0.172296	-0.00002	0.00137	-0.00001
	0.005148	0.013705	-0.172209	-0.00003	0.00138	-0.00001
	0.005421	0.014202	-0.172190	-0.00003	0.00138	-0.00002
	0.006575	0.017214	-0.172103	-0.00003	0.00138	-0.00002
163	-0.009708	-0.012696	-0.152593	0.00017	-0.00002	0.00001
	-0.007399	-0.009684	-0.152439	0.00016	-0.00001	0.00001
	-0.006897	-0.009185	-0.152400	0.00016	-0.00001	0.00001
	-0.004588	-0.006173	-0.152246	0.00015	-0.00001	0.00001
	-0.025441	-0.033058	-0.153646	0.00023	-0.00006	0.00003
	-0.023132	-0.030046	-0.153492	0.00023	-0.00006	0.00003
	-0.022631	-0.029547	-0.153452	0.00022	-0.00006	0.00003
	-0.020321	-0.026535	-0.153299	0.00021	-0.00005	0.00003
	0.023790	0.031049	-0.150370	0.00004	0.00007	-0.00003
	0.026100	0.034061	-0.150216	0.00003	0.00008	-0.00004
	0.026601	0.034561	-0.150177	0.00003	0.00008	-0.00004
	0.028910	0.037573	-0.150023	0.00002	0.00008	-0.00004
	0.008057	0.010687	-0.151423	0.00010	0.00003	-0.00001
	0.010366	0.013699	-0.151269	0.00009	0.00003	-0.00001
	0.010867	0.014199	-0.151230	0.00009	0.00003	-0.00001
	0.013177	0.017211	-0.151076	0.00008	0.00004	-0.00002
164	-0.009737	0.017027	-0.151133	0.00008	-0.00003	0.00001
	-0.007428	0.013028	-0.151266	0.00009	-0.00002	0.00001
	-0.006912	0.012094	-0.151294	0.00010	-0.00002	0.00001
	-0.004603	0.008095	-0.151427	0.00011	-0.00002	0.00001
	-0.025459	0.044138	-0.150227	0.00000	-0.00007	0.00003
	-0.023150	0.040138	-0.150360	0.00001	-0.00007	0.00003
	-0.022634	0.039205	-0.150388	0.00001	-0.00007	0.00003
	-0.020325	0.035206	-0.150521	0.00002	-0.00006	0.00003
	0.023768	-0.041204	-0.153044	0.00026	0.00006	-0.00003
	0.026077	-0.045203	-0.153177	0.00027	0.00007	-0.00004
	0.026594	-0.046137	-0.153205	0.00028	0.00007	-0.00004
	0.028903	-0.050136	-0.153338	0.00029	0.00007	-0.00004
	0.008046	-0.014093	-0.152138	0.00018	0.00002	-0.00001
	0.010355	-0.018092	-0.152271	0.00019	0.00002	-0.00001
	0.010872	-0.019026	-0.152299	0.00019	0.00002	-0.00001
	0.013181	-0.023025	-0.152432	0.00020	0.00003	-0.00002
165	-0.004862	0.017033	-0.173537	-0.00003	-0.00136	0.00001
	-0.003707	0.013034	-0.173626	-0.00003	-0.00136	0.00001
	-0.003437	0.012097	-0.173645	-0.00002	-0.00136	0.00001
	-0.002281	0.008098	-0.173733	-0.00002	-0.00135	0.00001
	-0.012744	0.044141	-0.172936	-0.00009	-0.00138	0.00004
	-0.011589	0.040142	-0.173024	-0.00008	-0.00137	0.00003
	-0.011319	0.039205	-0.173044	-0.00008	-0.00137	0.00003
	-0.010163	0.035206	-0.173132	-0.00007	-0.00137	0.00003
	0.011838	-0.041206	-0.174816	0.00009	-0.00133	-0.00003
	0.012994	-0.045205	-0.174905	0.00010	-0.00132	-0.00004
	0.013263	-0.046142	-0.174924	0.00010	-0.00132	-0.00004
	0.014419	-0.050141	-0.175012	0.00011	-0.00132	-0.00004
	0.003956	-0.014098	-0.174215	0.00003	-0.00134	-0.00001
	0.005112	-0.018097	-0.174303	0.00004	-0.00134	-0.00001
	0.005381	-0.019034	-0.174323	0.00004	-0.00134	-0.00002
	0.006537	-0.023033	-0.174411	0.00005	-0.00134	-0.00002
166	0.000122	0.017043	-0.180866	-0.00004	-0.00140	0.00001
	0.000127	0.013046	-0.180867	-0.00003	-0.00140	0.00001
	0.000142	0.012105	-0.180867	-0.00003	-0.00140	0.00001
	0.000147	0.008108	-0.180869	-0.00002	-0.00140	0.00001
	0.000099	0.044148	-0.180855	-0.00010	-0.00140	0.00004
	0.000103	0.040151	-0.180857	-0.00009	-0.00140	0.00003
	0.000118	0.039210	-0.180857	-0.00009	-0.00140	0.00003
	0.000123	0.035213	-0.180858	-0.00008	-0.00140	0.00003
	-0.000165	-0.041212	-0.180885	0.00009	-0.00140	-0.00003
	-0.000160	-0.045209	-0.180887	0.00010	-0.00140	-0.00004
	-0.000146	-0.046150	-0.180887	0.00010	-0.00140	-0.00004
	-0.000141	-0.050147	-0.180888	0.00011	-0.00140	-0.00004
	-0.000189	-0.014107	-0.180874	0.00003	-0.00140	-0.00001
	-0.000184	-0.018104	-0.180876	0.00004	-0.00140	-0.00001
	-0.000169	-0.019045	-0.180876	0.00004	-0.00140	-0.00002
	-0.000164	-0.023042	-0.180878	0.00005	-0.00140	-0.00002
167	0.004971	0.017054	-0.168514	-0.00005	-0.00134	0.00001
	0.003833	0.013058	-0.168447	-0.00004	-0.00134	0.00001
	0.003600	0.012114	-0.168434	-0.00004	-0.00134	0.00001
	0.002461	0.008118	-0.168367	-0.00003	-0.00134	0.00001
	0.012782	0.044154	-0.168975	-0.00011	-0.00132	0.00004
	0.011644	0.040158	-0.168907	-0.00010	-0.00133	0.00003
	0.011411	0.039214	-0.168894	-0.00010	-0.00133	0.00003
	0.010273	0.035219	-0.168827	-0.00009	-0.00133	0.00003
	-0.012100	-0.041215	-0.167508	0.00007	-0.00137	-0.00003

	-0.013239	-0.045211	-0.167440	0.00008	-0.00137	-0.00004
	-0.013472	-0.046155	-0.167427	0.00008	-0.00137	-0.00004
	-0.014610	-0.050150	-0.167360	0.00009	-0.00138	-0.00004
	-0.004289	-0.014115	-0.167968	0.00001	-0.00136	-0.00001
	-0.005427	-0.018110	-0.167901	0.00002	-0.00136	-0.00001
	-0.005661	-0.019054	-0.167888	0.00002	-0.00136	-0.00002
	-0.006799	-0.023050	-0.167821	0.00003	-0.00136	-0.00002
168	0.009905	0.017058	-0.131098	-0.00014	-0.00016	0.00001
	0.007617	0.013063	-0.131030	-0.00013	-0.00016	0.00001
	0.007142	0.012118	-0.131022	-0.00013	-0.00016	0.00001
	0.004855	0.008124	-0.130954	-0.00011	-0.00016	0.00001
	0.025544	0.044156	-0.131581	-0.00022	-0.00014	0.00003
	0.023257	0.040161	-0.131513	-0.00021	-0.00014	0.00003
	0.022781	0.039216	-0.131506	-0.00021	-0.00014	0.00003
	0.020494	0.035222	-0.131437	-0.00020	-0.00014	0.00003
	-0.024049	-0.041218	-0.130008	0.00003	-0.00020	-0.00003
	-0.026337	-0.045213	-0.129940	0.00004	-0.00020	-0.00004
	-0.026812	-0.046158	-0.129933	0.00005	-0.00020	-0.00004
	-0.029100	-0.050152	-0.129864	0.00006	-0.00020	-0.00004
	-0.008410	-0.014120	-0.130492	-0.00005	-0.00018	-0.00001
	-0.010697	-0.018115	-0.130423	-0.00004	-0.00018	-0.00001
	-0.011173	-0.019060	-0.130416	-0.00003	-0.00018	-0.00002
	-0.013460	-0.023054	-0.130347	-0.00002	-0.00018	-0.00002
169	0.019756	-0.012723	-0.143739	-0.00010	0.00059	0.00001
	0.015168	-0.009722	-0.143930	-0.00011	0.00058	0.00001
	0.014229	-0.009236	-0.143979	-0.00011	0.00058	0.00001
	0.009642	-0.006236	-0.144170	-0.00012	0.00057	0.00001
	0.051055	-0.033071	-0.142426	-0.00004	0.00064	0.00003
	0.046467	-0.030071	-0.142617	-0.00005	0.00063	0.00003
	0.045528	-0.029585	-0.142665	-0.00005	0.00063	0.00003
	0.040940	-0.026585	-0.142856	-0.00006	0.00062	0.00003
	-0.047961	0.031139	-0.146596	-0.00023	0.00048	-0.00003
	-0.052549	0.034140	-0.146787	-0.00024	0.00047	-0.00003
	-0.053488	0.034626	-0.146836	-0.00024	0.00047	-0.00003
	-0.058075	0.037626	-0.147027	-0.00025	0.00046	-0.00004
	-0.016662	0.010790	-0.145283	-0.00017	0.00053	-0.00001
	-0.021250	0.013791	-0.145474	-0.00018	0.00052	-0.00001
	-0.022189	0.014277	-0.145522	-0.00018	0.00052	-0.00001
	-0.026777	0.017277	-0.145714	-0.00019	0.00051	-0.00002
171	0.013052	0.004210	-0.576180	0.00167	0.00084	0.00002
	0.010029	0.003228	-0.576247	0.00167	0.00084	0.00001
	0.009404	0.002918	-0.576268	0.00167	0.00084	0.00001
	0.006381	0.001936	-0.576335	0.00167	0.00084	0.00001
	0.033697	0.010855	-0.575728	0.00167	0.00083	0.00004
	0.030675	0.009874	-0.575795	0.00167	0.00083	0.00004
	0.030049	0.009563	-0.575816	0.00167	0.00083	0.00004
	0.027026	0.008582	-0.575883	0.00167	0.00083	0.00003
	-0.031694	-0.010033	-0.577141	0.00166	0.00086	-0.00004
	-0.034717	-0.011015	-0.577208	0.00166	0.00086	-0.00004
	-0.035343	-0.011325	-0.577229	0.00166	0.00086	-0.00004
	-0.038365	-0.012307	-0.577296	0.00166	0.00086	-0.00005
	-0.011049	-0.003388	-0.576690	0.00166	0.00085	-0.00001
	-0.014072	-0.004370	-0.576757	0.00166	0.00085	-0.00002
	-0.014697	-0.004680	-0.576778	0.00166	0.00085	-0.00002
	-0.017720	-0.005662	-0.576845	0.00166	0.00085	-0.00002
172	0.037587	0.008371	-0.135662	0.00000	-0.00002	0.00002
	0.028820	0.006415	-0.135404	0.00001	-0.00004	0.00001
	0.027018	0.005880	-0.135310	0.00001	-0.00004	0.00001
	0.018251	0.003923	-0.135052	0.00002	-0.00006	0.00001
	0.097296	0.021625	-0.137398	-0.00005	0.00008	0.00004
	0.088529	0.019669	-0.137140	-0.00004	0.00006	0.00004
	0.086727	0.019134	-0.137046	-0.00004	0.00006	0.00004
	0.077960	0.017177	-0.136788	-0.00003	0.00004	0.00003
	-0.091328	-0.020097	-0.131960	0.00011	-0.00024	-0.00004
	-0.100095	-0.022054	-0.131702	0.00011	-0.00026	-0.00004
	-0.101897	-0.022589	-0.131608	0.00012	-0.00026	-0.00004
	-0.110664	-0.024546	-0.131350	0.00012	-0.00028	-0.00005
	-0.031619	-0.006844	-0.133696	0.00006	-0.00014	-0.00001
	-0.040386	-0.008800	-0.133438	0.00007	-0.00016	-0.00002
	-0.042188	-0.009335	-0.133344	0.00007	-0.00016	-0.00002
	-0.050955	-0.011292	-0.133086	0.00007	-0.00017	-0.00002
173	0.032324	0.003109	-0.142574	0.00003	0.00004	0.00002
	0.024791	0.002388	-0.140368	0.00003	0.00003	0.00001
	0.023244	0.002106	-0.139920	0.00003	0.00002	0.00001
	0.015711	0.001385	-0.137714	0.00003	0.00001	0.00001
	0.083649	0.007979	-0.157608	0.00004	0.00016	0.00004
	0.076115	0.007258	-0.155402	0.00004	0.00014	0.00004
	0.074569	0.006976	-0.154954	0.00004	0.00014	0.00004
	0.067035	0.006255	-0.152747	0.00004	0.00012	0.00003
	-0.078531	-0.007306	-0.110096	0.00003	-0.00020	-0.00004
	-0.086065	-0.008027	-0.107890	0.00003	-0.00022	-0.00004
	-0.087612	-0.008309	-0.107442	0.00003	-0.00022	-0.00004
	-0.095145	-0.009030	-0.105236	0.00003	-0.00024	-0.00005
	-0.027207	-0.002436	-0.125130	0.00003	-0.00009	-0.00001
	-0.034740	-0.003157	-0.122924	0.00003	-0.00011	-0.00002
	-0.036287	-0.003439	-0.122476	0.00003	-0.00011	-0.00002

	-0.043820	-0.004160	-0.120270	0.00003	-0.00013	-0.00002
174	0.019752	0.004218	-0.150883	-0.00064	0.00023	0.00001
	0.015164	0.003237	-0.150883	-0.00064	0.00022	0.00001
	0.014218	0.002913	-0.150886	-0.00064	0.00022	0.00001
	0.009630	0.001932	-0.150885	-0.00064	0.00021	0.00001
	0.051050	0.010860	-0.150889	-0.00067	0.00029	0.00004
	0.046462	0.009879	-0.150888	-0.00066	0.00028	0.00003
	0.045517	0.009555	-0.150892	-0.00066	0.00028	0.00003
	0.040929	0.008574	-0.150891	-0.00066	0.00027	0.00003
	-0.047964	-0.010015	-0.150867	-0.00060	0.00011	-0.00003
	-0.052552	-0.010996	-0.150867	-0.00059	0.00010	-0.00004
	-0.053497	-0.011320	-0.150870	-0.00059	0.00010	-0.00004
	-0.058085	-0.012302	-0.150869	-0.00059	0.00009	-0.00004
	-0.016665	-0.003373	-0.150873	-0.00062	0.00016	-0.00001
	-0.021253	-0.004354	-0.150872	-0.00062	0.00016	-0.00002
	-0.022199	-0.004678	-0.150876	-0.00061	0.00015	-0.00002
	-0.026787	-0.005659	-0.150875	-0.00061	0.00015	-0.00002
175	0.022585	0.004358	-0.098069	-0.00013	0.00025	0.00002
	0.017333	0.003343	-0.098605	-0.00013	0.00024	0.00001
	0.016249	0.003011	-0.098798	-0.00012	0.00024	0.00001
	0.010997	0.001996	-0.099333	-0.00012	0.00023	0.00001
	0.058395	0.011222	-0.094456	-0.00015	0.00031	0.00004
	0.053143	0.010207	-0.094991	-0.00015	0.00030	0.00004
	0.052059	0.009875	-0.095185	-0.00015	0.00030	0.00004
	0.046807	0.008860	-0.095720	-0.00014	0.00029	0.00003
	-0.054848	-0.010352	-0.105794	-0.00008	0.00013	-0.00004
	-0.060100	-0.011367	-0.106329	-0.00008	0.00012	-0.00004
	-0.061184	-0.011700	-0.106523	-0.00008	0.00012	-0.00004
	-0.066436	-0.012714	-0.107058	-0.00007	0.00011	-0.00005
	-0.019038	-0.003488	-0.102181	-0.00010	0.00018	-0.00001
	-0.024290	-0.004503	-0.102716	-0.00010	0.00018	-0.00002
	-0.025374	-0.004836	-0.102910	-0.00010	0.00017	-0.00002
	-0.030626	-0.005850	-0.103445	-0.00010	0.00017	-0.00002
176	0.023800	0.004358	-0.088707	-0.00011	0.00025	0.00002
	0.018264	0.003344	-0.089504	-0.00011	0.00024	0.00001
	0.017122	0.003011	-0.089787	-0.00011	0.00024	0.00001
	0.011587	0.001996	-0.090585	-0.00011	0.00023	0.00001
	0.061544	0.011222	-0.083316	-0.00014	0.00031	0.00004
	0.056009	0.010208	-0.084114	-0.00013	0.00030	0.00004
	0.054867	0.009875	-0.084396	-0.00013	0.00030	0.00004
	0.049332	0.008860	-0.085194	-0.00013	0.00029	0.00003
	-0.057805	-0.010352	-0.100239	-0.00007	0.00013	-0.00004
	-0.063341	-0.011366	-0.101036	-0.00006	0.00012	-0.00004
	-0.064483	-0.011700	-0.101319	-0.00006	0.00012	-0.00004
	-0.070018	-0.012714	-0.102117	-0.00006	0.00011	-0.00004
	-0.020061	-0.003488	-0.094848	-0.00009	0.00018	-0.00001
	-0.025596	-0.004502	-0.095646	-0.00009	0.00018	-0.00002
	-0.026738	-0.004836	-0.095928	-0.00008	0.00017	-0.00002
	-0.032273	-0.005850	-0.096726	-0.00008	0.00017	-0.00002
177	0.014831	0.000128	-0.163590	-0.00001	-0.00105	0.00001
	0.011393	0.000109	-0.163645	-0.00001	-0.00105	0.00001
	0.010680	-0.000012	-0.163655	-0.00001	-0.00105	0.00001
	0.007242	-0.000031	-0.163711	-0.00001	-0.00105	0.00001
	0.038302	0.000239	-0.163211	0.00000	-0.00102	0.00004
	0.034864	0.000220	-0.163267	0.00000	-0.00102	0.00003
	0.034151	0.000099	-0.163277	0.00000	-0.00102	0.00003
	0.030713	0.000079	-0.163332	0.00000	-0.00103	0.00003
	-0.036010	-0.000075	-0.164411	-0.00001	-0.00110	-0.00003
	-0.039447	-0.000094	-0.164467	-0.00001	-0.00111	-0.00004
	-0.040161	-0.000215	-0.164477	-0.00001	-0.00111	-0.00004
	-0.043599	-0.000234	-0.164532	-0.00001	-0.00111	-0.00004
	-0.012539	0.000036	-0.164033	-0.00001	-0.00108	-0.00001
	-0.015977	0.000017	-0.164088	-0.00001	-0.00108	-0.00002
	-0.016690	-0.000104	-0.164098	-0.00001	-0.00108	-0.00002
	-0.020128	-0.000123	-0.164153	-0.00001	-0.00109	-0.00002
178	0.014832	0.004212	-0.679138	0.00008	0.00223	0.00002
	0.011395	0.003231	-0.679040	0.00008	0.00223	0.00001
	0.010686	0.002916	-0.679013	0.00008	0.00223	0.00001
	0.007249	0.001934	-0.678914	0.00008	0.00223	0.00001
	0.038304	0.010856	-0.679806	0.00009	0.00222	0.00004
	0.034867	0.009875	-0.679708	0.00009	0.00222	0.00004
	0.034158	0.009560	-0.679680	0.00009	0.00222	0.00004
	0.030721	0.008578	-0.679582	0.00009	0.00223	0.00003
	-0.036019	-0.010026	-0.677697	0.00006	0.00223	-0.00004
	-0.039455	-0.011008	-0.677599	0.00006	0.00223	-0.00004
	-0.040164	-0.011323	-0.677571	0.00006	0.00223	-0.00004
	-0.043601	-0.012304	-0.677473	0.00006	0.00223	-0.00005
	-0.012547	-0.003382	-0.678364	0.00007	0.00223	-0.00001
	-0.015983	-0.004364	-0.678266	0.00007	0.00223	-0.00002
	-0.016692	-0.004679	-0.678239	0.00007	0.00223	-0.00002
	-0.020129	-0.005660	-0.678140	0.00007	0.00223	-0.00002
179	0.043494	0.009766	-0.177185	0.00031	0.00005	0.00002
	0.033341	0.007482	-0.178090	0.00031	0.00005	0.00001
	0.031254	0.006878	-0.178299	0.00031	0.00005	0.00001
	0.021101	0.004594	-0.179203	0.00032	0.00006	0.00001

	0.112616	0.025242	-0.171041	0.00028	0.00005	0.00004
	0.102463	0.022958	-0.171945	0.00028	0.00005	0.00004
	0.100376	0.022354	-0.172155	0.00028	0.00005	0.00004
	0.090223	0.020070	-0.173059	0.00029	0.00005	0.00003
	-0.105688	-0.023488	-0.190420	0.00037	0.00007	-0.00004
	-0.115841	-0.025772	-0.191324	0.00038	0.00007	-0.00004
	-0.117928	-0.026376	-0.191534	0.00038	0.00007	-0.00004
	-0.128081	-0.028660	-0.192438	0.00038	0.00007	-0.00005
	-0.036567	-0.008012	-0.184276	0.00034	0.00006	-0.00001
	-0.046720	-0.010296	-0.185180	0.00035	0.00006	-0.00002
	-0.048807	-0.010900	-0.185390	0.00035	0.00006	-0.00002
	-0.058960	-0.013184	-0.186294	0.00035	0.00006	-0.00002
180	0.030929	-0.002807	-0.139077	-0.00008	-0.00002	0.00002
	0.023723	-0.002141	-0.140259	-0.00008	-0.00003	0.00001
	0.022246	-0.002124	-0.140504	-0.00008	-0.00003	0.00001
	0.015039	-0.001459	-0.141686	-0.00008	-0.00004	0.00001
	0.080031	-0.007349	-0.131023	-0.00008	0.00003	0.00004
	0.072824	-0.006684	-0.132205	-0.00008	0.00002	0.00004
	0.071347	-0.006666	-0.132450	-0.00008	0.00002	0.00004
	0.064140	-0.006001	-0.133632	-0.00008	0.00001	0.00003
	-0.075137	0.007047	-0.156475	-0.00008	-0.00013	-0.00004
	-0.082343	0.007713	-0.157657	-0.00008	-0.00014	-0.00004
	-0.083821	0.007730	-0.157903	-0.00008	-0.00014	-0.00004
	-0.091027	0.008396	-0.159085	-0.00008	-0.00015	-0.00005
	-0.026035	0.002505	-0.148421	-0.00008	-0.00008	-0.00001
	-0.033242	0.003171	-0.149603	-0.00008	-0.00009	-0.00002
	-0.034719	0.003188	-0.149849	-0.00008	-0.00009	-0.00002
	-0.041926	0.003853	-0.151031	-0.00008	-0.00010	-0.00002
181	0.018031	0.010088	-0.127577	0.00016	-0.00008	0.00002
	0.013846	0.007728	-0.127242	0.00016	-0.00008	0.00001
	0.012980	0.007120	-0.127159	0.00016	-0.00008	0.00001
	0.008795	0.004759	-0.126824	0.00016	-0.00008	0.00001
	0.046590	0.026085	-0.129850	0.00013	-0.00008	0.00004
	0.042405	0.023724	-0.129516	0.00014	-0.00008	0.00004
	0.041540	0.023117	-0.129432	0.00014	-0.00008	0.00004
	0.037355	0.020756	-0.129097	0.00014	-0.00008	0.00003
	-0.043785	-0.024285	-0.122685	0.00020	-0.00009	-0.00004
	-0.047970	-0.026646	-0.122350	0.00021	-0.00009	-0.00004
	-0.048836	-0.027254	-0.122267	0.00021	-0.00009	-0.00004
	-0.053020	-0.029614	-0.121932	0.00021	-0.00010	-0.00005
	-0.015225	-0.008288	-0.124958	0.00018	-0.00009	-0.00001
	-0.019410	-0.010649	-0.124623	0.00019	-0.00009	-0.00002
	-0.020276	-0.011257	-0.124540	0.00019	-0.00009	-0.00002
	-0.024461	-0.013617	-0.124205	0.00019	-0.00009	-0.00002
183	0.029200	0.021258	-0.092197	-0.00003	-0.00001	0.00002
	0.022398	0.016276	-0.090924	-0.00002	-0.00002	0.00001
	0.020995	0.015127	-0.090654	-0.00002	-0.00002	0.00001
	0.014193	0.010146	-0.089381	-0.00002	-0.00003	0.00001
	0.075557	0.055052	-0.100863	-0.00005	0.00007	0.00004
	0.068755	0.050071	-0.099590	-0.00005	0.00006	0.00004
	0.067353	0.048922	-0.099320	-0.00005	0.00006	0.00004
	0.060551	0.043941	-0.098047	-0.00004	0.00005	0.00003
	-0.070955	-0.051432	-0.073493	0.00002	-0.00018	-0.00004
	-0.077757	-0.056413	-0.072220	0.00002	-0.00019	-0.00004
	-0.079159	-0.057562	-0.071950	0.00002	-0.00019	-0.00004
	-0.085961	-0.062543	-0.070677	0.00002	-0.00020	-0.00005
	-0.024597	-0.017637	-0.082159	0.00000	-0.00010	-0.00001
	-0.031399	-0.022618	-0.080886	0.00000	-0.00011	-0.00002
	-0.032801	-0.023767	-0.080616	0.00000	-0.00011	-0.00002
	-0.039603	-0.028748	-0.079343	0.00000	-0.00012	-0.00002

SPOSTAMENTI NODI

CASO DI CARICO : 5 SLU con SISMAY PRINC COMBINAZIONE

N. 3 CONDIZIONI ANALISI STATICA

1	Peso_proprio_____	+	1.00
2	Permanente_____	+	1.00
3	A:Var_____	+	0.60

N. 2 CASI DI CARICO

3	SISMAY SLU	1.00
2	SISMAX SLU	0.30

1)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.001	+0.30*c002.001
2)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.001	+0.30*c002.002
3)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.001	+0.30*c002.003
4)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.001	+0.30*c002.004
5)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.002	+0.30*c002.001
6)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.002	+0.30*c002.002
7)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.002	+0.30*c002.003
8)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.002	+0.30*c002.004
9)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.003	+0.30*c002.001

10) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c003.003 +0.30*c002.002
 11) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c003.003 +0.30*c002.003
 12) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c003.003 +0.30*c002.004
 13) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c003.004 +0.30*c002.001
 14) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c003.004 +0.30*c002.002
 15) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c003.004 +0.30*c002.003
 16) +1.00*c001 +1.00*c002 +0.60*c003 +1.00*c003.004 +0.30*c002.004
 Unità di misura: SX,SY,SZ [cm]; RX,RY,RZ [rad]

Coefficiente moltiplicativo: 1.000000

Nodo	SX	SY	SZ	RX	RY	RZ
1	0.000000	0.000000	-0.102035	0.00002	-0.00001	0.00000
	0.000000	0.000000	-0.101940	0.00002	-0.00001	0.00000
	0.000000	0.000000	-0.102240	0.00003	-0.00002	0.00000
	0.000000	0.000000	-0.102145	0.00003	-0.00002	0.00000
	0.000000	0.000000	-0.102190	0.00003	-0.00002	0.00000
	0.000000	0.000000	-0.102095	0.00002	-0.00002	0.00000
	0.000000	0.000000	-0.102395	0.00003	-0.00002	0.00000
	0.000000	0.000000	-0.102300	0.00003	-0.00002	0.00000
	0.000000	0.000000	-0.102224	0.00003	-0.00002	0.00000
	0.000000	0.000000	-0.102129	0.00003	-0.00002	0.00000
	0.000000	0.000000	-0.102429	0.00003	-0.00003	0.00000
	0.000000	0.000000	-0.102334	0.00003	-0.00002	0.00000
	0.000000	0.000000	-0.102379	0.00003	-0.00002	0.00000
	0.000000	0.000000	-0.102284	0.00003	-0.00002	0.00000
	0.000000	0.000000	-0.102584	0.00004	-0.00003	0.00000
	0.000000	0.000000	-0.102489	0.00003	-0.00003	0.00000
2	0.000000	0.000000	-0.092008	0.00000	0.00000	0.00000
	0.000000	0.000000	-0.091970	0.00001	0.00000	0.00000
	0.000000	0.000000	-0.092090	0.00000	-0.00001	0.00000
	0.000000	0.000000	-0.092052	0.00000	-0.00001	0.00000
	0.000000	0.000000	-0.092070	0.00000	-0.00001	0.00000
	0.000000	0.000000	-0.092032	0.00000	0.00000	0.00000
	0.000000	0.000000	-0.092152	-0.00001	-0.00001	0.00000
	0.000000	0.000000	-0.092114	-0.00001	-0.00001	0.00000
	0.000000	0.000000	-0.092083	0.00000	-0.00001	0.00000
	0.000000	0.000000	-0.092045	0.00000	0.00000	0.00000
	0.000000	0.000000	-0.092165	-0.00001	-0.00001	0.00000
	0.000000	0.000000	-0.092127	-0.00001	-0.00001	0.00000
	0.000000	0.000000	-0.092145	-0.00001	-0.00001	0.00000
	0.000000	0.000000	-0.092107	0.00000	-0.00001	0.00000
	0.000000	0.000000	-0.092227	-0.00001	-0.00002	0.00000
	0.000000	0.000000	-0.092189	-0.00001	-0.00002	0.00000
3	0.000000	0.000000	-0.101482	-0.00006	0.00002	0.00000
	0.000000	0.000000	-0.101938	-0.00006	0.00003	0.00000
	0.000000	0.000000	-0.100500	-0.00006	0.00001	0.00000
	0.000000	0.000000	-0.100956	-0.00006	0.00002	0.00000
	0.000000	0.000000	-0.100735	-0.00006	0.00002	0.00000
	0.000000	0.000000	-0.101192	-0.00006	0.00002	0.00000
	0.000000	0.000000	-0.099753	-0.00005	0.00000	0.00000
	0.000000	0.000000	-0.100209	-0.00005	0.00001	0.00000
	0.000000	0.000000	-0.100565	-0.00006	0.00001	0.00000
	0.000000	0.000000	-0.101021	-0.00006	0.00002	0.00000
	0.000000	0.000000	-0.099583	-0.00005	0.00000	0.00000
	0.000000	0.000000	-0.100039	-0.00005	0.00001	0.00000
	0.000000	0.000000	-0.099818	-0.00005	0.00001	0.00000
	0.000000	0.000000	-0.100275	-0.00005	0.00001	0.00000
	0.000000	0.000000	-0.098836	-0.00005	-0.00001	0.00000
	0.000000	0.000000	-0.099292	-0.00005	0.00000	0.00000
4	0.000000	0.000000	-0.114561	-0.00009	0.00002	0.00000
	0.000000	0.000000	-0.114506	-0.00009	0.00003	0.00000
	0.000000	0.000000	-0.114681	-0.00009	0.00001	0.00000
	0.000000	0.000000	-0.114625	-0.00009	0.00002	0.00000
	0.000000	0.000000	-0.114651	-0.00009	0.00001	0.00000
	0.000000	0.000000	-0.114596	-0.00009	0.00002	0.00000
	0.000000	0.000000	-0.114770	-0.00008	0.00000	0.00000
	0.000000	0.000000	-0.114715	-0.00008	0.00001	0.00000
	0.000000	0.000000	-0.114668	-0.00009	0.00001	0.00000
	0.000000	0.000000	-0.114613	-0.00009	0.00002	0.00000
	0.000000	0.000000	-0.114787	-0.00008	0.00000	0.00000
	0.000000	0.000000	-0.114732	-0.00008	0.00000	0.00000
	0.000000	0.000000	-0.114758	-0.00008	0.00000	0.00000
	0.000000	0.000000	-0.114703	-0.00008	0.00001	0.00000
	0.000000	0.000000	-0.114877	-0.00008	-0.00001	0.00000
	0.000000	0.000000	-0.114822	-0.00008	-0.00001	0.00000
5	0.000000	0.000000	-0.113958	-0.00004	0.00007	0.00000
	0.000000	0.000000	-0.113686	-0.00005	0.00007	0.00000
	0.000000	0.000000	-0.114545	-0.00003	0.00005	0.00000
	0.000000	0.000000	-0.114273	-0.00004	0.00006	0.00000
	0.000000	0.000000	-0.114403	-0.00003	0.00006	0.00000
	0.000000	0.000000	-0.114131	-0.00004	0.00006	0.00000
	0.000000	0.000000	-0.114990	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.114718	-0.00003	0.00005	0.00000
	0.000000	0.000000	-0.114500	-0.00003	0.00005	0.00000
	0.000000	0.000000	-0.114228	-0.00004	0.00006	0.00000
	0.000000	0.000000	-0.115087	-0.00002	0.00004	0.00000

	0.000000	0.000000	-0.114815	-0.00002	0.00005	0.00000
	0.000000	0.000000	-0.114945	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.114673	-0.00003	0.00005	0.00000
	0.000000	0.000000	-0.115532	-0.00001	0.00003	0.00000
	0.000000	0.000000	-0.115260	-0.00001	0.00004	0.00000
6	0.000000	0.000000	-0.132510	-0.00005	0.00008	0.00000
	0.000000	0.000000	-0.134281	-0.00006	0.00009	0.00000
	0.000000	0.000000	-0.128691	-0.00004	0.00006	0.00000
	0.000000	0.000000	-0.130462	-0.00005	0.00007	0.00000
	0.000000	0.000000	-0.129617	-0.00004	0.00007	0.00000
	0.000000	0.000000	-0.131388	-0.00005	0.00008	0.00000
	0.000000	0.000000	-0.125799	-0.00003	0.00004	0.00000
	0.000000	0.000000	-0.127569	-0.00004	0.00005	0.00000
	0.000000	0.000000	-0.128981	-0.00004	0.00006	0.00000
	0.000000	0.000000	-0.130752	-0.00005	0.00007	0.00000
	0.000000	0.000000	-0.125163	-0.00003	0.00004	0.00000
	0.000000	0.000000	-0.126934	-0.00004	0.00005	0.00000
	0.000000	0.000000	-0.126089	-0.00003	0.00005	0.00000
	0.000000	0.000000	-0.127859	-0.00004	0.00006	0.00000
	0.000000	0.000000	-0.122270	-0.00002	0.00002	0.00000
	0.000000	0.000000	-0.124041	-0.00003	0.00003	0.00000
10	0.000000	0.000000	-0.075962	-0.00003	-0.00007	0.00000
	0.000000	0.000000	-0.076879	-0.00004	-0.00006	0.00000
	0.000000	0.000000	-0.073978	-0.00003	-0.00009	0.00000
	0.000000	0.000000	-0.074895	-0.00003	-0.00008	0.00000
	0.000000	0.000000	-0.074468	-0.00003	-0.00008	0.00000
	0.000000	0.000000	-0.075386	-0.00003	-0.00008	0.00000
	0.000000	0.000000	-0.072485	-0.00003	-0.00010	0.00000
	0.000000	0.000000	-0.073402	-0.00003	-0.00009	0.00000
	0.000000	0.000000	-0.074178	-0.00003	-0.00008	0.00000
	0.000000	0.000000	-0.075095	-0.00003	-0.00008	0.00000
	0.000000	0.000000	-0.072195	-0.00003	-0.00010	0.00000
	0.000000	0.000000	-0.073112	-0.00003	-0.00009	0.00000
	0.000000	0.000000	-0.072685	-0.00003	-0.00009	0.00000
	0.000000	0.000000	-0.073602	-0.00003	-0.00009	0.00000
	0.000000	0.000000	-0.070701	-0.00003	-0.00011	0.00000
	0.000000	0.000000	-0.071618	-0.00003	-0.00010	0.00000
11	0.000000	0.000000	-0.120453	-0.00003	-0.00012	0.00000
	0.000000	0.000000	-0.119752	-0.00002	-0.00011	0.00000
	0.000000	0.000000	-0.121966	-0.00003	-0.00012	0.00000
	0.000000	0.000000	-0.121265	-0.00003	-0.00012	0.00000
	0.000000	0.000000	-0.121595	-0.00003	-0.00012	0.00000
	0.000000	0.000000	-0.120894	-0.00003	-0.00012	0.00000
	0.000000	0.000000	-0.123108	-0.00003	-0.00013	0.00000
	0.000000	0.000000	-0.122407	-0.00003	-0.00013	0.00000
	0.000000	0.000000	-0.121826	-0.00003	-0.00012	0.00000
	0.000000	0.000000	-0.121126	-0.00003	-0.00012	0.00000
	0.000000	0.000000	-0.123339	-0.00004	-0.00013	0.00000
	0.000000	0.000000	-0.122639	-0.00003	-0.00013	0.00000
	0.000000	0.000000	-0.122968	-0.00003	-0.00013	0.00000
	0.000000	0.000000	-0.122268	-0.00003	-0.00013	0.00000
	0.000000	0.000000	-0.124481	-0.00004	-0.00014	0.00000
	0.000000	0.000000	-0.123781	-0.00004	-0.00013	0.00000
15	0.000000	0.000000	-0.083641	-0.00002	-0.00007	0.00000
	0.000000	0.000000	-0.085008	-0.00002	-0.00006	0.00000
	0.000000	0.000000	-0.080689	-0.00002	-0.00010	0.00000
	0.000000	0.000000	-0.082055	-0.00002	-0.00009	0.00000
	0.000000	0.000000	-0.081412	-0.00002	-0.00009	0.00000
	0.000000	0.000000	-0.082779	-0.00002	-0.00008	0.00000
	0.000000	0.000000	-0.078460	-0.00001	-0.00012	0.00000
	0.000000	0.000000	-0.079827	-0.00001	-0.00011	0.00000
	0.000000	0.000000	-0.080954	-0.00002	-0.00010	0.00000
	0.000000	0.000000	-0.082321	-0.00002	-0.00009	0.00000
	0.000000	0.000000	-0.078002	-0.00001	-0.00013	0.00000
	0.000000	0.000000	-0.079369	-0.00001	-0.00011	0.00000
	0.000000	0.000000	-0.078726	-0.00001	-0.00012	0.00000
	0.000000	0.000000	-0.080092	-0.00001	-0.00011	0.00000
	0.000000	0.000000	-0.075773	-0.00001	-0.00015	0.00000
	0.000000	0.000000	-0.077140	-0.00001	-0.00013	0.00000
16	0.000000	0.000000	-0.094975	-0.00002	-0.00008	0.00000
	0.000000	0.000000	-0.094813	-0.00002	-0.00007	0.00000
	0.000000	0.000000	-0.095325	-0.00002	-0.00010	0.00000
	0.000000	0.000000	-0.095163	-0.00002	-0.00009	0.00000
	0.000000	0.000000	-0.095238	-0.00002	-0.00010	0.00000
	0.000000	0.000000	-0.095076	-0.00002	-0.00009	0.00000
	0.000000	0.000000	-0.095589	-0.00002	-0.00012	0.00000
	0.000000	0.000000	-0.095427	-0.00002	-0.00011	0.00000
	0.000000	0.000000	-0.095283	-0.00002	-0.00010	0.00000
	0.000000	0.000000	-0.095121	-0.00002	-0.00009	0.00000
	0.000000	0.000000	-0.095634	-0.00002	-0.00013	0.00000
	0.000000	0.000000	-0.095472	-0.00002	-0.00011	0.00000
	0.000000	0.000000	-0.095546	-0.00002	-0.00012	0.00000
	0.000000	0.000000	-0.095384	-0.00002	-0.00011	0.00000
	0.000000	0.000000	-0.095897	-0.00002	-0.00014	0.00000
	0.000000	0.000000	-0.095735	-0.00002	-0.00013	0.00000

17	0.000000	0.000000	-0.127837	-0.00007	-0.00007	0.00000
	0.000000	0.000000	-0.128054	-0.00007	-0.00006	0.00000
	0.000000	0.000000	-0.127369	-0.00007	-0.00007	0.00000
	0.000000	0.000000	-0.127586	-0.00007	-0.00007	0.00000
	0.000000	0.000000	-0.127484	-0.00007	-0.00007	0.00000
	0.000000	0.000000	-0.127701	-0.00007	-0.00007	0.00000
	0.000000	0.000000	-0.127016	-0.00006	-0.00007	0.00000
	0.000000	0.000000	-0.127233	-0.00007	-0.00007	0.00000
	0.000000	0.000000	-0.127407	-0.00007	-0.00007	0.00000
	0.000000	0.000000	-0.127623	-0.00007	-0.00007	0.00000
	0.000000	0.000000	-0.126939	-0.00006	-0.00007	0.00000
	0.000000	0.000000	-0.127155	-0.00006	-0.00007	0.00000
	0.000000	0.000000	-0.127053	-0.00006	-0.00007	0.00000
	0.000000	0.000000	-0.127270	-0.00007	-0.00007	0.00000
	0.000000	0.000000	-0.126585	-0.00006	-0.00007	0.00000
	0.000000	0.000000	-0.126802	-0.00006	-0.00007	0.00000
18	0.000000	0.000000	-0.092368	-0.00003	0.00000	0.00000
	0.000000	0.000000	-0.094007	-0.00004	0.00002	0.00000
	0.000000	0.000000	-0.088833	-0.00002	-0.00004	0.00000
	0.000000	0.000000	-0.090472	-0.00003	-0.00002	0.00000
	0.000000	0.000000	-0.089690	-0.00002	-0.00003	0.00000
	0.000000	0.000000	-0.091329	-0.00003	-0.00001	0.00000
	0.000000	0.000000	-0.086155	-0.00001	-0.00007	0.00000
	0.000000	0.000000	-0.087794	-0.00001	-0.00005	0.00000
	0.000000	0.000000	-0.089109	-0.00002	-0.00003	0.00000
	0.000000	0.000000	-0.090748	-0.00003	-0.00002	0.00000
	0.000000	0.000000	-0.085574	0.00000	-0.00007	0.00000
	0.000000	0.000000	-0.087214	-0.00001	-0.00005	0.00000
	0.000000	0.000000	-0.086432	-0.00001	-0.00006	0.00000
	0.000000	0.000000	-0.088071	-0.00002	-0.00005	0.00000
	0.000000	0.000000	-0.082897	0.00001	-0.00010	0.00000
	0.000000	0.000000	-0.084536	0.00000	-0.00008	0.00000
19	0.000000	0.000000	-0.091255	-0.00004	0.00000	0.00000
	0.000000	0.000000	-0.094230	-0.00005	0.00002	0.00000
	0.000000	0.000000	-0.084836	-0.00003	-0.00004	0.00000
	0.000000	0.000000	-0.087811	-0.00003	-0.00003	0.00000
	0.000000	0.000000	-0.086397	-0.00003	-0.00003	0.00000
	0.000000	0.000000	-0.089372	-0.00004	-0.00002	0.00000
	0.000000	0.000000	-0.079978	-0.00002	-0.00008	0.00000
	0.000000	0.000000	-0.082953	-0.00002	-0.00006	0.00000
	0.000000	0.000000	-0.085356	-0.00003	-0.00004	0.00000
	0.000000	0.000000	-0.088332	-0.00003	-0.00002	0.00000
	0.000000	0.000000	-0.078937	-0.00001	-0.00008	0.00000
	0.000000	0.000000	-0.081912	-0.00002	-0.00006	0.00000
	0.000000	0.000000	-0.080498	-0.00002	-0.00007	0.00000
	0.000000	0.000000	-0.083473	-0.00002	-0.00005	0.00000
	0.000000	0.000000	-0.074079	0.00000	-0.00011	0.00000
	0.000000	0.000000	-0.077054	-0.00001	-0.00009	0.00000
28	0.000000	0.000000	-0.077870	0.00004	-0.00007	0.00000
	0.000000	0.000000	-0.078922	0.00004	-0.00006	0.00000
	0.000000	0.000000	-0.075590	0.00004	-0.00008	0.00000
	0.000000	0.000000	-0.076643	0.00004	-0.00008	0.00000
	0.000000	0.000000	-0.076157	0.00004	-0.00008	0.00000
	0.000000	0.000000	-0.077210	0.00004	-0.00007	0.00000
	0.000000	0.000000	-0.073878	0.00004	-0.00009	0.00000
	0.000000	0.000000	-0.074931	0.00004	-0.00009	0.00000
	0.000000	0.000000	-0.075845	0.00004	-0.00008	0.00000
	0.000000	0.000000	-0.076898	0.00004	-0.00008	0.00000
	0.000000	0.000000	-0.073566	0.00004	-0.00009	0.00000
	0.000000	0.000000	-0.074619	0.00004	-0.00009	0.00000
	0.000000	0.000000	-0.074133	0.00004	-0.00009	0.00000
	0.000000	0.000000	-0.075186	0.00004	-0.00009	0.00000
	0.000000	0.000000	-0.071854	0.00004	-0.00010	0.00000
	0.000000	0.000000	-0.072906	0.00004	-0.00010	0.00000
30	0.000000	0.000000	-0.094300	0.00001	0.00002	0.00000
	0.000000	0.000000	-0.093822	0.00001	0.00003	0.00000
	0.000000	0.000000	-0.095329	0.00001	0.00001	0.00000
	0.000000	0.000000	-0.094850	0.00001	0.00001	0.00000
	0.000000	0.000000	-0.095084	0.00001	0.00001	0.00000
	0.000000	0.000000	-0.094606	0.00001	0.00002	0.00000
	0.000000	0.000000	-0.096113	0.00001	0.00000	0.00000
	0.000000	0.000000	-0.095634	0.00001	0.00000	0.00000
	0.000000	0.000000	-0.095283	0.00001	0.00001	0.00000
	0.000000	0.000000	-0.094805	0.00001	0.00002	0.00000
	0.000000	0.000000	-0.096312	0.00001	0.00000	0.00000
	0.000000	0.000000	-0.095834	0.00001	0.00000	0.00000
	0.000000	0.000000	-0.096068	0.00001	0.00000	0.00000
	0.000000	0.000000	-0.095589	0.00001	0.00001	0.00000
	0.000000	0.000000	-0.097096	0.00001	-0.00001	0.00000
	0.000000	0.000000	-0.096618	0.00001	-0.00001	0.00000
31	0.000000	0.000000	-0.094678	-0.00006	0.00003	0.00000
	0.000000	0.000000	-0.092113	-0.00006	0.00004	0.00000
	0.000000	0.000000	-0.100210	-0.00005	0.00000	0.00000
	0.000000	0.000000	-0.097645	-0.00006	0.00001	0.00000
	0.000000	0.000000	-0.098866	-0.00005	0.00001	0.00000
	0.000000	0.000000	-0.096301	-0.00006	0.00002	0.00000

	0.000000	0.000000	-0.104398	-0.00005	-0.00002	0.00000
	0.000000	0.000000	-0.101833	-0.00005	-0.00001	0.00000
	0.000000	0.000000	-0.099764	-0.00005	0.00000	0.00000
	0.000000	0.000000	-0.097199	-0.00006	0.00001	0.00000
	0.000000	0.000000	-0.105296	-0.00005	-0.00002	0.00000
	0.000000	0.000000	-0.102731	-0.00005	-0.00001	0.00000
	0.000000	0.000000	-0.103952	-0.00005	-0.00002	0.00000
	0.000000	0.000000	-0.101387	-0.00005	0.00000	0.00000
	0.000000	0.000000	-0.109484	-0.00004	-0.00004	0.00000
	0.000000	0.000000	-0.106919	-0.00004	-0.00003	0.00000
32	0.000000	0.000000	-0.113023	-0.00006	0.00004	0.00000
	0.000000	0.000000	-0.112367	-0.00006	0.00004	0.00000
	0.000000	0.000000	-0.114434	-0.00005	0.00004	0.00000
	0.000000	0.000000	-0.113778	-0.00006	0.00004	0.00000
	0.000000	0.000000	-0.114096	-0.00006	0.00004	0.00000
	0.000000	0.000000	-0.113440	-0.00006	0.00004	0.00000
	0.000000	0.000000	-0.115507	-0.00005	0.00004	0.00000
	0.000000	0.000000	-0.114851	-0.00005	0.00004	0.00000
	0.000000	0.000000	-0.114351	-0.00005	0.00004	0.00000
	0.000000	0.000000	-0.113696	-0.00006	0.00004	0.00000
	0.000000	0.000000	-0.115762	-0.00005	0.00004	0.00000
	0.000000	0.000000	-0.115107	-0.00005	0.00004	0.00000
	0.000000	0.000000	-0.115424	-0.00005	0.00004	0.00000
	0.000000	0.000000	-0.114769	-0.00005	0.00004	0.00000
	0.000000	0.000000	-0.116835	-0.00005	0.00005	0.00000
	0.000000	0.000000	-0.116180	-0.00005	0.00004	0.00000
33	0.000000	0.000000	-0.127484	-0.00005	-0.00002	0.00000
	0.000000	0.000000	-0.126696	-0.00005	-0.00001	0.00000
	0.000000	0.000000	-0.129183	-0.00006	-0.00003	0.00000
	0.000000	0.000000	-0.128395	-0.00005	-0.00002	0.00000
	0.000000	0.000000	-0.128771	-0.00005	-0.00003	0.00000
	0.000000	0.000000	-0.127983	-0.00005	-0.00002	0.00000
	0.000000	0.000000	-0.130470	-0.00006	-0.00003	0.00000
	0.000000	0.000000	-0.129682	-0.00006	-0.00003	0.00000
	0.000000	0.000000	-0.129052	-0.00005	-0.00003	0.00000
	0.000000	0.000000	-0.128265	-0.00005	-0.00002	0.00000
	0.000000	0.000000	-0.130751	-0.00006	-0.00004	0.00000
	0.000000	0.000000	-0.129964	-0.00006	-0.00003	0.00000
	0.000000	0.000000	-0.130339	-0.00006	-0.00003	0.00000
	0.000000	0.000000	-0.129552	-0.00006	-0.00003	0.00000
	0.000000	0.000000	-0.132038	-0.00006	-0.00004	0.00000
	0.000000	0.000000	-0.131250	-0.00006	-0.00004	0.00000
35	0.000000	0.000000	-0.084752	-0.00001	-0.00006	0.00000
	0.000000	0.000000	-0.086812	-0.00002	-0.00004	0.00000
	0.000000	0.000000	-0.080304	-0.00001	-0.00009	0.00000
	0.000000	0.000000	-0.082364	-0.00001	-0.00007	0.00000
	0.000000	0.000000	-0.081389	-0.00001	-0.00008	0.00000
	0.000000	0.000000	-0.083449	-0.00001	-0.00007	0.00000
	0.000000	0.000000	-0.076941	0.00000	-0.00011	0.00000
	0.000000	0.000000	-0.079001	0.00000	-0.00010	0.00000
	0.000000	0.000000	-0.080680	-0.00001	-0.00009	0.00000
	0.000000	0.000000	-0.082741	-0.00001	-0.00007	0.00000
	0.000000	0.000000	-0.076232	0.00000	-0.00012	0.00000
	0.000000	0.000000	-0.078293	0.00000	-0.00010	0.00000
	0.000000	0.000000	-0.077317	0.00000	-0.00011	0.00000
	0.000000	0.000000	-0.079378	0.00000	-0.00010	0.00000
	0.000000	0.000000	-0.072869	0.00000	-0.00014	0.00000
	0.000000	0.000000	-0.074930	0.00000	-0.00013	0.00000
37	0.000000	0.000000	-0.109391	-0.00007	-0.00003	0.00000
	0.000000	0.000000	-0.109385	-0.00006	-0.00003	0.00000
	0.000000	0.000000	-0.109404	-0.00007	-0.00004	0.00000
	0.000000	0.000000	-0.109397	-0.00007	-0.00003	0.00000
	0.000000	0.000000	-0.109402	-0.00007	-0.00004	0.00000
	0.000000	0.000000	-0.109395	-0.00007	-0.00003	0.00000
	0.000000	0.000000	-0.109414	-0.00008	-0.00004	0.00000
	0.000000	0.000000	-0.109408	-0.00007	-0.00004	0.00000
	0.000000	0.000000	-0.109410	-0.00007	-0.00004	0.00000
	0.000000	0.000000	-0.109404	-0.00007	-0.00003	0.00000
	0.000000	0.000000	-0.109423	-0.00008	-0.00004	0.00000
	0.000000	0.000000	-0.109416	-0.00007	-0.00004	0.00000
	0.000000	0.000000	-0.109421	-0.00008	-0.00004	0.00000
	0.000000	0.000000	-0.109414	-0.00007	-0.00004	0.00000
	0.000000	0.000000	-0.109433	-0.00008	-0.00005	0.00000
	0.000000	0.000000	-0.109427	-0.00008	-0.00005	0.00000
38	0.000000	0.000000	-0.140886	-0.00012	-0.00001	0.00000
	0.000000	0.000000	-0.140912	-0.00012	-0.00001	0.00000
	0.000000	0.000000	-0.140828	-0.00012	-0.00001	0.00000
	0.000000	0.000000	-0.140854	-0.00012	-0.00001	0.00000
	0.000000	0.000000	-0.140842	-0.00012	-0.00001	0.00000
	0.000000	0.000000	-0.140869	-0.00012	-0.00001	0.00000
	0.000000	0.000000	-0.140784	-0.00012	-0.00001	0.00000
	0.000000	0.000000	-0.140810	-0.00012	-0.00001	0.00000
	0.000000	0.000000	-0.140831	-0.00012	-0.00001	0.00000
	0.000000	0.000000	-0.140858	-0.00012	-0.00001	0.00000
	0.000000	0.000000	-0.140773	-0.00012	-0.00001	0.00000
	0.000000	0.000000	-0.140800	-0.00012	-0.00001	0.00000

	0.000000	0.000000	-0.140787	-0.00012	-0.00001	0.00000
	0.000000	0.000000	-0.140814	-0.00012	-0.00001	0.00000
	0.000000	0.000000	-0.140729	-0.00012	-0.00001	0.00000
	0.000000	0.000000	-0.140756	-0.00012	-0.00001	0.00000
39	0.000000	0.000000	-0.128532	-0.00011	0.00001	0.00000
	0.000000	0.000000	-0.127797	-0.00011	0.00002	0.00000
	0.000000	0.000000	-0.130121	-0.00011	0.00000	0.00000
	0.000000	0.000000	-0.129386	-0.00011	0.00001	0.00000
	0.000000	0.000000	-0.129731	-0.00011	0.00000	0.00000
	0.000000	0.000000	-0.128995	-0.00011	0.00001	0.00000
	0.000000	0.000000	-0.131319	-0.00011	-0.00001	0.00000
	0.000000	0.000000	-0.130584	-0.00011	0.00000	0.00000
	0.000000	0.000000	-0.129968	-0.00011	0.00000	0.00000
	0.000000	0.000000	-0.129232	-0.00011	0.00001	0.00000
	0.000000	0.000000	-0.131556	-0.00011	-0.00001	0.00000
	0.000000	0.000000	-0.130821	-0.00011	0.00000	0.00000
	0.000000	0.000000	-0.131166	-0.00011	0.00000	0.00000
	0.000000	0.000000	-0.130431	-0.00011	0.00000	0.00000
	0.000000	0.000000	-0.132755	-0.00011	-0.00001	0.00000
	0.000000	0.000000	-0.132020	-0.00011	-0.00001	0.00000
40	0.000000	0.000000	-0.144164	-0.00002	-0.00004	0.00000
	0.000000	0.000000	-0.143992	-0.00002	-0.00004	0.00000
	0.000000	0.000000	-0.144536	-0.00003	-0.00006	0.00000
	0.000000	0.000000	-0.144364	-0.00002	-0.00005	0.00000
	0.000000	0.000000	-0.144444	-0.00002	-0.00006	0.00000
	0.000000	0.000000	-0.144272	-0.00002	-0.00005	0.00000
	0.000000	0.000000	-0.144816	-0.00003	-0.00007	0.00000
	0.000000	0.000000	-0.144644	-0.00003	-0.00006	0.00000
	0.000000	0.000000	-0.144490	-0.00002	-0.00006	0.00000
	0.000000	0.000000	-0.144319	-0.00002	-0.00005	0.00000
	0.000000	0.000000	-0.144862	-0.00003	-0.00007	0.00000
	0.000000	0.000000	-0.144690	-0.00003	-0.00007	0.00000
	0.000000	0.000000	-0.144770	-0.00003	-0.00007	0.00000
	0.000000	0.000000	-0.144599	-0.00003	-0.00006	0.00000
	0.000000	0.000000	-0.145142	-0.00004	-0.00008	0.00000
	0.000000	0.000000	-0.144970	-0.00003	-0.00008	0.00000
41	0.000000	0.000000	-0.113561	-0.00007	-0.00003	0.00000
	0.000000	0.000000	-0.113298	-0.00006	-0.00002	0.00000
	0.000000	0.000000	-0.114128	-0.00007	-0.00004	0.00000
	0.000000	0.000000	-0.113865	-0.00007	-0.00003	0.00000
	0.000000	0.000000	-0.113988	-0.00007	-0.00004	0.00000
	0.000000	0.000000	-0.113726	-0.00007	-0.00003	0.00000
	0.000000	0.000000	-0.114555	-0.00007	-0.00005	0.00000
	0.000000	0.000000	-0.114293	-0.00007	-0.00004	0.00000
	0.000000	0.000000	-0.114069	-0.00007	-0.00004	0.00000
	0.000000	0.000000	-0.113807	-0.00007	-0.00003	0.00000
	0.000000	0.000000	-0.114636	-0.00007	-0.00005	0.00000
	0.000000	0.000000	-0.114374	-0.00007	-0.00004	0.00000
	0.000000	0.000000	-0.114496	-0.00007	-0.00004	0.00000
	0.000000	0.000000	-0.114234	-0.00007	-0.00004	0.00000
	0.000000	0.000000	-0.115063	-0.00008	-0.00005	0.00000
	0.000000	0.000000	-0.114801	-0.00007	-0.00005	0.00000
42	0.000000	0.000000	-0.115416	-0.00005	0.00007	0.00000
	0.000000	0.000000	-0.115373	-0.00005	0.00007	0.00000
	0.000000	0.000000	-0.115507	-0.00005	0.00007	0.00000
	0.000000	0.000000	-0.115465	-0.00005	0.00007	0.00000
	0.000000	0.000000	-0.115485	-0.00005	0.00007	0.00000
	0.000000	0.000000	-0.115443	-0.00005	0.00007	0.00000
	0.000000	0.000000	-0.115577	-0.00005	0.00007	0.00000
	0.000000	0.000000	-0.115534	-0.00005	0.00007	0.00000
	0.000000	0.000000	-0.115494	-0.00005	0.00007	0.00000
	0.000000	0.000000	-0.115452	-0.00005	0.00007	0.00000
	0.000000	0.000000	-0.115586	-0.00005	0.00007	0.00000
	0.000000	0.000000	-0.115544	-0.00005	0.00007	0.00000
	0.000000	0.000000	-0.115564	-0.00005	0.00007	0.00000
	0.000000	0.000000	-0.115521	-0.00005	0.00007	0.00000
	0.000000	0.000000	-0.115656	-0.00005	0.00007	0.00000
	0.000000	0.000000	-0.115613	-0.00005	0.00007	0.00000
43	0.000000	0.000000	-0.105645	-0.00002	0.00008	0.00000
	0.000000	0.000000	-0.106143	-0.00002	0.00009	0.00000
	0.000000	0.000000	-0.104567	-0.00002	0.00007	0.00000
	0.000000	0.000000	-0.105066	-0.00002	0.00007	0.00000
	0.000000	0.000000	-0.104832	-0.00002	0.00007	0.00000
	0.000000	0.000000	-0.105331	-0.00002	0.00008	0.00000
	0.000000	0.000000	-0.103755	-0.00003	0.00006	0.00000
	0.000000	0.000000	-0.104253	-0.00003	0.00006	0.00000
	0.000000	0.000000	-0.104674	-0.00002	0.00007	0.00000
	0.000000	0.000000	-0.105173	-0.00002	0.00008	0.00000
	0.000000	0.000000	-0.103597	-0.00003	0.00005	0.00000
	0.000000	0.000000	-0.104095	-0.00003	0.00006	0.00000
	0.000000	0.000000	-0.103862	-0.00003	0.00006	0.00000
	0.000000	0.000000	-0.104360	-0.00002	0.00006	0.00000
	0.000000	0.000000	-0.102784	-0.00003	0.00004	0.00000
	0.000000	0.000000	-0.103283	-0.00003	0.00005	0.00000
44	0.000000	0.000000	-0.091779	0.00000	-0.00002	0.00000

	0.000000	0.000000	-0.090557	0.00000	-0.00002	0.00000
	0.000000	0.000000	-0.094419	0.00000	-0.00004	0.00000
	0.000000	0.000000	-0.093197	0.00000	-0.00003	0.00000
	0.000000	0.000000	-0.093771	0.00000	-0.00003	0.00000
	0.000000	0.000000	-0.092549	0.00000	-0.00003	0.00000
	0.000000	0.000000	-0.096411	0.00001	-0.00004	0.00000
	0.000000	0.000000	-0.095189	0.00000	-0.00004	0.00000
	0.000000	0.000000	-0.094181	0.00000	-0.00003	0.00000
	0.000000	0.000000	-0.092959	0.00000	-0.00003	0.00000
	0.000000	0.000000	-0.096821	0.00001	-0.00005	0.00000
	0.000000	0.000000	-0.095599	0.00000	-0.00004	0.00000
	0.000000	0.000000	-0.096173	0.00001	-0.00004	0.00000
	0.000000	0.000000	-0.094951	0.00000	-0.00004	0.00000
	0.000000	0.000000	-0.098813	0.00001	-0.00006	0.00000
	0.000000	0.000000	-0.097591	0.00001	-0.00005	0.00000
45	0.000000	0.000000	-0.095200	-0.00002	0.00006	0.00000
	0.000000	0.000000	-0.093987	-0.00002	0.00006	0.00000
	0.000000	0.000000	-0.097818	-0.00001	0.00005	0.00000
	0.000000	0.000000	-0.096605	-0.00001	0.00006	0.00000
	0.000000	0.000000	-0.097179	-0.00001	0.00005	0.00000
	0.000000	0.000000	-0.095966	-0.00002	0.00006	0.00000
	0.000000	0.000000	-0.099797	-0.00001	0.00005	0.00000
	0.000000	0.000000	-0.098584	-0.00001	0.00005	0.00000
	0.000000	0.000000	-0.097632	-0.00001	0.00005	0.00000
	0.000000	0.000000	-0.096419	-0.00002	0.00006	0.00000
	0.000000	0.000000	-0.100251	0.00000	0.00005	0.00000
	0.000000	0.000000	-0.099038	-0.00001	0.00005	0.00000
	0.000000	0.000000	-0.099611	-0.00001	0.00005	0.00000
	0.000000	0.000000	-0.098398	-0.00001	0.00005	0.00000
	0.000000	0.000000	-0.102229	0.00000	0.00004	0.00000
	0.000000	0.000000	-0.101016	0.00000	0.00004	0.00000
46	0.000000	0.000000	-0.134696	-0.00010	0.00005	0.00000
	0.000000	0.000000	-0.136284	-0.00010	0.00006	0.00000
	0.000000	0.000000	-0.131268	-0.00009	0.00003	0.00000
	0.000000	0.000000	-0.132856	-0.00009	0.00004	0.00000
	0.000000	0.000000	-0.132105	-0.00009	0.00003	0.00000
	0.000000	0.000000	-0.133693	-0.00009	0.00004	0.00000
	0.000000	0.000000	-0.128677	-0.00009	0.00001	0.00000
	0.000000	0.000000	-0.130265	-0.00009	0.00002	0.00000
	0.000000	0.000000	-0.131533	-0.00009	0.00003	0.00000
	0.000000	0.000000	-0.133121	-0.00009	0.00004	0.00000
	0.000000	0.000000	-0.128105	-0.00009	0.00001	0.00000
	0.000000	0.000000	-0.129693	-0.00009	0.00002	0.00000
	0.000000	0.000000	-0.128942	-0.00009	0.00001	0.00000
	0.000000	0.000000	-0.130530	-0.00009	0.00002	0.00000
	0.000000	0.000000	-0.125514	-0.00008	-0.00001	0.00000
	0.000000	0.000000	-0.127102	-0.00009	0.00000	0.00000
47	0.000000	0.000000	-0.128467	0.00000	-0.00015	0.00000
	0.000000	0.000000	-0.128420	0.00000	-0.00015	0.00000
	0.000000	0.000000	-0.128565	0.00000	-0.00015	0.00000
	0.000000	0.000000	-0.128518	0.00000	-0.00015	0.00000
	0.000000	0.000000	-0.128542	0.00000	-0.00015	0.00000
	0.000000	0.000000	-0.128495	0.00000	-0.00015	0.00000
	0.000000	0.000000	-0.128639	0.00000	-0.00014	0.00000
	0.000000	0.000000	-0.128593	0.00000	-0.00015	0.00000
	0.000000	0.000000	-0.128569	0.00000	-0.00015	0.00000
	0.000000	0.000000	-0.128522	0.00000	-0.00015	0.00000
	0.000000	0.000000	-0.128667	0.00000	-0.00014	0.00000
	0.000000	0.000000	-0.128620	0.00000	-0.00014	0.00000
	0.000000	0.000000	-0.128644	0.00000	-0.00014	0.00000
	0.000000	0.000000	-0.128597	0.00000	-0.00015	0.00000
	0.000000	0.000000	-0.128742	0.00000	-0.00014	0.00000
	0.000000	0.000000	-0.128695	0.00000	-0.00014	0.00000
48	0.000000	0.000000	-0.125498	0.00002	0.00011	0.00000
	0.000000	0.000000	-0.125654	0.00002	0.00010	0.00000
	0.000000	0.000000	-0.125165	0.00003	0.00011	0.00000
	0.000000	0.000000	-0.125321	0.00002	0.00011	0.00000
	0.000000	0.000000	-0.125243	0.00002	0.00011	0.00000
	0.000000	0.000000	-0.125399	0.00002	0.00011	0.00000
	0.000000	0.000000	-0.124910	0.00003	0.00011	0.00000
	0.000000	0.000000	-0.125067	0.00003	0.00011	0.00000
	0.000000	0.000000	-0.125190	0.00003	0.00011	0.00000
	0.000000	0.000000	-0.125346	0.00002	0.00011	0.00000
	0.000000	0.000000	-0.124858	0.00003	0.00011	0.00000
	0.000000	0.000000	-0.125014	0.00003	0.00011	0.00000
	0.000000	0.000000	-0.124935	0.00003	0.00011	0.00000
	0.000000	0.000000	-0.125092	0.00003	0.00011	0.00000
	0.000000	0.000000	-0.124603	0.00003	0.00012	0.00000
	0.000000	0.000000	-0.124759	0.00003	0.00011	0.00000
49	0.000000	0.000000	-0.124870	0.00003	-0.00011	0.00000
	0.000000	0.000000	-0.124707	0.00003	-0.00012	0.00000
	0.000000	0.000000	-0.125215	0.00003	-0.00011	0.00000
	0.000000	0.000000	-0.125053	0.00003	-0.00011	0.00000
	0.000000	0.000000	-0.125134	0.00003	-0.00011	0.00000
	0.000000	0.000000	-0.124972	0.00003	-0.00011	0.00000
	0.000000	0.000000	-0.125479	0.00002	-0.00011	0.00000

	0.000000	0.000000	-0.125317	0.00003	-0.00011	0.00000
	0.000000	0.000000	-0.125194	0.00003	-0.00011	0.00000
	0.000000	0.000000	-0.125031	0.00003	-0.00011	0.00000
	0.000000	0.000000	-0.125539	0.00002	-0.00011	0.00000
	0.000000	0.000000	-0.125377	0.00003	-0.00011	0.00000
	0.000000	0.000000	-0.125458	0.00002	-0.00011	0.00000
	0.000000	0.000000	-0.125296	0.00003	-0.00011	0.00000
	0.000000	0.000000	-0.125803	0.00002	-0.00010	0.00000
	0.000000	0.000000	-0.125641	0.00002	-0.00011	0.00000
50	0.000000	0.000000	-0.129491	0.00000	0.00014	0.00000
	0.000000	0.000000	-0.129494	0.00000	0.00014	0.00000
	0.000000	0.000000	-0.129485	0.00000	0.00014	0.00000
	0.000000	0.000000	-0.129488	0.00000	0.00014	0.00000
	0.000000	0.000000	-0.129487	0.00000	0.00014	0.00000
	0.000000	0.000000	-0.129490	0.00000	0.00014	0.00000
	0.000000	0.000000	-0.129482	0.00000	0.00015	0.00000
	0.000000	0.000000	-0.129485	0.00000	0.00014	0.00000
	0.000000	0.000000	-0.129488	0.00000	0.00014	0.00000
	0.000000	0.000000	-0.129491	0.00000	0.00014	0.00000
	0.000000	0.000000	-0.129482	0.00000	0.00015	0.00000
	0.000000	0.000000	-0.129485	0.00000	0.00014	0.00000
	0.000000	0.000000	-0.129484	0.00000	0.00014	0.00000
	0.000000	0.000000	-0.129487	0.00000	0.00014	0.00000
	0.000000	0.000000	-0.129479	0.00000	0.00015	0.00000
	0.000000	0.000000	-0.129481	0.00000	0.00015	0.00000
51	0.000000	0.000000	-0.139814	0.00009	0.00001	0.00000
	0.000000	0.000000	-0.139804	0.00009	0.00001	0.00000
	0.000000	0.000000	-0.139833	0.00009	0.00001	0.00000
	0.000000	0.000000	-0.139824	0.00009	0.00001	0.00000
	0.000000	0.000000	-0.139830	0.00009	0.00001	0.00000
	0.000000	0.000000	-0.139820	0.00009	0.00001	0.00000
	0.000000	0.000000	-0.139849	0.00009	0.00001	0.00000
	0.000000	0.000000	-0.139840	0.00009	0.00001	0.00000
	0.000000	0.000000	-0.139842	0.00009	0.00001	0.00000
	0.000000	0.000000	-0.139832	0.00009	0.00001	0.00000
	0.000000	0.000000	-0.139861	0.00009	0.00001	0.00000
	0.000000	0.000000	-0.139852	0.00009	0.00001	0.00000
	0.000000	0.000000	-0.139858	0.00009	0.00001	0.00000
	0.000000	0.000000	-0.139848	0.00009	0.00001	0.00000
	0.000000	0.000000	-0.139877	0.00009	0.00001	0.00000
	0.000000	0.000000	-0.139868	0.00009	0.00001	0.00000
52	0.000000	0.000000	-0.119543	-0.00006	-0.00006	0.00000
	0.000000	0.000000	-0.119692	-0.00006	-0.00006	0.00000
	0.000000	0.000000	-0.119220	-0.00006	-0.00006	0.00000
	0.000000	0.000000	-0.119369	-0.00006	-0.00006	0.00000
	0.000000	0.000000	-0.119301	-0.00006	-0.00006	0.00000
	0.000000	0.000000	-0.119450	-0.00006	-0.00006	0.00000
	0.000000	0.000000	-0.118977	-0.00006	-0.00006	0.00000
	0.000000	0.000000	-0.119126	-0.00006	-0.00006	0.00000
	0.000000					

60

64

	0.000000	0.000000	-0.151477	-0.00005	-0.00007	0.00000
	0.000000	0.000000	-0.151354	-0.00005	-0.00006	0.00000
	0.000000	0.000000	-0.151743	-0.00005	-0.00007	0.00000
	0.000000	0.000000	-0.151620	-0.00005	-0.00007	0.00000
	0.000000	0.000000	-0.151677	-0.00005	-0.00007	0.00000
	0.000000	0.000000	-0.151554	-0.00005	-0.00007	0.00000
	0.000000	0.000000	-0.151944	-0.00005	-0.00008	0.00000
	0.000000	0.000000	-0.151821	-0.00005	-0.00008	0.00000
66	0.000000	0.000000	-0.132928	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132916	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132951	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132940	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132947	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132935	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132971	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132959	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132959	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132947	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132982	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132971	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132978	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132966	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.133002	-0.00002	0.00004	0.00000
	0.000000	0.000000	-0.132990	-0.00002	0.00004	0.00000
67	0.000000	0.000000	-0.143921	-0.00004	-0.00007	0.00000
	0.000000	0.000000	-0.144180	-0.00004	-0.00008	0.00000
	0.000000	0.000000	-0.143374	-0.00004	-0.00007	0.00000
	0.000000	0.000000	-0.143633	-0.00004	-0.00007	0.00000
	0.000000	0.000000	-0.143503	-0.00004	-0.00007	0.00000
	0.000000	0.000000	-0.143762	-0.00004	-0.00007	0.00000
	0.000000	0.000000	-0.142956	-0.00004	-0.00007	0.00000
	0.000000	0.000000	-0.143215	-0.00004	-0.00007	0.00000
	0.000000	0.000000	-0.143372	-0.00004	-0.00007	0.00000
	0.000000	0.000000	-0.143631	-0.00004	-0.00007	0.00000
	0.000000	0.000000	-0.142825	-0.00004	-0.00007	0.00000
	0.000000	0.000000	-0.143084	-0.00004	-0.00007	0.00000
	0.000000	0.000000	-0.142954	-0.00004	-0.00007	0.00000
	0.000000	0.000000	-0.143213	-0.00004	-0.00007	0.00000
	0.000000	0.000000	-0.142407	-0.00004	-0.00006	0.00000
	0.000000	0.000000	-0.142667	-0.00004	-0.00006	0.00000
68	0.000000	0.000000	-0.132491	-0.00002	-0.00002	0.00000
	0.000000	0.000000	-0.132502	-0.00002	-0.00002	0.00000
	0.000000	0.000000	-0.132471	-0.00002	-0.00002	0.00000
	0.000000	0.000000	-0.132481	-0.00002	-0.00002	0.00000
	0.000000	0.000000	-0.132476	-0.00002	-0.00002	0.00000
	0.000000	0.000000	-0.132486	-0.00002	-0.00002	0.00000
	0.000000	0.000000	-0.132455	-0.00003	-0.00002	0.00000
	0.000000	0.000000	-0.132466	-0.00002	-0.00002	0.00000
	0.000000	0.000000	-0.132453	-0.00002	-0.00002	0.00000
	0.000000					

71	0.000000	0.000000	-0.143432	-0.00003	0.00008	0.00000
	0.000000	0.000000	-0.143371	-0.00003	0.00007	0.00000
	0.000000	0.000000	-0.137524	-0.00002	0.00013	0.00000
	0.000000	0.000000	-0.137403	-0.00002	0.00012	0.00000
	0.000000	0.000000	-0.137782	-0.00002	0.00014	0.00000
	0.000000	0.000000	-0.137660	-0.00002	0.00013	0.00000
	0.000000	0.000000	-0.137722	-0.00002	0.00014	0.00000
	0.000000	0.000000	-0.137600	-0.00002	0.00013	0.00000
	0.000000	0.000000	-0.137980	-0.00002	0.00015	0.00000
	0.000000	0.000000	-0.137858	-0.00002	0.00014	0.00000
	0.000000	0.000000	-0.137761	-0.00002	0.00014	0.00000
	0.000000	0.000000	-0.137639	-0.00002	0.00013	0.00000
	0.000000	0.000000	-0.138018	-0.00002	0.00015	0.00000
	0.000000	0.000000	-0.137897	-0.00002	0.00014	0.00000
	0.000000	0.000000	-0.137958	-0.00002	0.00015	0.00000
	0.000000	0.000000	-0.137837	-0.00002	0.00014	0.00000
72	0.000000	0.000000	-0.138216	-0.00002	0.00016	0.00000
	0.000000	0.000000	-0.138095	-0.00002	0.00015	0.00000
	0.000000	0.000000	-0.149646	0.00002	0.00012	0.00000
	0.000000	0.000000	-0.149375	0.00002	0.00012	0.00000
	0.000000	0.000000	-0.150216	0.00002	0.00013	0.00000
	0.000000	0.000000	-0.149946	0.00002	0.00012	0.00000
	0.000000	0.000000	-0.150085	0.00002	0.00012	0.00000
	0.000000	0.000000	-0.149815	0.00002	0.00012	0.00000
	0.000000	0.000000	-0.150656	0.00002	0.00013	0.00000
	0.000000	0.000000	-0.150386	0.00002	0.00013	0.00000
	0.000000	0.000000	-0.150180	0.00002	0.00013	0.00000
	0.000000	0.000000	-0.149910	0.00002	0.00012	0.00000
	0.000000	0.000000	-0.150751	0.00002	0.00013	0.00000
	0.000000	0.000000	-0.150480	0.00002	0.00013	0.00000
	0.000000	0.000000	-0.150620	0.00002	0.00013	0.00000
	0.000000	0.000000	-0.150349	0.00002	0.00013	0.00000
73	0.000000	0.000000	-0.151190	0.00002	0.00013	0.00000
	0.000000	0.000000	-0.150920	0.00002	0.00013	0.00000
	0.000000	0.000000	-0.164443	0.00004	0.00025	0.00000
	0.000000	0.000000	-0.164271	0.00004	0.00024	0.00000
	0.000000	0.000000	-0.164810	0.00004	0.00025	0.00000
	0.000000	0.000000	-0.164637	0.00004	0.00025	0.00000
	0.000000	0.000000	-0.164724	0.00004	0.00025	0.00000
	0.000000	0.000000	-0.164552	0.00004	0.00025	0.00000
	0.000000	0.000000	-0.165091	0.00004	0.00025	0.00000
	0.000000	0.000000	-0.164919	0.00004	0.00025	0.00000
	0.000000	0.000000	-0.164787	0.00004	0.00025	0.00000
	0.000000	0.000000	-0.164614	0.00004	0.00025	0.00000
	0.000000	0.000000	-0.165153	0.00004	0.00025	0.00000
	0.000000	0.000000	-0.164981	0.00004	0.00025	0.00000
	0.000000	0.000000	-0.165068	0.00004	0.00025	0.00000
	0.000000	0.000000	-0.164896	0.00004	0.00025	0.00000
74	0.000000	0.000000	-0.165435	0.00004	0.00026	0.00000
	0.000000	0.000000	-0.165262	0.00004	0.00026	0.00000
	0.000000	0.000000	-0.171853	-0.00001	0.00026	0.00000
	0.000000	0.00				

	0.000000	0.000000	-0.127829	-0.00008	-0.00008	0.00000
	0.000000	0.000000	-0.127785	-0.00008	-0.00008	0.00000
	0.000000	0.000000	-0.127925	-0.00008	-0.00008	0.00000
	0.000000	0.000000	-0.127469	-0.00008	-0.00008	0.00000
	0.000000	0.000000	-0.127608	-0.00008	-0.00008	0.00000
	0.000000	0.000000	-0.127762	-0.00008	-0.00008	0.00000
	0.000000	0.000000	-0.127902	-0.00008	-0.00008	0.00000
	0.000000	0.000000	-0.127446	-0.00008	-0.00008	0.00000
	0.000000	0.000000	-0.127586	-0.00008	-0.00008	0.00000
	0.000000	0.000000	-0.127541	-0.00008	-0.00008	0.00000
	0.000000	0.000000	-0.127681	-0.00008	-0.00008	0.00000
	0.000000	0.000000	-0.127225	-0.00008	-0.00008	0.00000
	0.000000	0.000000	-0.127365	-0.00008	-0.00008	0.00000
77	0.000000	0.000000	-0.177280	-0.00011	-0.00018	0.00000
	0.000000	0.000000	-0.177242	-0.00011	-0.00018	0.00000
	0.000000	0.000000	-0.177374	-0.00011	-0.00018	0.00000
	0.000000	0.000000	-0.177336	-0.00011	-0.00018	0.00000
	0.000000	0.000000	-0.177336	-0.00011	-0.00018	0.00000
	0.000000	0.000000	-0.177298	-0.00011	-0.00018	0.00000
	0.000000	0.000000	-0.177430	-0.00011	-0.00018	0.00000
	0.000000	0.000000	-0.177392	-0.00011	-0.00018	0.00000
	0.000000	0.000000	-0.177326	-0.00011	-0.00018	0.00000
	0.000000	0.000000	-0.177288	-0.00011	-0.00018	0.00000
	0.000000	0.000000	-0.177420	-0.00011	-0.00018	0.00000
	0.000000	0.000000	-0.177382	-0.00011	-0.00018	0.00000
	0.000000	0.000000	-0.177382	-0.00011	-0.00018	0.00000
	0.000000	0.000000	-0.177344	-0.00011	-0.00018	0.00000
	0.000000	0.000000	-0.177476	-0.00011	-0.00018	0.00000
	0.000000	0.000000	-0.177438	-0.00011	-0.00018	0.00000
78	0.000000	0.000000	-0.149549	-0.00007	-0.00007	0.00000
	0.000000	0.000000	-0.149681	-0.00007	-0.00007	0.00000
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	0.000000	0.000000	-0.149331	-0.00007	-0.00008	0.00000
	0.000000	0.000000	-0.149464	-0.00007	-0.00007	0.00000
	0.000000	0.000000	-0.149048	-0.00007	-0.00008	0.00000
	0.000000	0.000000	-0.149180	-0.00007	-0.00008	0.00000
	0.000000	0.000000	-0.149277	-0.00007	-0.00008	0.00000
	0.000000	0.000000	-0.149409	-0.00007	-0.00007	0.00000
	0.000000	0.000000	-0.148993	-0.00007	-0.00008	0.00000
	0.000000	0.000000	-0.149125	-0.00007	-0.00008	0.00000
	0.000000	0.000000	-0.149059	-0.00007	-0.00008	0.00000
	0.000000	0.000000	-0.149192	-0.00007	-0.00008	0.00000
	0.000000	0.000000	-0.148775	-0.00007	-0.00009	0.00000
	0.000000	0.000000	-0.148908	-0.00007	-0.00009	0.00000
79	0.000000	0.000000	-0.138277	-0.00005	-0.00018	0.00000
	0.000000	0.000000	-0.137896	-0.00005	-0.00018	0.00000
	0.000000	0.000000	-0.139106	-0.00005	-0.00019	0.00000
	0.000000	0.000000	-0.138725	-0.00005	-0.00018	0.00000
	0.000000					

	0.000000	0.000000	-0.173666	-0.00002	-0.00039	0.00000
	0.000000	0.000000	-0.174088	-0.00002	-0.00042	0.00000
	0.000000	0.000000	-0.173955	-0.00002	-0.00041	0.00000
	0.000000	0.000000	-0.174016	-0.00002	-0.00041	0.00000
	0.000000	0.000000	-0.173883	-0.00002	-0.00041	0.00000
	0.000000	0.000000	-0.174305	-0.00002	-0.00043	0.00000
	0.000000	0.000000	-0.174171	-0.00002	-0.00042	0.00000
82	0.000000	0.000000	-0.176325	0.00000	-0.00041	0.00000
	0.000000	0.000000	-0.176278	0.00000	-0.00040	0.00000
	0.000000	0.000000	-0.176427	0.00000	-0.00042	0.00000
	0.000000	0.000000	-0.176380	0.00000	-0.00041	0.00000
	0.000000	0.000000	-0.176401	0.00000	-0.00041	0.00000
	0.000000	0.000000	-0.176354	0.00000	-0.00041	0.00000
	0.000000	0.000000	-0.176503	0.00000	-0.00043	0.00000
	0.000000	0.000000	-0.176456	0.00000	-0.00042	0.00000
	0.000000	0.000000	-0.176415	0.00000	-0.00042	0.00000
	0.000000	0.000000	-0.176368	0.00000	-0.00041	0.00000
	0.000000	0.000000	-0.176517	0.00000	-0.00043	0.00000
	0.000000	0.000000	-0.176470	0.00000	-0.00042	0.00000
	0.000000	0.000000	-0.176491	0.00000	-0.00042	0.00000
	0.000000	0.000000	-0.176444	0.00000	-0.00042	0.00000
	0.000000	0.000000	-0.176593	0.00000	-0.00043	0.00000
	0.000000	0.000000	-0.176546	0.00000	-0.00043	0.00000
83	0.000000	0.000000	-0.173472	0.00002	-0.00039	0.00000
	0.000000	0.000000	-0.173507	0.00002	-0.00038	0.00000
	0.000000	0.000000	-0.173397	0.00002	-0.00039	0.00000
	0.000000	0.000000	-0.173433	0.00002	-0.00039	0.00000
	0.000000	0.000000	-0.173414	0.00002	-0.00039	0.00000
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	0.000000	0.000000	-0.173402	0.00002	-0.00039	0.00000
	0.000000	0.000000	-0.173437	0.00002	-0.00039	0.00000
	0.000000	0.000000	-0.173327	0.00002	-0.00039	0.00000
	0.000000	0.000000	-0.173363	0.00002	-0.00039	0.00000
	0.000000	0.000000	-0.173344	0.00002	-0.00039	0.00000
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84	0.000000	0.000000	-0.163814	0.00004	-0.00031	0.00000
	0.000000	0.000000	-0.163984	0.00004	-0.00031	0.00000
	0.000000	0.000000	-0.163454	0.00004	-0.00030	0.00000
	0.000000	0.000000	-0.163623	0.00004	-0.00031	0.00000
	0.000000	0.000000	-0.163537	0.00004	-0.00031	0.00000
	0.000000	0.000000	-0.163707	0.00004	-0.00031	0.00000
	0.000000	0.000000	-0.163176	0.00004	-0.00030	0.00000
	0.000000	0.000000	-0.163346	0.00004	-0.00030	0.00000
	0.000000	0.000000	-0.163476	0.00004	-0.00030	0.00000
	0.000000	0.000000	-0.163646	0.00004	-0.00031	0.00000
	0.000000					

	0.000000	0.000000	-0.137078	-0.00002	-0.00012	0.00000
	0.000000	0.000000	-0.137228	-0.00002	-0.00013	0.00000
87	-0.019457	-0.009498	-0.148762	0.00017	0.00042	0.00001
	-0.029161	-0.014297	-0.149031	0.00019	0.00039	0.00002
	0.001275	0.000817	-0.148195	0.00014	0.00047	0.00000
	-0.008430	-0.003981	-0.148464	0.00015	0.00045	0.00001
	-0.003596	-0.001602	-0.148328	0.00014	0.00046	0.00000
	-0.013300	-0.006400	-0.148597	0.00016	0.00043	0.00001
	0.017136	0.008714	-0.147761	0.00011	0.00051	-0.00001
	0.007431	0.003915	-0.148030	0.00013	0.00049	-0.00001
	-0.000285	-0.000367	-0.148194	0.00014	0.00047	0.00000
	-0.009989	-0.005166	-0.148462	0.00016	0.00044	0.00001
	0.020447	0.009948	-0.147626	0.00011	0.00052	-0.00001
	0.010743	0.005149	-0.147895	0.00012	0.00050	-0.00001
	0.015577	0.007529	-0.147760	0.00011	0.00051	-0.00001
	0.005872	0.002730	-0.148029	0.00013	0.00048	0.00000
	0.036308	0.017844	-0.147193	0.00008	0.00057	-0.00002
	0.026604	0.013046	-0.147461	0.00010	0.00054	-0.00002
88	-0.019460	-0.004702	-0.139797	0.00004	-0.00009	0.00001
	-0.029164	-0.007102	-0.139803	0.00005	-0.00011	0.00002
	0.001272	0.000460	-0.139785	0.00002	-0.00005	0.00000
	-0.008432	-0.001940	-0.139791	0.00003	-0.00007	0.00001
	-0.003598	-0.000746	-0.139788	0.00002	-0.00006	0.00000
	-0.013302	-0.003146	-0.139795	0.00003	-0.00008	0.00001
	0.017134	0.004416	-0.139776	0.00000	-0.00002	-0.00001
	0.007430	0.002016	-0.139782	0.00001	-0.00004	-0.00001
	-0.000287	-0.000229	-0.139766	0.00002	-0.00005	0.00000
	-0.009992	-0.002629	-0.139772	0.00003	-0.00007	0.00001
	0.020445	0.004933	-0.139754	0.00000	-0.00001	-0.00001
	0.010741	0.002533	-0.139760	0.00001	-0.00003	-0.00001
	0.015575	0.003727	-0.139757	0.00000	-0.00002	-0.00001
	0.005870	0.001327	-0.139764	0.00001	-0.00004	0.00000
	0.036307	0.008889	-0.139745	-0.00002	0.00002	-0.00002
	0.026602	0.006489	-0.139751	-0.00001	0.00000	-0.00002
89	-0.019476	0.000129	-0.133524	0.00003	-0.00016	0.00001
	-0.029179	0.000128	-0.133598	0.00003	-0.00017	0.00002
	0.001255	0.000145	-0.133368	0.00003	-0.00012	0.00000
	-0.008448	0.000144	-0.133441	0.00003	-0.00014	0.00001
	-0.003616	0.000143	-0.133405	0.00003	-0.00013	0.00000
	-0.013319	0.000142	-0.133479	0.00003	-0.00015	0.00001
	0.017116	0.000160	-0.133249	0.00003	-0.00009	-0.00001
	0.007412	0.000159	-0.133322	0.00003	-0.00011	-0.00001
	-0.000274	-0.000148	-0.133365	0.00003	-0.00012	0.00000
	-0.009978	-0.000149	-0.133438	0.00003	-0.00014	0.00001
	0.020457	-0.000132	-0.133209	0.00003	-0.00009	-0.00001
	0.010753	-0.000133	-0.133282	0.00003	-0.00010	-0.00001
	0.015586	-0.000134	-0.133246	0.00003	-0.00009	-0.00001
	0.005882	-0.000135	-0.133319	0.00003	-0.00011	0.00000
	0.036317	-0.000117	-0.133090	0.00003	-0.00006	-0.00003
	0.026613	-0.000118	-0.133163	0.00003	-0.00007	-0.00002
90	-0.019488	0.004197	-0.133480	0.00002	0.00009	0.00001
	-0.029191	0.006231	-0.133529	0.00001	0.00007	0.00002
	0.001243	-0.000161	-0.133373	0.00003	0.00012	0.00000
	-0.008460	0.001874	-0.133423	0.00003	0.00011	0.00001
	-0.003630	0.000871	-0.133399	0.00003	0.00012	0.00000
	-0.013333	0.002905	-0.133448	0.00002	0.00010	0.00001
	0.017101	-0.003487	-0.133292	0.00005	0.00015	-0.00001
	0.007399	-0.001452	-0.133342	0.00004	0.00014	-0.00001
	-0.000264	-0.000040	-0.133367	0.00003	0.00012	0.00000
	-0.009967	0.001995	-0.133416	0.00003	0.00010	0.00001
	0.020467	-0.004398	-0.133261	0.00005	0.00016	-0.00001
	0.010764	-0.002363	-0.133310	0.00004	0.00014	-0.00001
	0.015594	-0.003366	-0.133286	0.00005	0.00015	-0.00001
	0.005891	-0.001331	-0.133336	0.00004	0.00013	0.00000
	0.036326	-0.007723	-0.133180	0.00006	0.00019	-0.00003
	0.026623	-0.005689	-0.133229	0.00005	0.00017	-0.00002
91	-0.019505	0.009076	-0.139956	-0.00002	0.00001	0.00001
	-0.029206	0.013504	-0.140051	-0.00004	-0.00001	0.00002
	0.001227	-0.000434	-0.139753	0.00002	0.00005	0.00000
	-0.008474	0.003994	-0.139847	0.00000	0.00003	0.00001
	-0.003648	0.001817	-0.139801	0.00001	0.00004	0.00000
	-0.013349	0.006246	-0.139896	-0.00001	0.00002	0.00001
	0.017084	-0.007693	-0.139598	0.00005	0.00008	-0.00001
	0.007383	-0.003264	-0.139692	0.00003	0.00006	0.00000
	-0.000253	0.000012	-0.139755	0.00002	0.00005	0.00000
	-0.009955	0.004441	-0.139850	0.00000	0.00003	0.00001
	0.020479	-0.009498	-0.139552	0.00006	0.00009	-0.00001
	0.010777	-0.005069	-0.139646	0.00004	0.00007	-0.00001
	0.015604	-0.007246	-0.139600	0.00005	0.00008	-0.00001
	0.005902	-0.002818	-0.139695	0.00003	0.00006	0.00000
	0.036336	-0.016756	-0.139397	0.00009	0.00012	-0.00002
	0.026634	-0.012328	-0.139491	0.00007	0.00010	-0.00002
92	-0.019507	0.013925	-0.147932	0.00009	-0.00052	0.00001
	-0.029208	0.020749	-0.147867	0.00007	-0.00055	0.00002
	0.001225	-0.000736	-0.148065	0.00014	-0.00047	0.00000

	-0.008477	0.006088	-0.147999	0.00012	-0.00049	0.00001
	-0.003650	0.002736	-0.148036	0.00013	-0.00048	0.00000
	-0.013352	0.009560	-0.147970	0.00011	-0.00050	0.00001
	0.017082	-0.011925	-0.148168	0.00018	-0.00042	-0.00001
	0.007380	-0.005101	-0.148102	0.00016	-0.00045	0.00000
	-0.000255	0.000073	-0.148035	0.00014	-0.00047	0.00000
	-0.009957	0.006897	-0.147969	0.00012	-0.00050	0.00001
	0.020477	-0.014588	-0.148167	0.00019	-0.00041	-0.00001
	0.010775	-0.007764	-0.148101	0.00016	-0.00044	-0.00001
	0.015602	-0.011117	-0.148138	0.00018	-0.00043	-0.00001
	0.005900	-0.004293	-0.148072	0.00015	-0.00045	0.00000
	0.036333	-0.025778	-0.148270	0.00022	-0.00037	-0.00002
	0.026631	-0.018954	-0.148205	0.00020	-0.00040	-0.00002
93	-0.014531	0.013997	-0.146039	-0.00003	-0.00093	0.00001
	-0.021761	0.020857	-0.145901	-0.00005	-0.00094	0.00002
	0.000898	-0.000742	-0.146333	0.00001	-0.00091	0.00000
	-0.006332	0.006119	-0.146195	-0.00001	-0.00092	0.00001
	-0.002726	0.002747	-0.146264	0.00000	-0.00092	0.00000
	-0.009956	0.009608	-0.146126	-0.00002	-0.00093	0.00001
	0.012703	-0.011991	-0.146558	0.00003	-0.00089	-0.00001
	0.005473	-0.005131	-0.146420	0.00002	-0.00090	-0.00001
	-0.000172	0.000079	-0.146309	0.00000	-0.00091	0.00000
	-0.007402	0.006939	-0.146171	-0.00001	-0.00092	0.00001
	0.015257	-0.014660	-0.146602	0.00004	-0.00089	-0.00001
	0.008027	-0.007799	-0.146464	0.00002	-0.00090	-0.00001
	0.011633	-0.011171	-0.146534	0.00003	-0.00090	-0.00001
	0.004404	-0.004310	-0.146396	0.00001	-0.00091	0.00000
	0.027062	-0.025909	-0.146827	0.00007	-0.00087	-0.00002
	0.019832	-0.019049	-0.146689	0.00005	-0.00088	-0.00002
94	-0.009506	0.013999	-0.139481	-0.00016	-0.00066	0.00001
	-0.014222	0.020860	-0.139482	-0.00018	-0.00067	0.00002
	0.000546	-0.000739	-0.139486	-0.00011	-0.00065	0.00000
	-0.004170	0.006122	-0.139487	-0.00013	-0.00066	0.00001
	-0.001809	0.002750	-0.139481	-0.00012	-0.00066	0.00000
	-0.006525	0.009611	-0.139482	-0.00014	-0.00066	0.00001
	0.008243	-0.011988	-0.139486	-0.00007	-0.00065	-0.00001
	0.003527	-0.005127	-0.139487	-0.00009	-0.00065	-0.00001
	-0.000084	0.000081	-0.139486	-0.00011	-0.00066	0.00000
	-0.004800	0.006942	-0.139487	-0.00013	-0.00066	0.00001
	0.009969	-0.014658	-0.139491	-0.00006	-0.00065	-0.00001
	0.005253	-0.007797	-0.139492	-0.00009	-0.00065	-0.00001
	0.007613	-0.011168	-0.139486	-0.00008	-0.00065	-0.00001
	0.002897	-0.004307	-0.139487	-0.00010	-0.00065	0.00000
	0.017666	-0.025907	-0.139491	-0.00003	-0.00064	-0.00003
	0.012950	-0.019046	-0.139492	-0.00005	-0.00064	-0.00002
95	-0.009481	0.004184	-0.133867	-0.00002	0.00048	0.00001
	-0.014201	0.006219	-0.133696	-0.00002	0.00048	0.00002
	0.000568	-0.000173	-0.134231	0.00000	0.00049	0.00000
	-0.004152	0.001862	-0.134060	-0.00001	0.00049	0.00001
	-0.001786	0.000858	-0.134146	-0.00001	0.00049	0.00000
	-0.006506	0.002893	-0.133975	-0.00001	0.00048	0.00001
	0.008263	-0.003499	-0.134510	0.00000	0.00049	-0.00001
	0.003543	-0.001464	-0.134339	0.00000	0.00049	-0.00001
	-0.000086	-0.000029	-0.134208	-0.00001	0.00049	0.00000
	-0.004806	0.002007	-0.134037	-0.00001	0.00049	0.00001
	0.009963	-0.004386	-0.134572	0.00001	0.00049	-0.00001
	0.005243	-0.002350	-0.134401	0.00000	0.00049	-0.00001
	0.007609	-0.003355	-0.134487	0.00000	0.00049	-0.00001
	0.002889	-0.001319	-0.134316	0.00000	0.00049	0.00000
	0.017658	-0.007712	-0.134851	0.00002	0.00050	-0.00003
	0.012938	-0.005676	-0.134680	0.00001	0.00050	-0.00002
96	-0.014504	0.004196	-0.135517	-0.00001	0.00051	0.00001
	-0.021736	0.006230	-0.135300	-0.00002	0.00051	0.00002
	0.000923	-0.000162	-0.135981	0.00000	0.00052	0.00000
	-0.006309	0.001872	-0.135763	0.00000	0.00052	0.00001
	-0.002698	0.000870	-0.135872	0.00000	0.00052	0.00000
	-0.009930	0.002904	-0.135655	-0.00001	0.00051	0.00001
	0.012729	-0.003488	-0.136336	0.00001	0.00053	-0.00001
	0.005497	-0.001454	-0.136118	0.00000	0.00052	-0.00001
	-0.000182	-0.000038	-0.135949	0.00000	0.00052	0.00000
	-0.007414	0.001996	-0.135732	0.00000	0.00052	0.00001
	0.015244	-0.004396	-0.136413	0.00001	0.00053	-0.00001
	0.008013	-0.002362	-0.136196	0.00001	0.00052	-0.00001
	0.011623	-0.003364	-0.136304	0.00001	0.00053	-0.00001
	0.004391	-0.001330	-0.136087	0.00000	0.00052	0.00000
	0.027050	-0.007722	-0.136768	0.00002	0.00053	-0.00003
	0.019818	-0.005687	-0.136551	0.00002	0.00053	-0.00002
97	-0.014504	0.000125	-0.136383	0.00000	-0.00053	0.00001
	-0.021736	0.000125	-0.136597	0.00000	-0.00053	0.00002
	0.000923	0.000142	-0.135928	0.00000	-0.00052	0.00000
	-0.006308	0.000141	-0.136142	0.00000	-0.00052	0.00001
	-0.002698	0.000140	-0.136035	0.00000	-0.00052	0.00000
	-0.009929	0.000139	-0.136248	0.00000	-0.00053	0.00001
	0.012730	0.000156	-0.135580	0.00000	-0.00051	-0.00001
	0.005498	0.000156	-0.135793	0.00000	-0.00052	-0.00001
	-0.000183	-0.000145	-0.135963	0.00000	-0.00052	0.00000

	-0.007415	-0.000145	-0.136176	0.00000	-0.00052	0.00001
	0.015244	-0.000128	-0.135507	0.00000	-0.00051	-0.00001
	0.008013	-0.000128	-0.135721	0.00000	-0.00052	-0.00001
	0.011623	-0.000130	-0.135614	0.00000	-0.00051	-0.00001
	0.004392	-0.000131	-0.135828	0.00000	-0.00052	0.00000
	0.027051	-0.000114	-0.135159	0.00000	-0.00051	-0.00003
	0.019819	-0.000114	-0.135372	0.00000	-0.00051	-0.00002
98	-0.009476	0.000096	-0.134523	-0.00001	-0.00049	0.00001
	-0.014196	0.000095	-0.134689	-0.00001	-0.00050	0.00002
	0.000572	0.000109	-0.134171	-0.00001	-0.00049	0.00000
	-0.004148	0.000108	-0.134336	-0.00001	-0.00049	0.00001
	-0.001781	0.000107	-0.134253	-0.00001	-0.00049	0.00000
	-0.006501	0.000106	-0.134419	-0.00001	-0.00049	0.00001
	0.008268	0.000120	-0.133901	-0.00001	-0.00048	-0.00001
	0.003548	0.000119	-0.134066	-0.00001	-0.00049	-0.00001
	-0.000090	-0.000112	-0.134197	0.00000	-0.00049	0.00000
	-0.004810	-0.000112	-0.134363	0.00000	-0.00049	0.00001
	0.009958	-0.000099	-0.133845	-0.00001	-0.00048	-0.00001
	0.005238	-0.000099	-0.134010	0.00000	-0.00048	-0.00001
	0.007606	-0.000101	-0.133927	-0.00001	-0.00048	-0.00001
	0.002885	-0.000101	-0.134093	0.00000	-0.00049	0.00000
	0.017654	-0.000088	-0.133574	-0.00001	-0.00048	-0.00003
	0.012934	-0.000088	-0.133740	-0.00001	-0.00048	-0.00002
99	-0.009462	-0.009572	-0.138494	-0.00008	0.00065	0.00001
	-0.014182	-0.014408	-0.138445	-0.00007	0.00064	0.00002
	0.000588	0.000820	-0.138596	-0.00011	0.00066	0.00000
	-0.004132	-0.004016	-0.138547	-0.00010	0.00065	0.00001
	-0.001765	-0.001619	-0.138572	-0.00011	0.00065	0.00000
	-0.006485	-0.006454	-0.138523	-0.00009	0.00065	0.00001
	0.008286	0.008774	-0.138674	-0.00014	0.00066	-0.00001
	0.003566	0.003938	-0.138625	-0.00012	0.00066	-0.00001
	-0.000097	-0.000355	-0.138601	-0.00011	0.00065	0.00000
	-0.004817	-0.005190	-0.138552	-0.00009	0.00065	0.00001
	0.009954	0.010038	-0.138703	-0.00014	0.00066	-0.00001
	0.005234	0.005202	-0.138654	-0.00013	0.00066	-0.00001
	0.007601	0.007599	-0.138679	-0.00013	0.00066	-0.00001
	0.002881	0.002763	-0.138630	-0.00012	0.00066	0.00000
	0.017651	0.017991	-0.138781	-0.00017	0.00067	-0.00003
	0.012931	0.013156	-0.138732	-0.00015	0.00067	-0.00002
100	-0.014501	-0.009572	-0.146522	0.00003	0.00089	0.00001
	-0.021734	-0.014407	-0.146688	0.00004	0.00088	0.00002
	0.000925	0.000821	-0.146168	0.00000	0.00091	0.00000
	-0.006308	-0.004013	-0.146334	0.00001	0.00090	0.00001
	-0.002697	-0.001616	-0.146251	0.00001	0.00091	0.00000
	-0.009929	-0.006451	-0.146418	0.00002	0.00090	0.00001
	0.012729	0.008777	-0.145897	-0.00002	0.00093	-0.00001
	0.005497	0.003942	-0.146064	-0.00001	0.00092	-0.00001
	-0.000169	-0.000366	-0.146187	0.00000	0.00091	0.00000
	-0.007402	-0.005201	-0.146354	0.00002	0.00090	0.00001
	0.015257	0.010028	-0.145833	-0.00002	0.00093	-0.00001
	0.008024	0.005193	-0.146000	-0.00001	0.00092	-0.00001
	0.011635	0.007590	-0.145916	-0.00001	0.00093	-0.00001
	0.004403	0.002755	-0.146083	0.00000	0.00092	0.00000
	0.027061	0.017984	-0.145562	-0.00004	0.00095	-0.00002
	0.019829	0.013149	-0.145729	-0.00003	0.00094	-0.00002
101	-0.004753	0.000067	-0.152816	0.00001	-0.00085	0.00001
	-0.007117	0.000066	-0.152917	0.00001	-0.00085	0.00002
	0.000261	0.000077	-0.152603	0.00001	-0.00085	0.00000
	-0.002104	0.000076	-0.152703	0.00001	-0.00085	0.00001
	-0.000906	0.000074	-0.152652	0.00001	-0.00085	0.00000
	-0.003270	0.000074	-0.152752	0.00001	-0.00085	0.00001
	0.004108	0.000084	-0.152438	0.00001	-0.00085	-0.00001
	0.001743	0.000084	-0.152539	0.00001	-0.00085	-0.00001
	-0.000014	-0.000079	-0.152617	0.00001	-0.00085	0.00000
	-0.002379	-0.000079	-0.152717	0.00001	-0.00085	0.00001
	0.004999	-0.000069	-0.152404	0.00001	-0.00085	-0.00001
	0.002635	-0.000069	-0.152504	0.00001	-0.00085	-0.00001
	0.003832	-0.000071	-0.152452	0.00001	-0.00085	-0.00001
	0.001468	-0.000072	-0.152553	0.00001	-0.00085	0.00000
	0.008846	-0.000061	-0.152239	0.00001	-0.00084	-0.00003
	0.006481	-0.000062	-0.152340	0.00001	-0.00084	-0.00002
102	-0.004770	0.004186	-0.152280	0.00000	0.00084	0.00001
	-0.007132	0.006221	-0.152178	-0.00001	0.00084	0.00002
	0.000244	-0.000171	-0.152498	0.00001	0.00085	0.00000
	-0.002118	0.001864	-0.152395	0.00000	0.00085	0.00001
	-0.000921	0.000858	-0.152447	0.00000	0.00085	0.00000
	-0.003283	0.002893	-0.152345	0.00000	0.00085	0.00001
	0.004093	-0.003499	-0.152665	0.00002	0.00085	-0.00001
	0.001731	-0.001464	-0.152562	0.00001	0.00085	-0.00001
	-0.000014	-0.000028	-0.152486	0.00001	0.00085	0.00000
	-0.002376	0.002008	-0.152383	0.00000	0.00085	0.00001
	0.005000	-0.004384	-0.152703	0.00002	0.00085	-0.00001
	0.002638	-0.002349	-0.152601	0.00001	0.00085	-0.00001
	0.003835	-0.003355	-0.152653	0.00002	0.00085	-0.00001
	0.001473	-0.001320	-0.152550	0.00001	0.00085	0.00000
	0.008849	-0.007712	-0.152870	0.00003	0.00085	-0.00003

	0.006487	-0.005677	-0.152768	0.00002	0.00085	-0.00002
103	-0.000010	0.004201	-0.163412	0.00000	0.00085	0.00001
	-0.000012	0.006234	-0.163421	-0.00001	0.00085	0.00002
	-0.000044	-0.000161	-0.163391	0.00001	0.00085	0.00000
	-0.000046	0.001872	-0.163400	0.00000	0.00085	0.00001
	-0.000003	0.000876	-0.163399	0.00000	0.00085	0.00000
	-0.000005	0.002909	-0.163407	0.00000	0.00085	0.00001
	-0.000036	-0.003486	-0.163378	0.00001	0.00085	-0.00001
	-0.000038	-0.001453	-0.163386	0.00001	0.00085	-0.00001
	0.000030	-0.000040	-0.163395	0.00001	0.00085	0.00000
	0.000027	0.001993	-0.163404	0.00000	0.00085	0.00001
	-0.000004	-0.004402	-0.163374	0.00002	0.00085	-0.00001
	-0.000006	-0.002369	-0.163383	0.00001	0.00085	-0.00001
	0.000037	-0.003365	-0.163382	0.00001	0.00085	-0.00001
	0.000035	-0.001332	-0.163390	0.00001	0.00085	0.00000
	0.000004	-0.007727	-0.163361	0.00003	0.00085	-0.00003
	0.000001	-0.005694	-0.163369	0.00002	0.00085	-0.00002
104	0.000000	0.000000	-0.164850	0.00001	-0.00086	0.00001
	0.000000	0.000000	-0.164834	0.00001	-0.00086	0.00002
	0.000000	0.000000	-0.164886	0.00001	-0.00086	0.00000
	0.000000	0.000000	-0.164871	0.00001	-0.00086	0.00001
	0.000000	0.000000	-0.164874	0.00001	-0.00086	0.00000
	0.000000	0.000000	-0.164858	0.00001	-0.00086	0.00001
	0.000000	0.000000	-0.164910	0.00001	-0.00086	-0.00001
	0.000000	0.000000	-0.164895	0.00001	-0.00086	-0.00001
	0.000000	0.000000	-0.164876	0.00001	-0.00086	0.00000
	0.000000	0.000000	-0.164861	0.00001	-0.00086	0.00001
	0.000000	0.000000	-0.164912	0.00001	-0.00086	-0.00001
	0.000000	0.000000	-0.164897	0.00001	-0.00086	-0.00001
	0.000000	0.000000	-0.164900	0.00001	-0.00086	-0.00001
	0.000000	0.000000	-0.164885	0.00001	-0.00086	0.00000
	0.000000	0.000000	-0.164936	0.00001	-0.00086	-0.00003
	0.000000	0.000000	-0.164921	0.00001	-0.00086	-0.00002
105	0.004681	0.004234	-0.163815	-0.00005	0.00082	0.00001
	0.007025	0.006265	-0.163940	-0.00006	0.00082	0.00002
	-0.000428	-0.000123	-0.163542	-0.00004	0.00082	0.00000
	0.001916	0.001908	-0.163667	-0.00005	0.00082	0.00001
	0.000876	0.000905	-0.163611	-0.00005	0.00082	0.00000
	0.003220	0.002937	-0.163736	-0.00005	0.00082	0.00001
	-0.004233	-0.003452	-0.163338	-0.00003	0.00082	-0.00001
	-0.001889	-0.001420	-0.163463	-0.00004	0.00082	-0.00001
	0.000103	-0.000066	-0.163566	-0.00004	0.00082	0.00000
	0.002447	0.001965	-0.163692	-0.00005	0.00082	0.00001
	-0.005006	-0.004423	-0.163293	-0.00003	0.00082	-0.00001
	-0.002662	-0.002392	-0.163419	-0.00004	0.00082	-0.00001
	-0.003701	-0.003395	-0.163362	-0.00003	0.00082	-0.00001
	-0.001357	-0.001363	-0.163488	-0.00004	0.00082	0.00000
	-0.008810	-0.007752	-0.163089	-0.00002	0.00081	-0.00003
	-0.006466	-0.005720	-0.163215	-0.00003	0.00081	-0.00002
106	0.004696	0.000088	-0.171738	-0.00001	-0.00087	0.00001
	0.007040	0.000087	-0.171588	-0.00001	-0.00087	0.00002
	-0.000404	0.000116	-0.172066	-0.00001	-0.00087	0.00000
	0.001941	0.000115	-0.171915	-0.00001	-0.00087	0.00001
	0.000885	0.000084	-0.171981	-0.00001	-0.00087	0.00000
	0.003230	0.000083	-0.171831	-0.00001	-0.00087	0.00001
	-0.004214	0.000112	-0.172309	-0.00001	-0.00087	-0.00001
	-0.001870	0.000111	-0.172159	-0.00001	-0.00087	-0.00001
	0.000097	-0.000094	-0.172026	-0.00001	-0.00087	0.00000
	0.002441	-0.000095	-0.171876	-0.00001	-0.00087	0.00001
	-0.005003	-0.000066	-0.172353	-0.00001	-0.00088	-0.00001
	-0.002658	-0.000067	-0.172203	-0.00001	-0.00087	-0.00001
	-0.003714	-0.000098	-0.172269	-0.00001	-0.00087	-0.00001
	-0.001369	-0.000099	-0.172119	-0.00001	-0.00087	0.00000
	-0.008813	-0.000070	-0.172597	-0.00001	-0.00088	-0.00003
	-0.006469	-0.000071	-0.172447	-0.00001	-0.00088	-0.00002
107	0.009401	0.000151	-0.178746	0.00012	-0.00076	0.00001
	0.014094	0.000149	-0.178521	0.00012	-0.00076	0.00002
	-0.000779	0.000190	-0.179234	0.00012	-0.00077	0.00000
	0.003913	0.000188	-0.179009	0.00012	-0.00076	0.00001
	0.001771	0.000146	-0.179111	0.00012	-0.00076	0.00000
	0.006463	0.000144	-0.178886	0.00012	-0.00076	0.00001
	-0.008410	0.000186	-0.179599	0.00012	-0.00077	-0.00001
	-0.003717	0.000184	-0.179374	0.00012	-0.00077	-0.00001
	0.000184	-0.000159	-0.179181	0.00012	-0.00077	0.00000
	0.004876	-0.000161	-0.178957	0.00012	-0.00076	0.00001
	-0.009996	-0.000120	-0.179669	0.00012	-0.00077	-0.00001
	-0.005304	-0.000122	-0.179444	0.00012	-0.00077	-0.00001
	-0.007446	-0.000164	-0.179546	0.00012	-0.00077	-0.00001
	-0.002754	-0.000166	-0.179321	0.00012	-0.00077	0.00000
	-0.017627	-0.000125	-0.180034	0.00012	-0.00078	-0.00003
	-0.012935	-0.000127	-0.179809	0.00012	-0.00077	-0.00002
108	0.009398	0.004257	-0.151260	0.00052	0.00032	0.00001
	0.014090	0.006287	-0.151437	0.00051	0.00032	0.00002
	-0.000785	-0.000098	-0.150876	0.00053	0.00031	0.00000
	0.003907	0.001933	-0.151053	0.00053	0.00031	0.00001

	0.001769	0.000928	-0.150972	0.00053	0.00031	0.00000
	0.006461	0.002959	-0.151149	0.00052	0.00032	0.00001
	-0.008413	-0.003426	-0.150588	0.00054	0.00031	-0.00001
	-0.003721	-0.001396	-0.150765	0.00054	0.00031	-0.00001
	0.000184	-0.000090	-0.150911	0.00053	0.00031	0.00000
	0.004876	0.001940	-0.151088	0.00053	0.00031	0.00001
	-0.009999	-0.004445	-0.150527	0.00054	0.00031	-0.00001
	-0.005307	-0.002414	-0.150704	0.00054	0.00031	-0.00001
	-0.007445	-0.003419	-0.150623	0.00054	0.00031	-0.00001
	-0.002753	-0.001388	-0.150800	0.00054	0.00031	0.00000
	-0.017628	-0.007773	-0.150239	0.00055	0.00030	-0.00003
	-0.012936	-0.005743	-0.150416	0.00055	0.00030	-0.00002
109	0.009492	0.011663	-0.187244	0.00017	-0.00025	0.00001
	0.014232	0.017359	-0.187207	0.00015	-0.00025	0.00002
	-0.000794	-0.000585	-0.187336	0.00021	-0.00026	0.00000
	0.003946	0.005112	-0.187299	0.00019	-0.00025	0.00001
	0.001783	0.002329	-0.187299	0.00020	-0.00026	0.00000
	0.006523	0.008026	-0.187262	0.00018	-0.00025	0.00001
	-0.008503	-0.009919	-0.187391	0.00024	-0.00026	-0.00001
	-0.003763	-0.004222	-0.187353	0.00022	-0.00026	-0.00001
	0.000178	0.000016	-0.187288	0.00021	-0.00026	0.00000
	0.004919	0.005712	-0.187251	0.00019	-0.00025	0.00001
	-0.010108	-0.012232	-0.187380	0.00025	-0.00026	-0.00001
	-0.005367	-0.006536	-0.187343	0.00023	-0.00026	-0.00001
	-0.007531	-0.009318	-0.187343	0.00024	-0.00026	-0.00001
	-0.002790	-0.003621	-0.187306	0.00022	-0.00026	0.00000
	-0.017817	-0.021566	-0.187435	0.00028	-0.00026	-0.00003
	-0.013077	-0.015869	-0.187398	0.00026	-0.00026	-0.00002
110	0.014004	0.011674	-0.156850	-0.00007	-0.00048	0.00001
	0.020997	0.017370	-0.156986	-0.00009	-0.00046	0.00002
	-0.001142	-0.000571	-0.156560	-0.00005	-0.00053	0.00000
	0.005851	0.005125	-0.156695	-0.00006	-0.00051	0.00001
	0.002624	0.002339	-0.156628	-0.00005	-0.00052	0.00000
	0.009616	0.008035	-0.156763	-0.00007	-0.00050	0.00001
	-0.012522	-0.009906	-0.156338	-0.00002	-0.00057	-0.00001
	-0.005530	-0.004210	-0.156473	-0.00004	-0.00054	-0.00001
	0.000267	0.000013	-0.156573	-0.00005	-0.00053	0.00000
	0.007259	0.005709	-0.156708	-0.00006	-0.00050	0.00001
	-0.014879	-0.012232	-0.156283	-0.00002	-0.00057	-0.00001
	-0.007887	-0.006536	-0.156418	-0.00003	-0.00055	-0.00001
	-0.011114	-0.009322	-0.156351	-0.00002	-0.00056	-0.00001
	-0.004121	-0.003626	-0.156486	-0.00004	-0.00054	0.00000
	-0.026260	-0.021567	-0.156060	0.00000	-0.00061	-0.00002
	-0.019267	-0.015871	-0.156196	-0.00001	-0.00059	-0.00002
111	0.018586	0.011680	-0.132878	-0.00003	0.00004	0.00001
	0.027860	0.017376	-0.133155	-0.00004	0.00005	0.00002
	-0.001481	-0.000562	-0.132279	0.00001	0.00001	0.00000
	0.007794	0.005134	-0.132556	0.00000	0.00002	0.00001
	0.003481	0.002343	-0.132425	0.00000	0.00002	0.00000
	0.012755	0.008039	-0.132702	-0.00001	0.00003	0.00001
	-0.016586	-0.009899	-0.131826	0.00004	-0.00001	-0.00001
	-0.007312	-0.004204	-0.132104	0.00003	0.00000	-0.00001
	0.000357	0.000010	-0.132325	0.00001	0.00001	0.00000
	0.009631	0.005706	-0.132603	-0.00001	0.00003	0.00001
	-0.019709	-0.012232	-0.131727	0.00005	-0.00002	-0.00002
	-0.010435	-0.006536	-0.132004	0.00003	0.00000	-0.00001
	-0.014748	-0.009327	-0.131873	0.00004	-0.00001	-0.00001
	-0.005474	-0.003631	-0.132150	0.00002	0.00000	0.00000
	-0.034815	-0.021569	-0.131274	0.00008	-0.00004	-0.00003
	-0.025540	-0.015874	-0.131551	0.00006	-0.00002	-0.00002
112	0.018577	0.008460	-0.155275	0.00016	-0.00026	0.00001
	0.027847	0.012557	-0.155267	0.00016	-0.00026	0.00002
	-0.001480	-0.000341	-0.155291	0.00017	-0.00027	0.00000
	0.007790	0.003756	-0.155284	0.00017	-0.00027	0.00001
	0.003479	0.001744	-0.155287	0.00017	-0.00027	0.00000
	0.012749	0.005840	-0.155279	0.00016	-0.00026	0.00001
	-0.016579	-0.007057	-0.155304	0.00017	-0.00028	-0.00001
	-0.007308	-0.002961	-0.155296	0.00017	-0.00027	-0.00001
	0.000358	-0.000047	-0.155288	0.00017	-0.00027	0.00000
	0.009629	0.004050	-0.155281	0.00017	-0.00027	0.00001
	-0.019699	-0.008848	-0.155305	0.00017	-0.00028	-0.00001
	-0.010429	-0.004752	-0.155298	0.00017	-0.00028	-0.00001
	-0.014740	-0.006764	-0.155301	0.00017	-0.00028	-0.00001
	-0.005470	-0.002667	-0.155293	0.00017	-0.00027	0.00000
	-0.034797	-0.015565	-0.155318	0.00018	-0.00029	-0.00003
	-0.025527	-0.011468	-0.155310	0.00018	-0.00028	-0.00002
115	0.018811	0.000310	-0.140159	-0.00013	0.00012	0.00001
	0.028201	0.000343	-0.140139	-0.00013	0.00013	0.00002
	-0.001503	0.000250	-0.140202	-0.00013	0.00008	0.00000
	0.007887	0.000283	-0.140182	-0.00013	0.00010	0.00001
	0.003517	0.000247	-0.140193	-0.00013	0.00009	0.00000
	0.012907	0.000279	-0.140173	-0.00013	0.00011	0.00001
	-0.016797	0.000187	-0.140236	-0.00013	0.00005	-0.00001
	-0.007408	0.000219	-0.140216	-0.00013	0.00007	-0.00001
	0.000374	-0.000212	-0.140209	-0.00013	0.00008	0.00000
	0.009763	-0.000179	-0.140189	-0.00013	0.00010	0.00001

	-0.019941	-0.000272	-0.140252	-0.00013	0.00005	-0.00001
	-0.010551	-0.000239	-0.140232	-0.00013	0.00006	-0.00001
	-0.014921	-0.000275	-0.140243	-0.00013	0.00006	-0.00001
	-0.005531	-0.000243	-0.140223	-0.00013	0.00007	0.00000
	-0.035235	-0.000335	-0.140286	-0.00012	0.00002	-0.00003
	-0.025845	-0.000303	-0.140266	-0.00013	0.00004	-0.00002
116	0.018736	-0.003748	-0.122959	0.00003	-0.00045	0.00001
	0.028089	-0.005713	-0.122925	0.00004	-0.00044	0.00002
	-0.001499	0.000504	-0.123032	0.00002	-0.00046	0.00000
	0.007855	-0.001461	-0.122998	0.00002	-0.00046	0.00001
	0.003497	-0.000539	-0.123014	0.00002	-0.00046	0.00000
	0.012851	-0.002503	-0.122980	0.00003	-0.00045	0.00001
	-0.016737	0.003713	-0.123087	0.00000	-0.00048	-0.00001
	-0.007384	0.001748	-0.123053	0.00001	-0.00047	-0.00001
	0.000382	-0.000264	-0.123020	0.00002	-0.00046	0.00000
	0.009735	-0.002229	-0.122986	0.00003	-0.00045	0.00001
	-0.019853	0.003988	-0.123092	0.00000	-0.00048	-0.00001
	-0.010499	0.002023	-0.123059	0.00001	-0.00047	-0.00001
	-0.014857	0.002945	-0.123075	0.00001	-0.00047	-0.00001
	-0.005504	0.000980	-0.123041	0.00001	-0.00047	0.00000
	-0.035091	0.007197	-0.123148	-0.00001	-0.00049	-0.00003
	-0.025738	0.005232	-0.123114	0.00000	-0.00048	-0.00002
117	0.024171	-0.003229	-0.110044	0.00027	-0.00004	0.00001
	0.036236	-0.004940	-0.110526	0.00027	-0.00001	0.00002
	-0.001908	0.000478	-0.109003	0.00027	-0.00012	0.00000
	0.010157	-0.001233	-0.109485	0.00027	-0.00008	0.00001
	0.004508	-0.000439	-0.109259	0.00027	-0.00010	0.00000
	0.016572	-0.002150	-0.109741	0.00027	-0.00006	0.00001
	-0.021571	0.003267	-0.108218	0.00027	-0.00017	-0.00001
	-0.009506	0.001556	-0.108699	0.00027	-0.00014	-0.00001
	0.000486	-0.000256	-0.109106	0.00027	-0.00011	0.00000
	0.012551	-0.001967	-0.109588	0.00027	-0.00007	0.00001
	-0.025593	0.003450	-0.108065	0.00027	-0.00018	-0.00001
	-0.013528	0.001739	-0.108547	0.00027	-0.00015	-0.00001
	-0.019177	0.002534	-0.108321	0.00027	-0.00016	-0.00001
	-0.007113	0.000823	-0.108803	0.00027	-0.00013	0.00000
	-0.045256	0.006240	-0.107280	0.00028	-0.00024	-0.00002
	-0.033191	0.004529	-0.107761	0.00028	-0.00020	-0.00002
118	0.027160	0.000006	-0.158739	-0.00021	0.00014	0.00001
	0.040710	-0.000176	-0.158563	-0.00021	0.00016	0.00002
	-0.002117	0.000421	-0.159121	-0.00022	0.00011	0.00000
	0.011433	0.000239	-0.158944	-0.00021	0.00012	0.00001
	0.005069	0.000292	-0.159027	-0.00021	0.00012	0.00000
	0.018619	0.000109	-0.158850	-0.00021	0.00013	0.00001
	-0.024208	0.000707	-0.159408	-0.00022	0.00008	-0.00001
	-0.010658	0.000525	-0.159232	-0.00022	0.00010	-0.00001
	0.000539	-0.000354	-0.159074	-0.00021	0.00011	0.00000
	0.014088	-0.000536	-0.158897	-0.00021	0.00013	0.00001
	-0.028739	0.000062	-0.159455	-0.00022	0.00007	-0.00001
	-0.015189	-0.000120	-0.159279	-0.00022	0.00009	-0.00001
	-0.021553	-0.000068	-0.159361	-0.00022	0.00008	-0.00001
	-0.008003	-0.000250	-0.159185	-0.00022	0.00010	0.00000
	-0.050830	0.000348	-0.159743	-0.00023	0.00005	-0.00003
	-0.037280	0.000165	-0.159566	-0.00022	0.00006	-0.00002
119	0.021484	0.004312	-0.114014	0.00001	0.00011	0.00000
	0.032201	0.006346	-0.113752	0.00000	0.00016	0.00000
	-0.001692	-0.000045	-0.114581	0.00003	0.00001	0.00000
	0.009025	0.001988	-0.114319	0.00002	0.00006	0.00000
	0.004020	0.000975	-0.114442	0.00003	0.00004	0.00000
	0.014737	0.003008	-0.114179	0.00002	0.00008	0.00000
	-0.019156	-0.003383	-0.115009	0.00005	-0.00006	0.00000
	-0.008438	-0.001350	-0.114746	0.00004	-0.00002	0.00000
	0.000417	-0.000122	-0.114523	0.00003	0.00002	0.00000
	0.011135	0.001911	-0.114261	0.00002	0.00007	0.00000
	-0.022758	-0.004480	-0.115090	0.00006	-0.00008	0.00000
	-0.012041	-0.002446	-0.114828	0.00005	-0.00003	0.00000
	-0.017047	-0.003460	-0.114950	0.00005	-0.00005	0.00000
	-0.006329	-0.001427	-0.114688	0.00004	-0.00001	0.00000
	-0.040222	-0.007817	-0.115517	0.00007	-0.00015	0.00000
	-0.029505	-0.005784	-0.115255	0.00006	-0.00011	0.00000
120	0.031902	-0.000049	-0.122192	-0.00006	-0.00001	0.00001
	0.047813	-0.000283	-0.122041	-0.00007	0.00001	0.00002
	-0.002461	0.000477	-0.122519	-0.00003	-0.00006	0.00000
	0.013450	0.000243	-0.122368	-0.00004	-0.00004	0.00001
	0.005951	0.000322	-0.122438	-0.00004	-0.00005	0.00000
	0.021861	0.000088	-0.122287	-0.00005	-0.00003	0.00001
	-0.028412	0.000848	-0.122765	-0.00001	-0.00010	-0.00001
	-0.012501	0.000614	-0.122614	-0.00002	-0.00008	-0.00001
	0.000626	-0.000405	-0.122487	-0.00003	-0.00006	0.00000
	0.016537	-0.000639	-0.122336	-0.00005	-0.00004	0.00001
	-0.033736	0.000121	-0.122814	-0.00001	-0.00011	-0.00002
	-0.017825	-0.000112	-0.122663	-0.00002	-0.00009	-0.00001
	-0.025325	-0.000034	-0.122733	-0.00001	-0.00010	-0.00001
	-0.009414	-0.000268	-0.122582	-0.00003	-0.00008	0.00000
	-0.059687	0.000492	-0.123060	0.00001	-0.00015	-0.00003
	-0.043777	0.000259	-0.122909	0.00000	-0.00013	-0.00002

121	0.034638	-0.002981	-0.097722	-0.00017	0.00012	0.00001
	0.051909	-0.004575	-0.096483	-0.00016	0.00017	0.00002
	-0.002654	0.000472	-0.100397	-0.00017	0.00001	0.00000
	0.014617	-0.001122	-0.099158	-0.00017	0.00006	0.00001
	0.006460	-0.000384	-0.099744	-0.00017	0.00003	0.00000
	0.023732	-0.001978	-0.098505	-0.00017	0.00009	0.00001
	-0.030831	0.003069	-0.102420	-0.00018	-0.00008	-0.00001
	-0.013560	0.001475	-0.101180	-0.00017	-0.00003	0.00000
	0.000677	-0.000257	-0.100208	-0.00017	0.00002	0.00000
	0.017948	-0.001850	-0.098968	-0.00017	0.00007	0.00001
	-0.036615	0.003196	-0.102883	-0.00018	-0.00010	-0.00001
	-0.019344	0.001603	-0.101644	-0.00017	-0.00004	-0.00001
	-0.027501	0.002341	-0.102230	-0.00018	-0.00007	-0.00001
	-0.010229	0.000747	-0.100991	-0.00017	-0.00002	0.00000
	-0.064792	0.005794	-0.104905	-0.00018	-0.00018	-0.00002
	-0.047521	0.004200	-0.103666	-0.00018	-0.00013	-0.00002
122	0.026749	0.019478	-0.094939	-0.00006	0.00001	0.00001
	0.040090	0.029051	-0.096446	-0.00008	0.00004	0.00002
	-0.002081	-0.001113	-0.091690	-0.00002	-0.00006	0.00000
	0.011260	0.008460	-0.093197	-0.00004	-0.00003	0.00001
	0.004997	0.003796	-0.092478	-0.00003	-0.00004	0.00000
	0.018339	0.013369	-0.093984	-0.00005	-0.00001	0.00001
	-0.023833	-0.016794	-0.089229	0.00002	-0.00011	-0.00001
	-0.010491	-0.007221	-0.090735	0.00000	-0.00008	-0.00001
	0.000508	0.000151	-0.091943	-0.00002	-0.00005	0.00000
	0.013849	0.009724	-0.093449	-0.00004	-0.00002	0.00001
	-0.028322	-0.020440	-0.088694	0.00003	-0.00012	-0.00002
	-0.014981	-0.010867	-0.090200	0.00000	-0.00009	-0.00001
	-0.021244	-0.015531	-0.089481	0.00001	-0.00010	-0.00001
	-0.007902	-0.005958	-0.090988	-0.00001	-0.00007	0.00000
	-0.050074	-0.036122	-0.086232	0.00006	-0.00017	-0.00003
	-0.036732	-0.026549	-0.087739	0.00004	-0.00014	-0.00002
123	0.030505	0.020663	-0.087892	-0.00001	-0.00004	0.00001
	0.045719	0.030826	-0.090061	-0.00001	-0.00002	0.00002
	-0.002360	-0.001199	-0.083210	0.00000	-0.00009	0.00000
	0.012854	0.008964	-0.085379	-0.00001	-0.00007	0.00001
	0.005693	0.004016	-0.084353	0.00000	-0.00008	0.00000
	0.020907	0.014179	-0.086522	-0.00001	-0.00005	0.00001
	-0.027172	-0.017846	-0.079671	0.00000	-0.00013	-0.00001
	-0.011957	-0.007682	-0.081840	0.00000	-0.00010	-0.00001
	0.000573	0.000173	-0.083608	0.00000	-0.00008	0.00000
	0.015788	0.010336	-0.085777	-0.00001	-0.00006	0.00001
	-0.032291	-0.021689	-0.078927	0.00000	-0.00014	-0.00001
	-0.017077	-0.011526	-0.081095	0.00000	-0.00011	-0.00001
	-0.024238	-0.016474	-0.080069	0.00000	-0.00012	-0.00001
	-0.009024	-0.006311	-0.082238	0.00000	-0.00010	0.00000
	-0.057103	-0.038336	-0.075388	0.00000	-0.00017	-0.00003
	-0.041889	-0.028172	-0.077556	0.00000	-0.00015	-0.00002
124	0.032955	0.020377	-0.085789	-0.00004	-0.00005	0.00001
	0.049392	0.030396	-0.087247	-0.00006	-0.00001	0.00002
	-0.002541	-0.001176	-0.082638	0.00000	-0.00012	0.00000
	0.013896	0.008844	-0.084097	-0.00002	-0.00009	0.00001
	0.006147	0.003963	-0.083411	-0.00001	-0.00010	0.00000
	0.022584	0.013983	-0.084869	-0.00003	-0.00007	0.00001
	-0.029349	-0.017589	-0.080260	0.00004	-0.00018	-0.00001
	-0.012912	-0.007569	-0.081719	0.00001	-0.00014	-0.00001
	0.000625	0.000166	-0.082924	0.00000	-0.00011	0.00000
	0.017061	0.010186	-0.084382	-0.00002	-0.00008	0.00001
	-0.034872	-0.021387	-0.079773	0.00004	-0.00019	-0.00001
	-0.018435	-0.011367	-0.081232	0.00002	-0.00016	-0.00001
	-0.026184	-0.016247	-0.080546	0.00003	-0.00017	-0.00001
	-0.009747	-0.006227	-0.082004	0.00001	-0.00014	0.00000
	-0.061680	-0.037800	-0.077395	0.00008	-0.00025	-0.00003
	-0.045243	-0.027780	-0.078854	0.00006	-0.00021	-0.00002
125	0.032742	0.018429	-0.100229	0.00008	-0.00004	0.00001
	0.049072	0.027478	-0.099930	0.00008	-0.00003	0.00002
	-0.002525	-0.001034	-0.100877	0.00008	-0.00007	0.00000
	0.013805	0.008015	-0.100578	0.00008	-0.00006	0.00001
	0.006108	0.003603	-0.100716	0.00008	-0.00007	0.00000
	0.022438	0.012652	-0.100417	0.00008	-0.00005	0.00001
	-0.029158	-0.015860	-0.101364	0.00008	-0.00010	-0.00001
	-0.012828	-0.006811	-0.101065	0.00008	-0.00008	-0.00001
	0.000621	0.000126	-0.100807	0.00008	-0.00007	0.00000
	0.016951	0.009176	-0.100508	0.00008	-0.00006	0.00001
	-0.034646	-0.019336	-0.101455	0.00008	-0.00010	-0.00002
	-0.018316	-0.010287	-0.101156	0.00008	-0.00009	-0.00001
	-0.026013	-0.014700	-0.101294	0.00008	-0.00009	-0.00001
	-0.009683	-0.005651	-0.100995	0.00008	-0.00008	0.00000
	-0.061279	-0.034163	-0.101942	0.00008	-0.00012	-0.00003
	-0.044950	-0.025113	-0.101643	0.00008	-0.00011	-0.00002
126	0.036749	0.020378	-0.080347	0.00001	-0.00039	0.00001
	0.055075	0.030398	-0.081278	-0.00001	-0.00033	0.00002
	-0.002815	-0.001175	-0.078333	0.00006	-0.00050	0.00000
	0.015511	0.008845	-0.079264	0.00004	-0.00045	0.00001
	0.006852	0.003964	-0.078831	0.00005	-0.00047	0.00000

	0.025178	0.013984	-0.079762	0.00003	-0.00042	0.00001
	-0.032711	-0.017588	-0.076817	0.00010	-0.00059	-0.00001
	-0.014386	-0.007568	-0.077748	0.00008	-0.00053	-0.00001
	0.000699	0.000165	-0.078537	0.00006	-0.00049	0.00000
	0.019025	0.010185	-0.079468	0.00003	-0.00044	0.00001
	-0.038865	-0.021387	-0.076523	0.00011	-0.00060	-0.00001
	-0.020539	-0.011368	-0.077454	0.00009	-0.00055	-0.00001
	-0.029198	-0.016248	-0.077021	0.00010	-0.00058	-0.00001
	-0.010872	-0.006229	-0.077952	0.00007	-0.00052	0.00000
	-0.068762	-0.037801	-0.075007	0.00015	-0.00069	-0.00003
	-0.050436	-0.027781	-0.075938	0.00013	-0.00064	-0.00002
127	0.036967	0.014205	-0.126746	0.00017	0.00020	0.00001
	0.055399	0.021152	-0.126115	0.00017	0.00021	0.00002
	-0.002826	-0.000731	-0.128107	0.00015	0.00017	0.00000
	0.015606	0.006215	-0.127477	0.00016	0.00019	0.00001
	0.006895	0.002820	-0.127773	0.00015	0.00018	0.00000
	0.025327	0.009767	-0.127143	0.00016	0.00019	0.00001
	-0.032898	-0.012116	-0.129135	0.00014	0.00016	-0.00001
	-0.014466	-0.005170	-0.128504	0.00015	0.00017	-0.00001
	0.000708	0.000040	-0.127979	0.00015	0.00018	0.00000
	0.019140	0.006986	-0.127349	0.00016	0.00019	0.00001
	-0.039085	-0.014896	-0.129341	0.00014	0.00015	-0.00001
	-0.020653	-0.007950	-0.128710	0.00015	0.00016	-0.00001
	-0.029364	-0.011345	-0.129006	0.00014	0.00016	-0.00001
	-0.010932	-0.004399	-0.128376	0.00015	0.00017	0.00000
	-0.069157	-0.026282	-0.130368	0.00013	0.00013	-0.00003
	-0.050725	-0.019335	-0.129738	0.00013	0.00014	-0.00002
128	0.000000	0.000000	-0.113872	-0.00013	-0.00006	0.00000
	0.000000	0.000000	-0.113640	-0.00012	-0.00006	0.00000
	0.000000	0.000000	-0.114375	-0.00013	-0.00007	0.00000
	0.000000	0.000000	-0.114143	-0.00013	-0.00007	0.00000
	0.000000	0.000000	-0.114250	-0.00013	-0.00007	0.00000
	0.000000	0.000000	-0.114018	-0.00013	-0.00006	0.00000
	0.000000	0.000000	-0.114753	-0.00014	-0.00008	0.00000
	0.000000	0.000000	-0.114521	-0.00013	-0.00007	0.00000
	0.000000	0.000000	-0.114315	-0.00013	-0.00007	0.00000
	0.000000	0.000000	-0.114083	-0.00013	-0.00007	0.00000
	0.000000	0.000000	-0.114818	-0.00014	-0.00008	0.00000
	0.000000	0.000000	-0.114586	-0.00013	-0.00007	0.00000
	0.000000	0.000000	-0.114693	-0.00014	-0.00008	0.00000
	0.000000	0.000000	-0.114461	-0.00013	-0.00007	0.00000
	0.000000	0.000000	-0.115196	-0.00014	-0.00009	0.00000
	0.000000	0.000000	-0.114964	-0.00014	-0.00008	0.00000
129	0.042295	0.014934	-0.120719	0.00022	0.00015	0.00001
	0.063380	0.022242	-0.120490	0.00020	0.00021	0.00002
	-0.003210	-0.000781	-0.121213	0.00027	0.00003	0.00000
	0.017875	0.006527	-0.120985	0.00025	0.00009	0.00001
	0.007883	0.002956	-0.121090	0.00026	0.00006	0.00000
	0.028968	0.010264	-0.120862	0.00023	0.00012	0.00001
	-0.037623	-0.012759	-0.121585	0.00031	-0.00006	-0.00001
	-0.016537	-0.005451	-0.121356	0.00028	-0.00001	-0.00001
	0.000810	0.000053	-0.121155	0.00027	0.00004	0.00000
	0.021896	0.007361	-0.120927	0.00024	0.00010	0.00001
	-0.044695	-0.015663	-0.121650	0.00031	-0.00008	-0.00001
	-0.023610	-0.008354	-0.121421	0.00029	-0.00003	-0.00001
	-0.033602	-0.011925	-0.121527	0.00030	-0.00005	-0.00001
	-0.012517	-0.004617	-0.121298	0.00028	0.00000	0.00000
	-0.079107	-0.027640	-0.122022	0.00035	-0.00018	-0.00003
	-0.058022	-0.020332	-0.121793	0.00033	-0.00012	-0.00002
136	0.042064	0.004473	-0.097178	-0.00004	0.00031	0.00001
	0.063031	0.006575	-0.094536	-0.00005	0.00038	0.00002
	-0.003188	-0.000033	-0.102878	-0.00002	0.00018	0.00000
	0.017779	0.002069	-0.100236	-0.00003	0.00024	0.00001
	0.007842	0.001020	-0.101493	-0.00002	0.00021	0.00000
	0.028809	0.003122	-0.098851	-0.00003	0.00027	0.00001
	-0.037409	-0.003485	-0.107193	0.00000	0.00007	-0.00001
	-0.016442	-0.001383	-0.104550	-0.00001	0.00014	0.00000
	0.000808	-0.000145	-0.102418	-0.00002	0.00019	0.00000
	0.021775	0.001957	-0.099776	-0.00003	0.00025	0.00001
	-0.044444	-0.004651	-0.108118	0.00000	0.00005	-0.00001
	-0.023476	-0.002549	-0.105476	-0.00001	0.00011	-0.00001
	-0.033413	-0.003598	-0.106733	0.00000	0.00008	-0.00001
	-0.012446	-0.001496	-0.104090	-0.00001	0.00015	0.00000
	-0.078665	-0.008103	-0.112433	0.00002	-0.00005	-0.00002
	-0.057698	-0.006001	-0.109790	0.00001	0.00001	-0.00002
137	0.039329	0.007206	-0.123756	0.00011	0.00011	0.00001
	0.058937	0.010668	-0.123446	0.00009	0.00013	0.00002
	-0.002995	-0.000229	-0.124424	0.00017	0.00006	0.00000
	0.016613	0.003234	-0.124114	0.00014	0.00008	0.00001
	0.007334	0.001525	-0.124262	0.00015	0.00007	0.00000
	0.026942	0.004987	-0.123952	0.00013	0.00009	0.00001
	-0.034990	-0.005910	-0.124931	0.00021	0.00003	-0.00001
	-0.015382	-0.002447	-0.124621	0.00018	0.00005	-0.00001
	0.000758	-0.000093	-0.124375	0.00016	0.00007	0.00000
	0.020365	0.003369	-0.124065	0.00014	0.00009	0.00001
	-0.041566	-0.007528	-0.125043	0.00022	0.00002	-0.00002

	-0.021959	-0.004066	-0.124733	0.00019	0.00004	-0.00001
	-0.031238	-0.005774	-0.124882	0.00020	0.00003	-0.00001
	-0.011630	-0.002312	-0.124572	0.00018	0.00005	0.00000
	-0.073561	-0.013209	-0.125550	0.00026	-0.00001	-0.00003
	-0.053954	-0.009746	-0.125240	0.00023	0.00001	-0.00002
140	0.039223	0.011950	-0.134786	0.00018	0.00002	0.00001
	0.058779	0.017773	-0.133904	0.00018	0.00003	0.00002
	-0.002989	-0.000567	-0.136689	0.00018	0.00000	0.00000
	0.016567	0.005256	-0.135807	0.00018	0.00001	0.00001
	0.007313	0.002404	-0.136228	0.00018	0.00000	0.00000
	0.026869	0.008227	-0.135346	0.00018	0.00001	0.00001
	-0.034899	-0.010114	-0.138131	0.00018	-0.00002	-0.00001
	-0.015343	-0.004291	-0.137248	0.00018	-0.00001	-0.00001
	0.000752	-0.000005	-0.136544	0.00018	0.00000	0.00000
	0.020308	0.005818	-0.135662	0.00018	0.00001	0.00001
	-0.041460	-0.012523	-0.138447	0.00018	-0.00002	-0.00001
	-0.021904	-0.006700	-0.137564	0.00018	-0.00001	-0.00001
	-0.031158	-0.009552	-0.137986	0.00018	-0.00001	-0.00001
	-0.011602	-0.003729	-0.137103	0.00018	0.00000	0.00000
	-0.073370	-0.022069	-0.139888	0.00018	-0.00004	-0.00003
	-0.053814	-0.016246	-0.139006	0.00018	-0.00003	-0.00002
141	0.047221	0.009630	-0.097805	-0.00035	0.00035	0.00001
	0.070756	0.014298	-0.097311	-0.00037	0.00043	0.00002
	-0.003559	-0.000401	-0.098867	-0.00031	0.00018	0.00000
	0.019976	0.004267	-0.098373	-0.00033	0.00026	0.00001
	0.008799	0.001976	-0.098614	-0.00032	0.00023	0.00000
	0.032334	0.006644	-0.098120	-0.00034	0.00030	0.00001
	-0.041981	-0.008056	-0.099676	-0.00027	0.00006	-0.00001
	-0.018447	-0.003387	-0.099182	-0.00030	0.00013	0.00000
	0.000905	-0.000047	-0.098820	-0.00031	0.00020	0.00000
	0.024440	0.004621	-0.098326	-0.00033	0.00028	0.00001
	-0.049875	-0.010078	-0.099882	-0.00027	0.00003	-0.00001
	-0.026340	-0.005410	-0.099388	-0.00029	0.00011	-0.00001
	-0.037518	-0.007702	-0.099629	-0.00028	0.00007	-0.00001
	-0.013983	-0.003033	-0.099135	-0.00030	0.00015	0.00000
	-0.088298	-0.017733	-0.100691	-0.00023	-0.00010	-0.00002
	-0.064763	-0.013065	-0.100197	-0.00025	-0.00002	-0.00002
142	0.029478	-0.008147	-0.095261	-0.00017	0.00043	0.00001
	0.044183	-0.012308	-0.094008	-0.00016	0.00048	0.00002
	-0.002285	0.000833	-0.097969	-0.00020	0.00033	0.00000
	0.012420	-0.003328	-0.096716	-0.00019	0.00037	0.00001
	0.005496	-0.001343	-0.097305	-0.00019	0.00035	0.00000
	0.020201	-0.005504	-0.096052	-0.00018	0.00040	0.00001
	-0.026268	0.007637	-0.100012	-0.00021	0.00025	-0.00001
	-0.011563	0.003476	-0.098759	-0.00020	0.00030	0.00000
	0.000588	-0.000357	-0.097725	-0.00019	0.00033	0.00000
	0.015293	-0.004518	-0.096472	-0.00018	0.00038	0.00001
	-0.031176	0.008623	-0.100433	-0.00022	0.00023	-0.00001
	-0.016471	0.004462	-0.099179	-0.00021	0.00028	-0.00001
	-0.023395	0.006447	-0.099768	-0.00021	0.00026	-0.00001
	-0.008690	0.002286	-0.098515	-0.00020	0.00031	0.00000
	-0.055158	0.015427	-0.102476	-0.00023	0.00016	-0.00002
	-0.040453	0.011266	-0.101223	-0.00022	0.00020	-0.00002
143	0.029685	0.001997	-0.137202	0.00001	0.00001	0.00001
	0.044492	0.002868	-0.138880	0.00001	0.00004	0.00002
	-0.002301	0.000143	-0.133581	0.00000	-0.00006	0.00000
	0.012506	0.001014	-0.135258	0.00000	-0.00003	0.00001
	0.005538	0.000560	-0.134465	0.00000	-0.00004	0.00000
	0.020346	0.001431	-0.136143	0.00000	-0.00001	0.00001
	-0.026447	-0.001294	-0.130844	0.00000	-0.00012	-0.00001
	-0.011640	-0.000423	-0.132521	0.00000	-0.00008	-0.00001
	0.000585	-0.000187	-0.133863	0.00000	-0.00006	0.00000
	0.015393	0.000683	-0.135541	0.00001	-0.00002	0.00001
	-0.031400	-0.002041	-0.130242	0.00000	-0.00013	-0.00001
	-0.016593	-0.001170	-0.131920	0.00000	-0.00010	-0.00001
	-0.023561	-0.001624	-0.131127	0.00000	-0.00011	-0.00001
	-0.008754	-0.000754	-0.132804	0.00000	-0.00008	0.00000
	-0.055547	-0.003478	-0.127505	0.00000	-0.00019	-0.00003
	-0.040739	-0.002607	-0.129183	0.00000	-0.00015	-0.00002
144	0.037109	0.009423	-0.134576	0.00003	0.00000	0.00001
	0.055612	0.013989	-0.136355	0.00001	0.00003	0.00002
	-0.002836	-0.000388	-0.130742	0.00006	-0.00006	0.00000
	0.015667	0.004178	-0.132520	0.00005	-0.00003	0.00001
	0.006922	0.001936	-0.131671	0.00005	-0.00005	0.00000
	0.025425	0.006502	-0.133449	0.00004	-0.00002	0.00001
	-0.033023	-0.007875	-0.127837	0.00009	-0.00011	-0.00001
	-0.014521	-0.003309	-0.129615	0.00007	-0.00008	-0.00001
	0.000713	-0.000051	-0.131030	0.00006	-0.00006	0.00000
	0.019216	0.004515	-0.132808	0.00005	-0.00003	0.00001
	-0.039232	-0.009862	-0.127196	0.00009	-0.00012	-0.00001
	-0.020729	-0.005296	-0.128974	0.00008	-0.00009	-0.00001
	-0.029474	-0.007538	-0.128125	0.00008	-0.00011	-0.00001
	-0.010972	-0.002972	-0.129903	0.00007	-0.00008	0.00000
	-0.069420	-0.017349	-0.124291	0.00012	-0.00017	-0.00003
	-0.050917	-0.012783	-0.126069	0.00010	-0.00014	-0.00002

145	0.042657	0.020599	-0.081694	-0.00016	-0.00026	0.00001
	0.063924	0.030727	-0.082773	-0.00019	-0.00019	0.00002
	-0.003239	-0.001188	-0.079359	-0.00008	-0.00041	0.00000
	0.018027	0.008940	-0.080438	-0.00012	-0.00034	0.00000
	0.007949	0.004006	-0.079939	-0.00010	-0.00037	0.00000
	0.029215	0.014135	-0.081018	-0.00014	-0.00030	0.00001
	-0.037948	-0.017781	-0.077604	-0.00002	-0.00052	-0.00001
	-0.016681	-0.007652	-0.078683	-0.00006	-0.00045	0.00000
	0.000814	0.000170	-0.079620	-0.00009	-0.00039	0.00000
	0.022081	0.010298	-0.080699	-0.00012	-0.00032	0.00001
	-0.045082	-0.021617	-0.077285	-0.00001	-0.00054	-0.00001
	-0.023816	-0.011489	-0.078363	-0.00005	-0.00047	-0.00001
	-0.033894	-0.016423	-0.077865	-0.00003	-0.00051	-0.00001
	-0.012628	-0.006294	-0.078944	-0.00006	-0.00044	0.00000
	-0.079791	-0.038210	-0.075530	0.00005	-0.00065	-0.00002
	-0.058524	-0.028081	-0.076608	0.00001	-0.00059	-0.00002
154	0.027057	0.020590	-0.092887	-0.00005	0.00004	0.00001
	0.040553	0.030721	-0.096075	-0.00007	0.00008	0.00002
	-0.002105	-0.001200	-0.086007	0.00001	-0.00004	0.00000
	0.011391	0.008931	-0.089196	-0.00002	0.00000	0.00001
	0.005054	0.004000	-0.087680	0.00000	-0.00002	0.00000
	0.018550	0.014131	-0.090869	-0.00003	0.00002	0.00001
	-0.024108	-0.017790	-0.080801	0.00005	-0.00010	-0.00001
	-0.010612	-0.007659	-0.083989	0.00003	-0.00006	-0.00001
	0.000514	0.000174	-0.086565	0.00001	-0.00003	0.00000
	0.014010	0.010305	-0.089753	-0.00002	0.00000	0.00001
	-0.028648	-0.021616	-0.079686	0.00006	-0.00011	-0.00001
	-0.015152	-0.011485	-0.082874	0.00003	-0.00007	-0.00001
	-0.021489	-0.016416	-0.081359	0.00005	-0.00009	-0.00001
	-0.007993	-0.006285	-0.084547	0.00002	-0.00006	0.00000
	-0.050651	-0.038206	-0.074479	0.00010	-0.00017	-0.00003
	-0.037155	-0.028075	-0.077668	0.00008	-0.00013	-0.00002
155	0.029377	0.009726	-0.096839	-0.00005	0.00013	0.00000
	0.044030	0.014447	-0.096801	-0.00007	0.00020	0.00000
	-0.002275	-0.000418	-0.096921	0.00000	-0.00001	0.00000
	0.012377	0.004303	-0.096883	-0.00002	0.00006	0.00000
	0.005485	0.001985	-0.096901	-0.00001	0.00003	0.00000
	0.020137	0.006706	-0.096863	-0.00003	0.00009	0.00000
	-0.026168	-0.008160	-0.096983	0.00004	-0.00011	0.00000
	-0.011515	-0.003439	-0.096945	0.00002	-0.00005	0.00000
	0.000565	-0.000033	-0.096913	0.00000	0.00001	0.00000
	0.015217	0.004689	-0.096875	-0.00002	0.00007	0.00000
	-0.031088	-0.010177	-0.096995	0.00005	-0.00013	0.00000
	-0.016436	-0.005456	-0.096957	0.00003	-0.00007	0.00000
	-0.023328	-0.007774	-0.096975	0.00004	-0.00010	0.00000
	-0.008675	-0.003053	-0.096937	0.00002	-0.00003	0.00000
	-0.054980	-0.017919	-0.097057	0.00009	-0.00024	0.00000
	-0.040328	-0.013198	-0.097019	0.00007	-0.00017	0.00000
156	0.022934	0.016173	-0.107344	-0.00008	-0.00001	0.00001
	0.034377	0.024104	-0.107804	-0.00011	0.00002	0.00002
	-0.001808	-0.000883	-0.106354	-0.00001	-0.00009	0.00000
	0.009635	0.007048	-0.106814	-0.00004	-0.00005	0.00001
	0.004289	0.003181	-0.106591	-0.00003	-0.00007	0.00000
	0.015732	0.011112	-0.107051	-0.00006	-0.00003	0.00001
	-0.020453	-0.013875	-0.105601	0.00003	-0.00015	-0.00001
	-0.009010	-0.005944	-0.106061	0.00000	-0.00011	-0.00001
	0.000439	0.000094	-0.106420	-0.00002	-0.00008	0.00000
	0.011882	0.008025	-0.106880	-0.00005	-0.00005	0.00001
	-0.024302	-0.016962	-0.105429	0.00005	-0.00016	-0.00001
	-0.012859	-0.009032	-0.105889	0.00002	-0.00012	-0.00001
	-0.018205	-0.012898	-0.105667	0.00003	-0.00014	-0.00001
	-0.006762	-0.004967	-0.106127	0.00000	-0.00010	0.00000
	-0.042947	-0.029954	-0.104676	0.00009	-0.00022	-0.00003
	-0.031504	-0.022024	-0.105136	0.00006	-0.00018	-0.00002
157	0.035821	0.003287	-0.106289	-0.00008	0.00007	0.00001
	0.053683	0.004799	-0.106221	-0.00011	0.00010	0.00002
	-0.002742	0.000051	-0.106434	-0.00002	-0.00001	0.00000
	0.015119	0.001564	-0.106366	-0.00005	0.00003	0.00001
	0.006681	0.000800	-0.106398	-0.00003	0.00001	0.00000
	0.024542	0.002312	-0.106331	-0.00006	0.00004	0.00001
	-0.031883	-0.002436	-0.106543	0.00003	-0.00006	-0.00001
	-0.014021	-0.000923	-0.106476	0.00000	-0.00003	-0.00001
	0.000695	-0.000166	-0.106422	-0.00002	0.00000	0.00000
	0.018557	0.001346	-0.106355	-0.00005	0.00003	0.00001
	-0.037869	-0.003402	-0.106567	0.00005	-0.00007	-0.00001
	-0.020007	-0.001890	-0.106500	0.00001	-0.00004	-0.00001
	-0.028445	-0.002654	-0.106531	0.00003	-0.00006	-0.00001
	-0.010584	-0.001141	-0.106464	0.00000	-0.00002	0.00000
	-0.067009	-0.005889	-0.106676	0.00010	-0.00013	-0.00003
	-0.049147	-0.004377	-0.106609	0.00007	-0.00010	-0.00002
158	0.014104	-0.012070	-0.170102	0.00002	0.00149	0.00001
	0.021146	-0.018175	-0.169814	0.00003	0.00150	0.00002
	-0.001148	0.001086	-0.170726	-0.00001	0.00146	0.00000
	0.005894	-0.005018	-0.170438	0.00001	0.00147	0.00001
	0.002644	-0.002063	-0.170569	0.00000	0.00147	0.00000
	0.009685	-0.008168	-0.170282	0.00001	0.00148	0.00001

	-0.012608	0.011093	-0.171193	-0.00003	0.00144	-0.00001
	-0.005567	0.004988	-0.170905	-0.00001	0.00145	-0.00001
	0.000295	-0.000441	-0.170668	0.00000	0.00146	0.00000
	0.007337	-0.006545	-0.170381	0.00001	0.00148	0.00001
	-0.014957	0.012716	-0.171292	-0.00003	0.00144	-0.00001
	-0.007915	0.006611	-0.171004	-0.00002	0.00145	-0.00001
	-0.011165	0.009566	-0.171136	-0.00002	0.00144	-0.00001
	-0.004124	0.003462	-0.170848	-0.00001	0.00146	0.00000
	-0.026417	0.022723	-0.171759	-0.00005	0.00142	-0.00002
	-0.019376	0.016618	-0.171472	-0.00004	0.00143	-0.00002
159	0.009401	-0.012084	-0.182508	0.00003	0.00145	0.00001
	0.014094	-0.018190	-0.182367	0.00004	0.00145	0.00002
	-0.000769	0.001066	-0.182813	0.00000	0.00143	0.00000
	0.003924	-0.005039	-0.182672	0.00001	0.00144	0.00001
	0.001755	-0.002068	-0.182737	0.00000	0.00143	0.00000
	0.006448	-0.008174	-0.182596	0.00002	0.00144	0.00001
	-0.008415	0.011082	-0.183042	-0.00002	0.00142	-0.00001
	-0.003722	0.004977	-0.182901	-0.00001	0.00142	-0.00001
	0.000222	-0.000440	-0.182781	0.00000	0.00143	0.00000
	0.004915	-0.006545	-0.182640	0.00001	0.00144	0.00001
	-0.009948	0.012711	-0.183086	-0.00003	0.00141	-0.00001
	-0.005255	0.006605	-0.182945	-0.00001	0.00142	-0.00001
	-0.007425	0.009576	-0.183010	-0.00002	0.00142	-0.00001
	-0.002732	0.003471	-0.182869	-0.00001	0.00143	0.00000
	-0.017595	0.022726	-0.183315	-0.00005	0.00140	-0.00002
	-0.012902	0.016621	-0.183174	-0.00004	0.00141	-0.00002
160	0.004690	-0.012098	-0.185358	0.00003	0.00146	0.00001
	0.007037	-0.018204	-0.185307	0.00004	0.00146	0.00002
	-0.000392	0.001045	-0.185468	0.00000	0.00145	0.00000
	0.001955	-0.005061	-0.185417	0.00001	0.00145	0.00001
	0.000858	-0.002074	-0.185440	0.00000	0.00145	0.00000
	0.003205	-0.008180	-0.185390	0.00002	0.00145	0.00001
	-0.004223	0.011069	-0.185550	-0.00003	0.00144	-0.00001
	-0.001876	0.004962	-0.185500	-0.00001	0.00145	-0.00001
	0.000141	-0.000435	-0.185455	0.00000	0.00145	0.00000
	0.002488	-0.006542	-0.185404	0.00001	0.00145	0.00001
	-0.004941	0.012707	-0.185565	-0.00003	0.00144	-0.00001
	-0.002594	0.006601	-0.185514	-0.00002	0.00144	-0.00001
	-0.003691	0.009588	-0.185537	-0.00002	0.00144	-0.00001
	-0.001344	0.003482	-0.185487	-0.00001	0.00145	0.00000
	-0.008772	0.022731	-0.185647	-0.00005	0.00144	-0.00002
	-0.006425	0.016625	-0.185597	-0.00004	0.00144	-0.00002
161	-0.000018	-0.012110	-0.182504	0.00003	0.00143	0.00001
	-0.000025	-0.018218	-0.182540	0.00005	0.00143	0.00002
	-0.000072	0.001023	-0.182430	0.00000	0.00144	0.00000
	-0.000078	-0.005085	-0.182465	0.00002	0.00144	0.00001
	-0.000024	-0.002079	-0.182446	0.00001	0.00144	0.00000
	-0.000030	-0.008186	-0.182482	0.00002	0.00143	0.00001
	-0.000078	0.011055	-0.182372	-0.00002	0.00144	-0.00001
	-0.000084	0.004947	-0.182407	0.00000	0.00144	-0.00001
	0.000104	-0.000429	-0.182434	0.00001	0.00144	0.00000
	0.000098	-0.006536	-0.182469	0.00002	0.00144	0.00001
	0.000050	0.012704	-0.182360	-0.00002	0.00144	-0.00001
	0.000044	0.006597	-0.182395	-0.00001	0.00144	-0.00001
	0.000098	0.009603	-0.182376	-0.00001	0.00144	-0.00001
	0.000092	0.003495	-0.182411	0.00000	0.00144	0.00000
	0.000045	0.022736	-0.182302	-0.00004	0.00144	-0.00002
	0.000038	0.016629	-0.182337	-0.00003	0.00144	-0.00002
162	-0.004739	-0.012119	-0.172952	0.00003	0.00136	0.00001
	-0.007106	-0.018227	-0.173129	0.00004	0.00135	0.00002
	0.000269	0.001008	-0.172576	0.00000	0.00137	0.00000
	-0.002098	-0.005100	-0.172753	0.00001	0.00136	0.00001
	-0.000892	-0.002081	-0.172663	0.00001	0.00136	0.00000
	-0.003259	-0.008190	-0.172840	0.00002	0.00136	0.00001
	0.004116	0.011045	-0.172287	-0.00002	0.00137	-0.00001
	0.001749	0.004937	-0.172464	-0.00001	0.00137	-0.00001
	0.000016	-0.000424	-0.172599	0.00000	0.00137	0.00000
	-0.002350	-0.006532	-0.172777	0.00002	0.00136	0.00001
	0.005024	0.012703	-0.172223	-0.00002	0.00138	-0.00001
	0.002657	0.006595	-0.172400	-0.00001	0.00137	-0.00001
	0.003863	0.009614	-0.172310	-0.00002	0.00137	-0.00001
	0.001497	0.003505	-0.172487	-0.00001	0.00137	0.00000
	0.008871	0.022740	-0.171934	-0.00005	0.00138	-0.00002
	0.006504	0.016632	-0.172111	-0.00003	0.00138	-0.00002
163	-0.009463	-0.012122	-0.152588	0.00017	-0.00002	0.00001
	-0.014183	-0.018231	-0.152904	0.00019	-0.00003	0.00002
	0.000586	0.001001	-0.151921	0.00013	0.00001	0.00000
	-0.004134	-0.005107	-0.152237	0.00015	-0.00001	0.00001
	-0.001766	-0.002083	-0.152076	0.00014	0.00000	0.00000
	-0.006486	-0.008192	-0.152392	0.00016	-0.00001	0.00001
	0.008284	0.011041	-0.151409	0.00010	0.00003	-0.00001
	0.003564	0.004932	-0.151725	0.00012	0.00001	0.00000
	-0.000095	-0.000418	-0.151944	0.00013	0.00001	0.00000
	-0.004815	-0.006526	-0.152260	0.00015	-0.00001	0.00001
	0.009955	0.012706	-0.151277	0.00009	0.00003	-0.00001
	0.005235	0.006597	-0.151593	0.00011	0.00002	-0.00001

	0.007603	0.009622	-0.151432	0.00010	0.00003	-0.00001
	0.002883	0.003513	-0.151748	0.00012	0.00001	0.00000
	0.017652	0.022745	-0.150765	0.00006	0.00005	-0.00002
	0.012932	0.016637	-0.151081	0.00008	0.00004	-0.00002
164	-0.009504	0.016555	-0.151142	0.00008	-0.00003	0.00001
	-0.014220	0.024689	-0.150871	0.00006	-0.00004	0.00002
	0.000548	-0.000914	-0.151716	0.00014	0.00000	0.00000
	-0.004169	0.007219	-0.151444	0.00011	-0.00002	0.00001
	-0.001806	0.003225	-0.151584	0.00012	-0.00001	0.00000
	-0.006523	0.011358	-0.151312	0.00010	-0.00002	0.00001
	0.008245	-0.014245	-0.152157	0.00018	0.00002	-0.00001
	0.003529	-0.006111	-0.151886	0.00015	0.00000	0.00000
	-0.000085	0.000113	-0.151679	0.00013	0.00000	0.00000
	-0.004802	0.008246	-0.151407	0.00011	-0.00002	0.00001
	0.009967	-0.017356	-0.152253	0.00019	0.00002	-0.00001
	0.005250	-0.009223	-0.151981	0.00016	0.00001	-0.00001
	0.007612	-0.013218	-0.152121	0.00017	0.00002	-0.00001
	0.002896	-0.005084	-0.151849	0.00015	0.00000	0.00000
	0.017664	-0.030687	-0.152694	0.00023	0.00004	-0.00002
	0.012947	-0.022554	-0.152422	0.00020	0.00003	-0.00002
165	-0.004786	0.016560	-0.173546	-0.00003	-0.00136	0.00001
	-0.007150	0.024693	-0.173365	-0.00005	-0.00136	0.00002
	0.000224	-0.000911	-0.173929	0.00000	-0.00135	0.00000
	-0.002140	0.007221	-0.173749	-0.00001	-0.00135	0.00001
	-0.000935	0.003232	-0.173840	-0.00001	-0.00135	0.00000
	-0.003300	0.011364	-0.173660	-0.00002	-0.00136	0.00001
	0.004075	-0.014240	-0.174224	0.00003	-0.00134	-0.00001
	0.001710	-0.006107	-0.174043	0.00001	-0.00135	0.00000
	-0.000035	0.000107	-0.173905	0.00000	-0.00135	0.00000
	-0.002400	0.008240	-0.173725	-0.00002	-0.00136	0.00001
	0.004975	-0.017365	-0.174289	0.00004	-0.00134	-0.00001
	0.002610	-0.009232	-0.174109	0.00002	-0.00135	-0.00001
	0.003815	-0.013221	-0.174199	0.00003	-0.00134	-0.00001
	0.001451	-0.005089	-0.174019	0.00001	-0.00135	0.00000
	0.008825	-0.030693	-0.174583	0.00007	-0.00133	-0.00002
	0.006461	-0.022561	-0.174403	0.00005	-0.00134	-0.00002
166	-0.000015	0.016564	-0.180865	-0.00004	-0.00140	0.00001
	-0.000022	0.024696	-0.180861	-0.00006	-0.00140	0.00002
	-0.000102	-0.000912	-0.180870	0.00000	-0.00140	0.00000
	-0.000109	0.007219	-0.180867	-0.00002	-0.00140	0.00001
	0.000001	0.003242	-0.180870	-0.00001	-0.00140	0.00000
	-0.000006	0.011373	-0.180867	-0.00003	-0.00140	0.00001
	-0.000085	-0.014235	-0.180876	0.00003	-0.00140	-0.00001
	-0.000092	-0.006103	-0.180873	0.00001	-0.00140	0.00000
	0.000050	0.000104	-0.180871	0.00000	-0.00140	0.00000
	0.000043	0.008236	-0.180868	-0.00002	-0.00140	0.00001
	-0.000036	-0.017373	-0.180877	0.00004	-0.00140	-0.00001
	-0.000043	-0.009241	-0.180873	0.00002	-0.00140	-0.00001
	0.000066	-0.013219	-0.180876	0.00003	-0.00140	-0.00001
	0.000059	-0.005087	-0.180873	0.00001	-0.00140	0.00000
	-0.000020	-0.030695	-0.180882	0.00007	-0.00140	-0.00002
	-0.000027	-0.022564	-0.180879	0.00005	-0.00140	-0.00002
167	0.004658	0.016569	-0.168495	-0.00005	-0.00134	0.00001
	0.007001	0.024699	-0.168633	-0.00007	-0.00134	0.00002
	-0.000463	-0.000911	-0.168193	-0.00001	-0.00135	0.00000
	0.001880	0.007219	-0.168331	-0.00003	-0.00135	0.00001
	0.000864	0.003250	-0.168271	-0.00002	-0.00135	0.00000
	0.003207	0.011381	-0.168410	-0.00004	-0.00134	0.00001
	-0.004258	-0.014230	-0.167969	0.00001	-0.00136	-0.00001
	-0.001914	-0.006100	-0.168108	0.00000	-0.00135	-0.00001
	0.000087	0.000104	-0.168227	-0.00002	-0.00135	0.00000
	0.002430	0.008234	-0.168365	-0.00003	-0.00134	0.00001
	-0.005035	-0.017377	-0.167925	0.00002	-0.00136	-0.00001
	-0.002692	-0.009247	-0.168063	0.00000	-0.00135	-0.00001
	-0.003708	-0.013215	-0.168004	0.00001	-0.00136	-0.00001
	-0.001364	-0.005085	-0.168142	-0.00001	-0.00135	0.00000
	-0.008829	-0.030696	-0.167702	0.00005	-0.00137	-0.00002
	-0.006486	-0.022566	-0.167840	0.00003	-0.00136	-0.00002
168	0.009387	0.016569	-0.131055	-0.00014	-0.00016	0.00001
	0.014078	0.024698	-0.131200	-0.00016	-0.00015	0.00002
	-0.000800	-0.000914	-0.130728	-0.00009	-0.00017	0.00000
	0.003892	0.007215	-0.130873	-0.00011	-0.00016	0.00001
	0.001762	0.003253	-0.130826	-0.00010	-0.00017	0.00000
	0.006454	0.011382	-0.130971	-0.00012	-0.00016	0.00001
	-0.008424	-0.014230	-0.130499	-0.00005	-0.00018	-0.00001
	-0.003733	-0.006100	-0.130644	-0.00007	-0.00017	0.00000
	0.000177	0.000104	-0.130802	-0.00009	-0.00017	0.00000
	0.004869	0.008233	-0.130947	-0.00011	-0.00016	0.00001
	-0.010009	-0.017379	-0.130475	-0.00004	-0.00018	-0.00001
	-0.005317	-0.009249	-0.130620	-0.00006	-0.00017	-0.00001
	-0.007448	-0.013212	-0.130573	-0.00005	-0.00018	-0.00001
	-0.002756	-0.005082	-0.130718	-0.00008	-0.00017	0.00000
	-0.017634	-0.030694	-0.130246	0.00000	-0.00019	-0.00002
	-0.012942	-0.022565	-0.130391	-0.00002	-0.00018	-0.00002
169	0.018810	-0.012061	-0.143777	-0.00010	0.00059	0.00001

	0.028200	-0.018166	-0.143383	-0.00008	0.00060	0.00002
	-0.001505	0.001097	-0.144634	-0.00014	0.00055	0.00000
	0.007885	-0.005007	-0.144240	-0.00012	0.00057	0.00001
	0.003518	-0.002060	-0.144414	-0.00013	0.00056	0.00000
	0.012907	-0.008164	-0.144020	-0.00011	0.00058	0.00001
	-0.016797	0.011099	-0.145271	-0.00017	0.00053	-0.00001
	-0.007408	0.004994	-0.144877	-0.00015	0.00054	0.00000
	0.000387	-0.000440	-0.144576	-0.00014	0.00056	0.00000
	0.009777	-0.006544	-0.144182	-0.00012	0.00057	0.00001
	-0.019928	0.012719	-0.145433	-0.00017	0.00052	-0.00001
	-0.010538	0.006614	-0.145039	-0.00016	0.00054	-0.00001
	-0.014905	0.009562	-0.145213	-0.00016	0.00053	-0.00001
	-0.005516	0.003457	-0.144819	-0.00015	0.00055	0.00000
	-0.035221	0.022720	-0.146070	-0.00020	0.00050	-0.00002
	-0.025831	0.016616	-0.145676	-0.00019	0.00052	-0.00002
171	0.012399	0.004203	-0.576177	0.00167	0.00084	0.00001
	0.018593	0.006196	-0.576042	0.00167	0.00083	0.00002
	-0.001025	-0.000070	-0.576466	0.00166	0.00084	0.00000
	0.005169	0.001923	-0.576330	0.00167	0.00084	0.00001
	0.002323	0.000931	-0.576400	0.00167	0.00084	0.00000
	0.008517	0.002925	-0.576265	0.00167	0.00084	0.00001
	-0.011100	-0.003342	-0.576689	0.00166	0.00085	-0.00001
	-0.004907	-0.001348	-0.576553	0.00166	0.00084	-0.00001
	0.000239	-0.000104	-0.576471	0.00166	0.00084	0.00000
	0.006433	0.001890	-0.576335	0.00167	0.00084	0.00001
	-0.013185	-0.004377	-0.576759	0.00166	0.00085	-0.00002
	-0.006991	-0.002383	-0.576624	0.00166	0.00084	-0.00001
	-0.009837	-0.003375	-0.576694	0.00166	0.00085	-0.00001
	-0.003643	-0.001382	-0.576559	0.00166	0.00084	0.00000
	-0.023261	-0.007648	-0.576983	0.00166	0.00085	-0.00003
	-0.017067	-0.005655	-0.576847	0.00166	0.00085	-0.00002
172	0.035923	0.008236	-0.135686	0.00000	-0.00003	0.00001
	0.053836	0.012212	-0.136207	-0.00001	0.00000	0.00002
	-0.002751	-0.000305	-0.134575	0.00003	-0.00009	0.00000
	0.015162	0.003671	-0.135096	0.00002	-0.00006	0.00001
	0.006700	0.001714	-0.134825	0.00003	-0.00008	0.00000
	0.024613	0.005690	-0.135346	0.00001	-0.00005	0.00001
	-0.031974	-0.006827	-0.133714	0.00006	-0.00014	-0.00001
	-0.014061	-0.002851	-0.134235	0.00004	-0.00011	-0.00001
	0.000694	-0.000070	-0.134513	0.00003	-0.00009	0.00000
	0.018607	0.003906	-0.135034	0.00002	-0.00006	0.00001
	-0.037981	-0.008610	-0.133402	0.00006	-0.00015	-0.00002
	-0.020068	-0.004634	-0.133923	0.00005	-0.00012	-0.00001
	-0.028530	-0.006592	-0.133652	0.00006	-0.00014	-0.00001
	-0.010617	-0.002615	-0.134173	0.00004	-0.00011	0.00000
	-0.067204	-0.015132	-0.132541	0.00009	-0.00020	-0.00003
	-0.049291	-0.011156	-0.133062	0.00007	-0.00017	-0.00002
173	0.030871	0.003180	-0.142139	0.00003	0.00004	0.00001
	0.046268	0.004640	-0.146649	0.00003	0.00007	0.00002
	-0.002386	0.000055	-0.132396	0.00003	-0.00003	0.00000
	0.013011	0.001516	-0.136906	0.00003	0.00000	0.00001
	0.005760	0.000776	-0.134786	0.00003	-0.00002	0.00000
	0.021157	0.002237	-0.139296	0.00003	0.00002	0.00001
	-0.027497	-0.002348	-0.125042	0.00003	-0.00009	-0.00001
	-0.012100	-0.000887	-0.129552	0.00003	-0.00006	-0.00001
	0.000604	-0.000164	-0.133292	0.00003	-0.00003	0.00000
	0.016001	0.001297	-0.137802	0.00003	0.00001	0.00001
	-0.032653	-0.003288	-0.123548	0.00003	-0.00010	-0.00002
	-0.017256	-0.001827	-0.128058	0.00003	-0.00007	-0.00001
	-0.024507	-0.002567	-0.125938	0.00003	-0.00008	-0.00001
	-0.009110	-0.001106	-0.130448	0.00003	-0.00005	0.00000
	-0.057764	-0.005691	-0.116195	0.00003	-0.00016	-0.00003
	-0.042367	-0.004230	-0.120705	0.00003	-0.00012	-0.00002
174	0.018814	0.004229	-0.150877	-0.00064	0.00023	0.00001
	0.028204	0.006222	-0.150879	-0.00065	0.00025	0.00002
	-0.001500	-0.000041	-0.150873	-0.00063	0.00019	0.00000
	0.007889	0.001952	-0.150874	-0.00064	0.00021	0.00001
	0.003521	0.000957	-0.150875	-0.00063	0.00020	0.00000
	0.012910	0.002950	-0.150877	-0.00064	0.00022	0.00001
	-0.016794	-0.003313	-0.150870	-0.00062	0.00016	-0.00001
	-0.007404	-0.001320	-0.150872	-0.00063	0.00018	-0.00001
	0.000369	-0.000121	-0.150886	-0.00063	0.00020	0.00000
	0.009759	0.001872	-0.150888	-0.00064	0.00021	0.00001
	-0.019945	-0.004391	-0.150882	-0.00062	0.00016	-0.00001
	-0.010556	-0.002398	-0.150883	-0.00062	0.00018	-0.00001
	-0.014924	-0.003393	-0.150884	-0.00062	0.00017	-0.00001
	-0.005535	-0.001401	-0.150886	-0.00063	0.00018	0.00000
	-0.035239	-0.007663	-0.150879	-0.00060	0.00013	-0.00003
	-0.025849	-0.005670	-0.150881	-0.00061	0.00015	-0.00002
175	0.021537	0.004367	-0.098034	-0.00013	0.00025	0.00001
	0.032280	0.006426	-0.096950	-0.00014	0.00027	0.00002
	-0.001693	-0.000046	-0.100351	-0.00011	0.00021	0.00000
	0.009050	0.002013	-0.099267	-0.00012	0.00023	0.00001
	0.004030	0.000985	-0.099818	-0.00012	0.00022	0.00000
	0.014773	0.003044	-0.098734	-0.00012	0.00024	0.00001
	-0.019200	-0.003428	-0.102135	-0.00010	0.00018	-0.00001

	-0.008457	-0.001369	-0.101051	-0.00011	0.00020	-0.00001
	0.000416	-0.000123	-0.100463	-0.00011	0.00022	0.00000
	0.011159	0.001936	-0.099379	-0.00012	0.00023	0.00001
	-0.022814	-0.004537	-0.102781	-0.00010	0.00018	-0.00002
	-0.012071	-0.002477	-0.101697	-0.00011	0.00020	-0.00001
	-0.017091	-0.003505	-0.102247	-0.00010	0.00019	-0.00001
	-0.006348	-0.001446	-0.101163	-0.00011	0.00020	0.00000
	-0.040321	-0.007918	-0.104564	-0.00009	0.00015	-0.00003
	-0.029578	-0.005859	-0.103480	-0.00010	0.00017	-0.00002
176	0.022696	0.004368	-0.088665	-0.00011	0.00025	0.00001
	0.034020	0.006427	-0.087048	-0.00012	0.00027	0.00002
	-0.001785	-0.000045	-0.092124	-0.00010	0.00021	0.00000
	0.009538	0.002014	-0.090507	-0.00011	0.00023	0.00001
	0.004246	0.000986	-0.091324	-0.00010	0.00022	0.00000
	0.015569	0.003046	-0.089707	-0.00011	0.00024	0.00001
	-0.020236	-0.003427	-0.094784	-0.00009	0.00018	-0.00001
	-0.008913	-0.001368	-0.093167	-0.00010	0.00020	-0.00001
	0.000439	-0.000124	-0.092266	-0.00010	0.00022	0.00000
	0.011762	0.001935	-0.090648	-0.00011	0.00023	0.00001
	-0.024043	-0.004537	-0.095725	-0.00009	0.00018	-0.00002
	-0.012719	-0.002478	-0.094108	-0.00009	0.00020	-0.00001
	-0.018012	-0.003506	-0.094925	-0.00009	0.00019	-0.00001
	-0.006688	-0.001447	-0.093308	-0.00010	0.00020	0.00000
	-0.042493	-0.007919	-0.098385	-0.00007	0.00015	-0.00003
	-0.031170	-0.005860	-0.096768	-0.00008	0.00017	-0.00002
177	0.014105	0.000282	-0.163604	-0.00001	-0.00105	0.00001
	0.021147	0.000316	-0.163490	0.00000	-0.00104	0.00002
	-0.001147	0.000221	-0.163850	-0.00001	-0.00106	0.00000
	0.005894	0.000255	-0.163737	-0.00001	-0.00106	0.00001
	0.002646	0.000218	-0.163789	-0.00001	-0.00106	0.00000
	0.009688	0.000252	-0.163675	-0.00001	-0.00105	0.00001
	-0.012606	0.000158	-0.164035	-0.00001	-0.00108	-0.00001
	-0.005565	0.000191	-0.163921	-0.00001	-0.00107	-0.00001
	0.000268	-0.000186	-0.163822	-0.00001	-0.00106	0.00000
	0.007309	-0.000153	-0.163708	-0.00001	-0.00105	0.00001
	-0.014985	-0.000247	-0.164068	-0.00001	-0.00108	-0.00001
	-0.007943	-0.000214	-0.163955	-0.00001	-0.00107	-0.00001
	-0.011191	-0.000250	-0.164007	-0.00001	-0.00108	-0.00001
	-0.004150	-0.000217	-0.163893	-0.00001	-0.00107	0.00000
	-0.026443	-0.000311	-0.164253	-0.00001	-0.00109	-0.00003
	-0.019402	-0.000277	-0.164139	-0.00001	-0.00109	-0.00002
178	0.014096	0.004212	-0.679129	0.00008	0.00223	0.00001
	0.021137	0.006205	-0.679329	0.00009	0.00223	0.00002
	-0.001160	-0.000059	-0.678696	0.00008	0.00223	0.00000
	0.005882	0.001934	-0.678896	0.00008	0.00223	0.00001
	0.002640	0.000940	-0.678802	0.00008	0.00223	0.00000
	0.009681	0.002933	-0.679002	0.00008	0.00223	0.00001
	-0.012615	-0.003332	-0.678369	0.00007	0.00223	-0.00001
	-0.005574	-0.001338	-0.678569	0.00008	0.00223	-0.00001
	0.000276	-0.000110	-0.678709	0.00008	0.00223	0.00000
	0.007318	0.001884	-0.678910	0.00008	0.00223	0.00001
	-0.014979	-0.004381	-0.678277	0.00007	0.00223	-0.00002
	-0.007937	-0.002388	-0.678477	0.00007	0.00223	-0.00001
	-0.011179	-0.003382	-0.678382	0.00007	0.00223	-0.00001
	-0.004138	-0.001389	-0.678583	0.00008	0.00223	0.00000
	-0.026434	-0.007653	-0.677950	0.00007	0.00223	-0.00003
	-0.019393	-0.005660	-0.678150	0.00007	0.00223	-0.00002
179	0.041598	0.009578	-0.177313	0.00031	0.00005	0.00001
	0.062334	0.014221	-0.175469	0.00030	0.00005	0.00002
	-0.003157	-0.000398	-0.181283	0.00033	0.00006	0.00000
	0.017579	0.004245	-0.179440	0.00032	0.00006	0.00001
	0.007755	0.001965	-0.180327	0.00032	0.00006	0.00000
	0.028491	0.006608	-0.178484	0.00031	0.00006	0.00001
	-0.037000	-0.008011	-0.184298	0.00034	0.00006	-0.00001
	-0.016264	-0.003368	-0.182454	0.00033	0.00006	-0.00001
	0.000798	-0.000050	-0.181025	0.00033	0.00006	0.00000
	0.021534	0.004593	-0.179182	0.00032	0.00006	0.00001
	-0.043957	-0.010026	-0.184995	0.00034	0.00006	-0.00002
	-0.023220	-0.005383	-0.183152	0.00034	0.00006	-0.00001
	-0.033045	-0.007663	-0.184039	0.00034	0.00006	-0.00001
	-0.012308	-0.003020	-0.182196	0.00033	0.00006	0.00000
	-0.077800	-0.017639	-0.188010	0.00036	0.00006	-0.00003
	-0.057063	-0.012996	-0.186167	0.00035	0.00006	-0.00002
180	0.029530	-0.002521	-0.139303	-0.00008	-0.00002	0.00001
	0.044261	-0.003884	-0.136887	-0.00008	-0.00001	0.00002
	-0.002289	0.000435	-0.144522	-0.00008	-0.00006	0.00000
	0.012441	-0.000927	-0.142106	-0.00008	-0.00004	0.00001
	0.005509	-0.000303	-0.143243	-0.00008	-0.00005	0.00000
	0.020239	-0.001665	-0.140827	-0.00008	-0.00003	0.00001
	-0.026311	0.002654	-0.148462	-0.00008	-0.00008	-0.00001
	-0.011581	0.001291	-0.146046	-0.00008	-0.00006	-0.00001
	0.000584	-0.000245	-0.144061	-0.00008	-0.00005	0.00000
	0.015315	-0.001607	-0.141645	-0.00008	-0.00004	0.00001
	-0.031235	0.002712	-0.149281	-0.00008	-0.00009	-0.00002
	-0.016505	0.001349	-0.146865	-0.00008	-0.00007	-0.00001
	-0.023437	0.001974	-0.148001	-0.00008	-0.00008	-0.00001

	-0.008707	0.000611	-0.145585	-0.00008	-0.00006	0.00000
	-0.055257	0.004930	-0.153221	-0.00008	-0.00011	-0.00003
	-0.040527	0.003567	-0.150805	-0.00008	-0.00010	-0.00002
181	0.017165	0.009873	-0.127539	0.00016	-0.00008	0.00001
	0.025733	0.014673	-0.128221	0.00015	-0.00008	0.00002
	-0.001379	-0.000439	-0.126072	0.00017	-0.00009	0.00000
	0.007189	0.004361	-0.126754	0.00016	-0.00008	0.00001
	0.003216	0.002005	-0.126423	0.00017	-0.00008	0.00000
	0.011784	0.006804	-0.127105	0.00016	-0.00008	0.00001
	-0.015329	-0.008307	-0.124955	0.00018	-0.00009	-0.00001
	-0.006761	-0.003508	-0.125637	0.00018	-0.00009	-0.00001
	0.000331	-0.000021	-0.126146	0.00017	-0.00008	0.00000
	0.008898	0.004778	-0.126827	0.00016	-0.00008	0.00001
	-0.018214	-0.010333	-0.124678	0.00018	-0.00009	-0.00002
	-0.009646	-0.005534	-0.125360	0.00018	-0.00009	-0.00001
	-0.013619	-0.007890	-0.125029	0.00018	-0.00009	-0.00001
	-0.005051	-0.003091	-0.125711	0.00017	-0.00009	0.00000
	-0.032164	-0.018202	-0.123562	0.00020	-0.00009	-0.00003
	-0.023596	-0.013403	-0.124243	0.00019	-0.00009	-0.00002
183	0.027878	0.020607	-0.091969	-0.00003	-0.00001	0.00001
	0.041785	0.030746	-0.094569	-0.00003	0.00002	0.00002
	-0.002168	-0.001199	-0.086358	-0.00001	-0.00006	0.00000
	0.011739	0.008939	-0.088957	-0.00002	-0.00004	0.00001
	0.005205	0.004004	-0.087726	-0.00002	-0.00005	0.00000
	0.019112	0.014142	-0.090326	-0.00002	-0.00002	0.00001
	-0.024842	-0.017803	-0.082114	0.00000	-0.00010	-0.00001
	-0.010934	-0.007665	-0.084714	-0.00001	-0.00007	-0.00001
	0.000531	0.000174	-0.086826	-0.00002	-0.00005	0.00000
	0.014438	0.010312	-0.089426	-0.00002	-0.00003	0.00001
	-0.029516	-0.021633	-0.081215	0.00000	-0.00011	-0.00002
	-0.015608	-0.011495	-0.083814	-0.00001	-0.00008	-0.00001
	-0.022143	-0.016430	-0.082583	0.00000	-0.00009	-0.00001
	-0.008236	-0.006291	-0.085182	-0.00001	-0.00007	0.00000
	-0.052189	-0.038237	-0.076971	0.00001	-0.00014	-0.00003
	-0.038282	-0.028098	-0.079571	0.00000	-0.00012	-0.00002

B) SOLLECITAZIONI ASTE

Vengono riportati alle pagine seguenti i valori delle sollecitazioni delle aste (elementi del modello atti a definire i pilastri e il sistema di travi dei vari solai).

Si precisa che vengono raccolti alle pagine seguenti unicamente i risultati relativi alle combinazioni di carico 1, 4, 5, le quali rappresentano le combinazioni di carico di riferimento.

SOLLECITAZIONI ASTE

CASO DI CARICO : 1 SLU SENZA SISMA COMBINAZIONE

N. 4 CONDIZIONI ANALISI STATICA

1	Peso_proprio_____	+	1.30
2	Permanente_____	+	1.50
3	A:Var_____	+	1.50
4	Neve_(<1000m_slm)___	+	1.50

1) +1.30*c001 +1.50*c002 +1.50*c003 +1.50*c004

Unità di misura: Prog e frecce [cm];NORM,TYY,TZZ [daN]

MZZ,MYY,TORS [daNcm]

Asta	1	nod	1	2		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	0.0	6179.5	-0.2	20984.9	-81.2	-407150.0
312.	0.0	-773.0	-0.1	20110.3	-35.6	434586.1
625.	0.0	-8062.2	-0.1	21783.7	2.1	-933649.0
Asta	2	nod	2	3		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	0.0	8285.5	-0.1	23072.7	2.1	-926142.2
312.	0.0	1055.8	-0.1	27780.3	33.1	519268.6
625.	0.0	-6082.5	-0.1	36007.8	71.2	-245764.7
Asta	3	nod	1	4		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	0.0	3359.7	-0.7	-194562.9	-160.0	274086.9
180.	0.0	-857.1	-0.7	-194613.2	-31.1	504023.1
361.	0.0	-5690.7	-0.7	-203236.4	97.0	-72758.3
Asta	4	nod	1	5		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	0.0	1603.5	-0.7	178473.6	-160.0	305911.0
180.	0.0	-2740.1	-0.7	178021.3	-31.2	211414.1
361.	0.0	-7745.1	-0.7	185411.1	97.0	-724105.1
Asta	5	nod	5	6		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	0.0	4137.0	-1.3	16572.2	-88.2	-177241.1
108.	0.0	793.7	-1.3	15004.8	50.3	91224.5
215.	0.0	-2930.9	-1.3	13675.8	189.1	-20179.5
Asta	9	nod	11	10		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	0.0	6554.1	-0.4	-27936.1	-95.8	-375188.9
212.	0.0	807.4	-0.4	-21064.8	-2.0	350737.6
423.	0.0	-2141.0	-0.4	-15461.9	91.7	165812.7
Asta	13	nod	16	15		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	0.0	3885.5	-1.5	-12817.2	-106.9	-154402.2
67.	0.0	2655.1	-1.5	-11990.7	-3.1	63793.1
134.	0.0	1707.8	-1.5	-11238.9	100.6	208838.8
Asta	14	nod	17	3		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	0.0	7513.9	-0.6	81703.9	-107.3	-288692.1
214.	0.0	84.7	-0.6	84487.0	16.0	492113.0
429.	0.0	-5790.5	-0.6	92487.4	140.0	-140873.5
Asta	15	nod	18	3		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	0.0	3673.9	-1.1	-136614.2	-203.9	-268270.3
173.	0.0	226.9	-1.1	-136362.3	-8.2	77869.2
346.	0.0	-3805.8	-1.1	-141646.9	187.4	-223431.9
Asta	16	nod	18	19		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	0.0	3744.2	-3.8	64987.0	-125.7	-361769.5
40.	0.0	3044.8	-3.8	65382.5	25.6	-227018.9
79.	0.0	2392.4	-3.8	65920.9	177.0	-119142.2
Asta	28	nod	128	28		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ

0.	0.0	6952.1	-0.9	-372313.5	-169.5	-663576.2
195.	0.0	2028.4	-0.9	-355021.2	6.5	182826.2
389.	0.0	-1198.5	-0.9	-355871.3	182.6	238096.7
Asta	29	nod	30	128		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2701.5	-0.6	200987.1	-137.9	143263.8
248.	0.0	-1468.8	-0.6	210292.9	0.8	330985.0
496.	0.0	-7718.1	-0.6	236788.2	139.6	-762882.3
Asta	30	nod	31	30		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4154.1	-0.5	-60121.4	-135.4	-157003.8
250.	0.0	-176.8	-0.5	-48639.3	0.2	318245.5
500.	0.0	-3809.0	-0.5	-41194.3	135.8	-187566.4
Asta	31	nod	31	5		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	984.7	-0.9	-166231.5	-153.7	195206.5
132.	0.0	-1915.7	-0.9	-162450.7	-31.7	140386.0
265.	0.0	-5475.9	-0.9	-162572.5	90.0	-341873.1
Asta	32	nod	5	32		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4757.1	-0.2	39637.9	-53.1	-484333.3
112.	0.0	1429.0	-0.2	47172.0	-31.6	-136045.8
225.	0.0	-1888.4	-0.2	55526.0	-10.2	-162295.4
Asta	33	nod	32	33		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-1888.4	-0.7	163494.0	-10.2	51890.6
115.	0.0	-5556.3	-0.7	165953.5	70.0	-370192.2
230.	0.0	-9775.6	-0.7	171424.9	150.5	-1247524.2
Asta	34	nod	33	11		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	7099.8	-1.4	163339.0	-175.4	-1265024.0
109.	0.0	2921.2	-1.4	171386.4	-23.8	-717564.9
219.	0.0	-1026.9	-1.4	182251.9	127.7	-617262.3
Asta	35	nod	11	16		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	6112.2	-0.5	-53450.9	-101.2	-354083.3
205.	0.0	-163.9	-0.5	-31371.8	0.8	229514.2
409.	0.0	-5016.0	-0.5	-11062.3	102.7	-324047.5
Asta	36	nod	16	35		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4462.3	-1.0	-71302.7	-118.2	-306004.7
108.	0.0	2458.9	-1.0	-61505.2	-7.8	65377.5
217.	0.0	889.4	-1.0	-52701.5	102.5	243152.6
Asta	38	nod	37	38		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-1211.5	-0.2	15817.3	-1.7	1190500.6
171.	0.0	-6204.8	-0.2	27539.8	37.3	576138.8
342.	0.0	-12982.8	-0.2	40354.8	77.0	-1035890.1
Asta	39	nod	4	39		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2171.5	-0.2	-35168.3	-52.2	254133.6
112.	0.0	-1378.0	-0.2	-43831.1	-33.6	303364.3
225.	0.0	-5472.5	-0.2	-53255.8	-15.1	-76481.2
Asta	40	nod	39	40		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-5472.5	-0.9	-77650.6	-15.1	51535.9
115.	0.0	-10312.4	-0.9	-68415.7	91.2	-848938.4
230.	0.0	-15733.4	-0.9	-60422.5	197.8	-2343183.5
Asta	41	nod	40	37		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	16776.3	-0.3	-13885.7	-123.1	-2219407.5
246.	0.0	6288.9	-0.3	1948.2	-43.7	548731.2
491.	0.0	-867.6	-0.3	17938.6	32.3	1165546.3
Asta	42	nod	37	41		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	343.9	0.6	24951.7	33.9	2150.7
30.	0.0	-455.6	0.6	24260.6	17.0	552.9
60.	0.0	-1287.0	0.6	23599.7	0.0	-25521.7
Asta	43	nod	43	42		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4041.8	-0.7	5241.2	-155.4	-171705.7
187.	0.0	249.0	-0.7	-6229.1	-20.2	236069.3
375.	0.0	-3998.3	-0.7	-17995.4	114.4	-106554.4
Asta	44	nod	44	43		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3348.2	-0.6	-62557.9	-140.1	23534.5

248.	0.0	-66.3	-0.6	-62111.6	3.8	431388.4
496.	0.0	-4142.1	-0.6	-66742.3	148.0	-64467.0
Asta	45	nod	45	44		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4419.2	-0.5	133336.3	-134.7	-255140.5
250.	0.0	334.3	-0.5	122892.3	-0.2	320489.6
500.	0.0	-3191.4	-0.5	122648.2	134.2	-39998.8
Asta	46	nod	45	4		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	526.3	-0.9	251852.2	-153.5	265506.6
132.	0.0	-2232.5	-0.9	250558.8	-31.6	160425.1
265.	0.0	-5760.2	-0.9	255284.8	90.1	-360406.3
Asta	47	nod	4	46		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3887.4	-1.3	-39799.5	-88.5	-121300.8
108.	0.0	486.4	-1.3	-33784.9	50.6	117953.8
215.	0.0	-3382.6	-1.3	-28307.2	189.8	-33440.8
Asta	48	nod	47	48		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-6263.7	0.1	-5350.9	27.2	517135.8
333.	0.0	147.1	0.1	-6406.1	0.7	-422098.9
665.	0.0	6304.4	0.1	-8005.7	-25.5	594344.6
Asta	49	nod	48	49		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-3352.2	0.3	1847.4	45.0	349569.6
140.	0.0	15.1	0.3	1067.6	0.0	112078.9
280.	0.0	3386.6	0.3	304.4	-44.9	354004.5
Asta	50	nod	49	50		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-6485.5	0.1	14488.6	25.6	605001.2
333.	0.0	-103.9	0.1	13259.4	-0.7	-450212.0
665.	0.0	7162.2	0.1	13157.1	-27.3	632997.1
Asta	51	nod	51	52		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	10420.5	-0.2	137756.4	-67.0	-621733.5
220.	0.0	2887.8	-0.2	134045.8	-28.8	801763.1
440.	0.0	-3123.5	-0.2	139032.5	7.9	766322.2
Asta	52	nod	52	53		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-4198.1	-0.5	-13271.3	13.5	841173.3
103.	0.0	-7213.1	-0.5	-8838.2	70.1	255061.6
207.	0.0	-10721.4	-0.5	-4535.0	126.9	-667702.3
Asta	53	nod	53	54		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	6823.2	-0.9	-39369.7	-141.0	-761369.8
162.	0.0	593.8	-0.9	-33599.1	-2.5	-152663.8
323.	0.0	-6115.1	-0.9	-29023.2	136.0	-594969.3
Asta	54	nod	54	55		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	6876.8	-0.8	-14980.4	-133.5	-524937.1
162.	0.0	3.7	-0.8	-11201.1	0.0	31929.1
323.	0.0	-6833.2	-0.8	-7820.1	133.5	-521784.2
Asta	55	nod	55	56		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	6695.4	-0.8	36342.0	-133.9	-527837.0
162.	0.0	79.8	-0.8	40240.7	0.5	15575.1
323.	0.0	-6116.1	-0.8	45571.3	134.9	-479359.0
Asta	56	nod	56	49		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	7839.5	-0.8	121675.3	-131.4	-523001.2
162.	0.0	2259.8	-0.8	130032.0	-4.0	283560.7
323.	0.0	-2643.7	-0.8	143012.7	123.4	245113.7
Asta	57	nod	49	57		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3364.2	-0.7	-173045.2	-123.2	219339.6
173.	0.0	-1598.9	-0.7	-159956.8	6.0	372487.4
345.	0.0	-6823.6	-0.8	-153329.8	135.2	-348336.4
Asta	58	nod	57	58		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	6363.0	-0.7	-64663.0	-129.1	-319555.7
170.	0.0	840.7	-0.7	-62543.5	-12.6	297956.6
340.	0.0	-5125.9	-0.7	-62879.2	103.7	-58419.5
Asta	59	nod	60	59		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	6285.2	-0.7	63204.9	-129.2	-308013.1
170.	0.0	806.7	-0.7	60416.7	-12.3	300001.0

340.	0.0	-5120.0	-0.7	60000.2	104.3	-58693.9
Asta	60	nod	48	60		
PROGR.	NORM	TY	TZZ	TORS	MY	MZ
0.	0.0	3400.6	-0.7	165963.5	-123.3	213240.8
173.	0.0	-1541.0	-0.7	152679.8	5.9	374260.6
345.	0.0	-6727.2	-0.8	145563.6	135.2	-333460.7
Asta	61	nod	61	48		
PROGR.	NORM	TY	TZZ	TORS	MY	MZ
0.	0.0	7790.2	-0.8	-129236.0	-131.3	-512794.5
162.	0.0	2210.0	-0.8	-137252.8	-3.8	285615.1
323.	0.0	-2685.4	-0.8	-150150.3	123.6	239665.4
Asta	62	nod	62	61		
PROGR.	NORM	TY	TZZ	TORS	MY	MZ
0.	0.0	6623.4	-0.8	-66114.5	-133.8	-468014.0
162.	0.0	-60.8	-0.8	-68060.0	0.4	57175.7
323.	0.0	-6275.1	-0.8	-72427.1	134.7	-462361.6
Asta	63	nod	63	62		
PROGR.	NORM	TY	TZZ	TORS	MY	MZ
0.	0.0	7195.4	-0.8	-69367.3	-134.8	-407310.3
162.	0.0	-115.6	-0.8	-66551.7	-0.5	161327.9
323.	0.0	-7142.8	-0.8	-66102.8	133.9	-429439.9
Asta	64	nod	64	63		
PROGR.	NORM	TY	TZZ	TORS	MY	MZ
0.	0.0	9314.6	-0.8	-95759.3	-133.6	-863720.3
162.	0.0	1540.5	-0.8	-87113.7	0.6	12986.9
323.	0.0	-6041.3	-0.8	-81565.9	134.7	-354577.1
Asta	65	nod	65	64		
PROGR.	NORM	TY	TZZ	TORS	MY	MZ
0.	0.0	5915.2	-0.9	19541.7	-143.6	-365963.2
162.	0.0	-1115.6	-0.9	28196.6	-3.5	30600.3
323.	0.0	-8695.4	-0.9	37855.0	136.5	-756930.5
Asta	66	nod	66	65		
PROGR.	NORM	TY	TZZ	TORS	MY	MZ
0.	0.0	2858.1	-0.7	223830.5	-106.5	296127.5
162.	0.0	-2753.2	-0.7	220337.4	13.5	312618.1
323.	0.0	-9099.2	-0.7	224679.7	133.7	-634893.6
Asta	67	nod	67	68		
PROGR.	NORM	TY	TZZ	TORS	MY	MZ
0.	0.0	4416.3	-0.9	-43537.1	-145.9	261665.5
165.	0.0	-2390.7	-0.9	-34431.4	3.3	423353.2
330.	0.0	-8999.4	-0.9	-26600.4	152.5	-517566.8
Asta	68	nod	68	59		
PROGR.	NORM	TY	TZZ	TORS	MY	MZ
0.	0.0	7841.7	-0.8	2406.0	-139.8	-545707.2
165.	0.0	1412.7	-0.8	9780.6	-15.7	213865.4
330.	0.0	-4730.7	-0.8	17517.4	108.2	-63068.7
Asta	69	nod	59	58		
PROGR.	NORM	TY	TZZ	TORS	MY	MZ
0.	0.0	5292.3	-0.7	-7398.7	-96.2	-170316.2
140.	0.0	172.8	-0.7	-689.8	-0.2	211997.6
280.	0.0	-4959.7	-0.7	6000.6	95.7	-122491.6
Asta	70	nod	58	69		
PROGR.	NORM	TY	TZZ	TORS	MY	MZ
0.	0.0	5073.1	-0.7	-17068.4	-107.5	-22491.6
165.	0.0	-1150.3	-0.7	-9367.6	15.9	305706.5
330.	0.0	-7809.8	-0.8	-2013.6	139.5	-426682.5
Asta	71	nod	69	70		
PROGR.	NORM	TY	TZZ	TORS	MY	MZ
0.	0.0	9071.0	-0.9	30232.6	-152.9	-397918.4
165.	0.0	1935.4	-0.9	38118.8	-2.8	516661.3
330.	0.0	-5840.1	-0.9	47416.2	147.2	206528.8
Asta	72	nod	71	70		
PROGR.	NORM	TY	TZZ	TORS	MY	MZ
0.	0.0	9490.6	-0.9	140121.9	-153.1	-601046.5
170.	0.0	1813.5	-0.9	118314.6	-3.4	365957.6
340.	0.0	-6353.2	-0.9	101152.8	146.3	-11113.3
Asta	73	nod	50	71		
PROGR.	NORM	TY	TZZ	TORS	MY	MZ
0.	0.0	4241.4	-0.9	32631.0	-142.6	196578.1
173.	0.0	-2331.0	-0.9	7766.4	4.2	368133.7
345.	0.0	-9551.1	-0.9	-16784.3	151.2	-646356.3
Asta	74	nod	50	72		
PROGR.	NORM	TY	TZZ	TORS	MY	MZ
0.	0.0	8074.2	-2.0	-88946.3	-147.0	-679808.9
88.	0.0	4559.7	-2.0	-89006.3	23.8	-123295.7
175.	0.0	554.6	-2.0	-90005.5	194.7	103986.2

Asta	75	node	73	72		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	11559.5	-1.2	259552.3	-191.8	-747652.8
162.	0.0	2723.2	-1.2	226681.3	0.4	396102.4
323.	0.0	-5374.9	-1.2	201871.2	192.5	173844.9
Asta	76	node	74	73		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	10414.9	-1.2	55333.9	-192.3	-926304.2
162.	0.0	578.5	-1.2	17487.6	-0.3	-39551.6
323.	0.0	-8914.2	-1.2	-19736.4	191.7	-720399.5
Asta	77	node	75	74		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	9165.1	-1.2	-169916.8	-193.6	-907174.9
162.	0.0	-2.0	-1.2	-197526.2	-0.3	-155467.1
323.	0.0	-9749.0	-1.2	-232159.7	193.0	-939102.6
Asta	78	node	76	75		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3431.8	-1.2	-494047.0	-194.5	127412.8
162.	0.0	-3176.0	-1.2	-491905.6	-0.2	167235.8
323.	0.0	-11244.5	-1.2	-507256.7	194.1	-979639.8
Asta	79	node	77	76		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	11525.8	-1.0	-45218.2	-163.3	-387960.7
168.	0.0	2604.9	-1.0	-29628.1	9.5	762803.2
335.	0.0	-4264.1	-1.0	-15168.3	182.4	600990.2
Asta	80	node	78	77		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	9168.4	-1.0	198671.1	-155.8	-358678.6
155.	0.0	1175.3	-1.0	213631.1	0.5	452466.5
310.	0.0	-7661.5	-1.0	235585.8	156.8	-37509.4
Asta	81	node	17	78		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	6570.1	-0.8	13385.5	-112.2	-394136.6
157.	0.0	-14.0	-0.8	23803.1	14.3	131438.1
314.	0.0	-7380.3	-0.8	35021.0	141.0	-439531.1
Asta	82	node	38	17		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	11118.7	-1.0	-215487.2	-122.7	-1529361.2
110.	0.0	6216.4	-1.0	-203484.9	-7.9	-576864.9
220.	0.0	1666.4	-1.0	-194871.8	106.9	-147017.0
Asta	83	node	51	38		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4008.4	-0.9	537023.1	-125.2	-79838.3
145.	0.0	-1913.5	-0.9	531978.1	-0.8	77608.7
290.	0.0	-8276.9	-0.9	542234.7	123.5	-657180.4
Asta	84	node	66	51		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4439.2	-0.8	-278437.7	-103.8	-240682.5
135.	0.0	-262.6	-0.8	-279530.6	8.7	46162.9
270.	0.0	-5383.1	-0.8	-287593.9	121.2	-330497.9
Asta	85	node	42	66		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	1994.5	-0.7	-73175.4	-99.4	-31684.3
138.	0.0	-1662.5	-0.7	-67986.5	-0.8	-1391.8
275.	0.0	-5954.2	-0.7	-64556.1	97.7	-518440.8
Asta	86	node	79	42		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	7728.1	-0.4	-37327.5	-142.5	282267.7
285.	0.0	-839.7	-0.4	-21735.4	-19.3	1145432.8
570.	0.0	-7187.8	-0.4	-8459.3	101.1	10419.0
Asta	87	node	79	80		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4164.1	-1.3	241009.0	-223.9	155656.3
162.	0.0	-2909.7	-1.3	276312.9	-11.6	272000.6
323.	0.0	-11186.0	-1.3	321442.7	200.6	-851274.6
Asta	88	node	80	81		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	9511.9	-1.2	62091.6	-190.5	-802497.4
162.	0.0	253.1	-1.2	114181.3	1.4	-2497.5
323.	0.0	-9625.9	-1.2	170333.8	193.3	-753989.4
Asta	89	node	81	82		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	10496.9	-1.2	-33185.6	-194.4	-740207.9
162.	0.0	283.7	-1.2	25432.5	-0.4	134080.4
323.	0.0	-10057.9	-1.2	84955.0	193.6	-655271.1

Asta	90	nod	82	83		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	10184.6	-1.2	-113340.4	-193.2	-661283.3
162.	0.0	-142.4	-1.2	-54331.8	0.0	149331.5
323.	0.0	-10318.3	-1.2	2744.8	193.3	-699241.2
Asta	91	nod	83	84		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	9891.2	-1.2	-208137.3	-192.9	-725992.6
162.	0.0	40.1	-1.2	-154762.8	-0.5	71054.6
323.	0.0	-9259.6	-1.2	-106895.1	191.9	-683260.2
Asta	92	nod	84	85		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	11204.1	-1.2	-347482.2	-189.8	-732242.4
162.	0.0	2696.0	-1.2	-307855.6	-1.7	378818.3
323.	0.0	-4939.1	-1.2	-279176.6	186.4	187707.3
Asta	93	nod	85	47		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-254.4	-1.9	81556.8	-186.7	159492.5
88.	0.0	-3940.4	-1.9	79601.5	-20.5	-27999.6
175.	0.0	-7084.2	-1.9	78486.2	145.6	-514403.8
Asta	94	nod	47	86		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4288.9	-0.9	-72888.8	-142.2	113165.1
173.	0.0	-1384.5	-0.9	-47848.9	4.7	366257.3
345.	0.0	-7413.5	-0.9	-24742.0	151.7	-385831.3
Asta	95	nod	86	67		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	7415.7	-0.9	-179558.2	-153.4	-360472.4
170.	0.0	1034.6	-0.9	-160824.9	-4.0	363889.2
340.	0.0	-5872.7	-0.9	-148406.1	145.3	-37913.9
Asta	96	nod	60	57		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-3426.9	0.4	-530.7	54.5	204750.0
140.	0.0	-6.6	0.4	425.1	0.0	-36603.8
280.	0.0	3425.5	0.4	1387.5	-54.5	203457.0
Asta	97	nod	61	56		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-3912.5	0.4	3365.2	50.8	251865.6
140.	0.0	48.3	0.4	1559.7	0.0	-20071.0
280.	0.0	4009.2	0.4	-221.5	-50.8	265435.1
Asta	98	nod	62	55		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-4309.2	0.4	11689.5	50.2	214525.5
140.	0.0	122.1	0.4	10787.2	0.0	-78696.4
280.	0.0	4526.0	0.4	10053.4	-50.2	247532.3
Asta	99	nod	63	54		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-4674.3	0.4	38841.6	50.7	218965.9
140.	0.0	-10.2	0.4	38381.5	0.2	-106880.1
280.	0.0	4476.0	0.4	38520.7	-50.4	207787.4
Asta	100	nod	64	53		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-5745.4	0.4	67589.1	51.1	345962.2
140.	0.0	-1089.6	0.4	68747.4	-0.9	-125451.1
280.	0.0	2965.6	0.4	70979.1	-52.8	11946.0
Asta	101	nod	65	52		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-6610.3	0.1	-5476.0	35.2	548114.8
147.	0.0	-2357.2	0.1	-2867.2	14.7	-102274.2
294.	0.0	1074.7	0.1	-307.8	-5.6	-187944.6
Asta	104	nod	10	15		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	232.4	-0.8	54037.0	-107.4	87171.7
130.	0.0	-976.2	-0.8	65525.4	2.9	41348.5
260.	0.0	-2430.2	-0.8	78530.3	113.2	-177460.1
Asta	105	nod	67	87		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-10289.0	-1216.7	291.8	291.1	3445.0	113833.0
165.	-9645.5	-1216.7	291.8	291.1	-44706.2	-86915.7
330.	-9002.0	-1216.7	291.8	291.1	-92857.5	-287664.3
Asta	106	nod	68	88		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-16841.1	201.1	-71.8	292.2	-29006.4	-28140.4
165.	-16197.6	201.1	-71.8	292.2	-17158.9	5033.2
330.	-15554.1	201.1	-71.8	292.2	-5311.3	38206.7
Asta	107	nod	59	89		

PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-15143.0	396.0	-83.2	308.6	-33777.8	-47247.2
165.	-14499.5	396.0	-83.2	308.6	-20041.6	18095.3
330.	-13856.0	396.0	-83.2	308.6	-6305.4	83437.7
Asta	108	nod	58	90		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-15158.6	-343.1	-89.2	306.9	-35350.5	37120.9
165.	-14515.1	-343.1	-89.2	306.9	-20639.1	-19495.0
330.	-13871.6	-343.1	-89.2	306.9	-5927.7	-76110.9
Asta	109	nod	69	91		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-16880.9	-205.9	-68.9	292.4	-32246.2	28764.1
165.	-16237.4	-205.9	-68.9	292.4	-20883.9	-5215.3
330.	-15593.9	-205.9	-68.9	292.4	-9521.5	-39194.7
Asta	110	nod	70	92		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-12193.3	1175.5	647.3	293.5	34816.7	-105550.4
165.	-11549.8	1175.5	647.3	293.5	-71993.8	88402.6
330.	-10906.3	1175.5	647.3	293.5	-178804.3	282355.5
Asta	111	nod	71	93		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-19041.7	1720.2	-196.4	304.3	-43314.5	-148053.1
165.	-18398.2	1720.2	-196.4	304.3	-10901.4	135787.7
330.	-17754.7	1720.2	-196.4	304.3	21511.7	419628.6
Asta	112	nod	50	94		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-19477.8	1105.9	-820.8	316.9	-94474.7	-79442.7
165.	-18834.3	1105.9	-820.8	316.9	40961.8	103029.1
330.	-18190.8	1105.9	-820.8	316.9	176398.3	285501.0
Asta	113	nod	49	95		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-15880.1	-864.2	30.1	317.1	11589.9	65061.2
165.	-15236.6	-864.2	30.1	317.1	6624.7	-77527.0
330.	-14593.1	-864.2	30.1	317.1	1659.4	-220115.1
Asta	114	nod	57	96		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-16612.1	-1127.9	-132.6	318.8	-27393.3	114790.2
165.	-15968.6	-1127.9	-132.6	318.8	-5511.4	-71318.8
330.	-15325.1	-1127.9	-132.6	318.8	16370.5	-257427.9
Asta	115	nod	60	97		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-16439.3	1168.4	-121.1	318.8	-24916.8	-122391.2
165.	-15795.8	1168.4	-121.1	318.8	-4931.2	70399.4
330.	-15152.3	1168.4	-121.1	318.8	15054.5	263190.0
Asta	116	nod	48	98		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-15742.6	897.1	62.5	317.4	16571.6	-71338.8
165.	-15099.1	897.1	62.5	317.4	6254.6	76683.4
330.	-14455.6	897.1	62.5	317.4	-4062.3	224705.5
Asta	117	nod	47	99		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-17636.8	-1061.3	-334.1	315.0	-29328.0	70156.8
165.	-16993.3	-1061.3	-334.1	315.0	25791.0	-104959.1
330.	-16349.8	-1061.3	-334.1	315.0	80910.0	-280074.9
Asta	118	nod	86	100		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-14829.1	-1737.8	-98.6	305.2	-22757.6	149496.4
165.	-14185.6	-1737.8	-98.6	305.2	-6480.9	-137247.8
330.	-13542.1	-1737.8	-98.6	305.2	9795.8	-423992.0
Asta	119	nod	61	101		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-17977.8	1879.7	226.4	316.7	47067.7	-195056.7
165.	-17334.3	1879.7	226.4	316.7	9706.3	115088.6
330.	-16690.8	1879.7	226.4	316.7	-27655.0	425233.9
Asta	120	nod	56	102		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-17964.8	-1847.5	208.1	317.1	43420.7	189331.1
165.	-17321.3	-1847.5	208.1	317.1	9079.2	-115505.8
330.	-16677.8	-1847.5	208.1	317.1	-25262.3	-420342.7
Asta	121	nod	55	103		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-18054.6	-1922.8	84.2	317.6	16106.2	203370.2
165.	-17411.1	-1922.8	84.2	317.6	2216.7	-113899.9
330.	-16767.6	-1922.8	84.2	317.6	-11672.8	-431170.0
Asta	122	nod	62	104		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ

0.	-18075.4	1984.9	135.4	317.9	26884.6	-214513.7
165.	-17431.9	1984.9	135.4	317.9	4551.1	112986.9
330.	-16788.4	1984.9	135.4	317.9	-17782.4	440487.5
Asta	123	nod	54	105		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-17468.0	-1841.0	-231.8	319.8	-31511.5	193744.6
165.	-16824.5	-1841.0	-231.8	319.8	6739.2	-110014.1
330.	-16181.0	-1841.0	-231.8	319.8	44989.8	-413772.8
Asta	124	nod	63	106		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-17911.1	2066.2	40.9	320.2	13891.5	-231164.5
165.	-17267.6	2066.2	40.9	320.2	7143.9	109755.3
330.	-16624.1	2066.2	40.9	320.2	396.2	450675.1
Asta	125	nod	64	107		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-23755.4	1904.7	430.9	321.2	38705.9	-224053.6
165.	-23111.9	1904.7	430.9	321.2	-32395.6	90230.0
330.	-22468.4	1904.7	430.9	321.2	-103497.0	404513.7
Asta	126	nod	53	108		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-20510.2	-671.0	1858.8	320.7	164732.1	62928.9
165.	-19866.7	-671.0	1858.8	320.7	-141964.1	-47793.0
330.	-19223.2	-671.0	1858.8	320.7	-448660.3	-158514.8
Asta	127	nod	77	109		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-19187.3	966.2	618.4	320.1	15457.4	-151393.1
165.	-18543.8	966.2	618.4	320.1	-86578.4	8023.5
330.	-17900.3	966.2	618.4	320.1	-188614.2	167440.1
Asta	128	nod	78	110		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-16548.8	1326.5	-461.1	296.7	-80852.5	-163650.1
165.	-15905.3	1326.5	-461.1	296.7	-4771.6	55226.6
330.	-15261.8	1326.5	-461.1	296.7	71309.4	274103.4
Asta	129	nod	17	111		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-12417.7	3.3	-226.8	326.4	-60018.2	-16113.7
165.	-11774.2	3.3	-226.8	326.4	-22598.2	-15575.2
330.	-11130.7	3.3	-226.8	326.4	14821.8	-15036.8
Asta	130	nod	38	112		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-32378.4	259.9	1130.7	323.2	66300.2	-49885.3
165.	-31734.9	259.9	1130.7	323.2	-120272.9	-7001.8
330.	-31091.4	259.9	1130.7	323.2	-306846.1	35881.7
Asta	131	nod	51	174		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-19812.0	-636.5	-2233.9	313.4	-197514.7	82688.7
165.	-19168.5	-636.5	-2233.9	313.4	171079.8	-22325.7
330.	-18525.0	-636.5	-2233.9	313.4	539674.4	-127340.2
Asta	132	nod	66	115		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-13251.4	-357.3	-590.7	308.1	-72810.6	55015.7
165.	-12607.9	-357.3	-590.7	308.1	24653.7	-3943.2
330.	-11964.4	-357.3	-590.7	308.1	122118.1	-62902.1
Asta	133	nod	42	116		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-13180.5	842.1	-176.2	314.9	-40189.6	-71365.7
165.	-12537.0	842.1	-176.2	314.9	-11109.3	67582.3
330.	-11893.5	842.1	-176.2	314.9	17970.9	206530.2
Asta	134	nod	43	117		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-8183.9	-450.9	785.2	303.3	51656.9	59770.5
165.	-7540.4	-450.9	785.2	303.3	-77904.5	-14633.8
330.	-6896.9	-450.9	785.2	303.3	-207465.8	-89038.1
Asta	135	nod	40	118		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-32509.7	283.3	-1228.3	320.9	-123776.0	-46536.9
165.	-31866.2	283.3	-1228.3	320.9	78888.0	207.8
330.	-31222.7	283.3	-1228.3	320.9	281552.0	46952.5
Asta	136	nod	41	119		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1287.0	77.4	-71.4	0.0	-23569.7	-25549.5
165.	-643.5	77.4	-71.4	0.0	-11784.8	-12774.7
330.	0.0	77.4	-71.4	0.0	0.0	0.0
Asta	137	nod	4	120		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-17509.8	263.6	-338.2	327.8	-81088.8	-42222.5

165.	-16866.3	263.6	-338.2	327.8	-25284.1	1268.2
330.	-16222.8	263.6	-338.2	327.8	30520.6	44758.9
Asta	138	node	45	121		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4945.6	93.9	-873.2	288.2	-132139.1	3236.4
165.	-4302.1	93.9	-873.2	288.2	11938.2	18733.7
330.	-3658.6	93.9	-873.2	288.2	156015.5	34231.1
Asta	139	node	18	122		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-7418.1	50.5	-455.5	329.6	-69376.4	-4864.0
165.	-6774.6	50.5	-455.5	329.6	5784.4	3476.7
330.	-6131.1	50.5	-455.5	329.6	80945.2	11817.4
Asta	140	node	35	123		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-6105.0	378.7	381.2	325.3	60409.5	-62362.2
165.	-5461.5	378.7	381.2	325.3	-2487.4	128.1
330.	-4818.0	378.7	381.2	325.3	-65384.2	62618.4
Asta	141	node	15	124		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3969.4	526.6	-179.9	324.3	-36220.8	-83126.9
165.	-3325.9	526.6	-179.9	324.3	-6541.5	3760.5
330.	-2682.4	526.6	-179.9	324.3	23137.7	90647.8
Asta	142	node	16	125		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-13363.8	239.2	623.7	327.8	88515.0	-52051.1
165.	-12720.3	239.2	623.7	327.8	-14399.3	-12587.5
330.	-12076.8	239.2	623.7	327.8	-117313.6	26876.0
Asta	143	node	10	126		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-7920.5	1330.7	83.2	316.8	-6979.7	-163214.8
165.	-7277.0	1330.7	83.2	316.8	-20708.0	56345.7
330.	-6633.5	1330.7	83.2	316.8	-34436.3	275906.1
Asta	144	node	11	127		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-13693.2	-279.0	41.2	324.6	30236.7	142.6
165.	-13049.7	-279.0	41.2	324.6	23435.9	-45886.3
330.	-12406.2	-279.0	41.2	324.6	16635.2	-91915.2
Asta	145	node	128	129		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-14670.2	242.0	489.5	309.1	34148.3	16434.7
165.	-14026.7	242.0	489.5	309.1	-46615.2	56362.0
330.	-13383.2	242.0	489.5	309.1	-127378.6	96289.4
Asta	152	node	31	136		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-5138.8	-164.1	-913.8	289.1	-135062.9	9271.3
165.	-4495.3	-164.1	-913.8	289.1	15711.2	-17810.6
330.	-3851.8	-164.1	-913.8	289.1	166485.4	-44892.5
Asta	153	node	5	137		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-22115.1	-562.5	-63.1	328.3	-48403.3	69157.4
165.	-21471.6	-562.5	-63.1	328.3	-37990.1	-23656.5
330.	-20828.1	-562.5	-63.1	328.3	-27576.9	-116470.4
Asta	155	node	33	140		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-16875.4	-209.8	363.3	326.0	17499.8	8086.0
165.	-16231.9	-209.8	363.3	326.0	-42445.3	-26534.5
330.	-15588.4	-209.8	363.3	326.0	-102390.3	-61154.9
Asta	156	node	30	141		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-6510.4	104.2	-1577.8	273.7	-191838.3	-7923.9
165.	-5866.9	104.2	-1577.8	273.7	68497.6	9271.1
330.	-5223.4	104.2	-1577.8	273.7	328833.6	26466.0
Asta	157	node	44	142		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-6539.6	-192.3	-1434.5	274.4	-148497.1	21619.2
165.	-5896.1	-192.3	-1434.5	274.4	88192.0	-10106.2
330.	-5252.6	-192.3	-1434.5	274.4	324881.2	-41831.5
Asta	158	node	46	143		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3382.6	183.5	-122.4	189.8	-33450.1	-28296.2
165.	-2900.0	183.5	-122.4	189.8	-13262.0	1983.7
330.	-2417.3	183.5	-122.4	189.8	6926.0	32263.5
Asta	159	node	6	144		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2930.9	-82.7	-17.8	189.1	-20184.0	13669.2
165.	-2448.3	-82.7	-17.8	189.1	-17241.0	22.9

330.	-1965.7	-82.7	-17.8	189.1	-14298.0	-13623.3
Asta	160	nod	28	145		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-9351.3	1943.1	-139.0	342.8	-61.2	-225852.7
165.	-8677.4	1943.1	-139.0	342.8	22879.6	94760.3
330.	-8003.6	1943.1	-139.0	342.8	45820.4	415373.2
Asta	169	nod	19	154		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2705.0	254.7	-138.6	406.5	-31028.2	-41234.1
165.	-2031.1	254.7	-138.6	406.5	-8156.0	793.7
330.	-1357.2	254.7	-138.6	406.5	14716.2	42821.6
Asta	170	nod	2	155		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-16347.7	-13.3	-18.8	0.0	-6219.6	4396.7
165.	-15673.9	-13.3	-18.8	0.0	-3109.8	2198.3
330.	-15000.0	-13.3	-18.8	0.0	0.0	0.0
Asta	171	nod	3	156		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-15678.8	249.6	-310.0	398.7	-60149.9	-17374.5
165.	-15004.9	249.6	-310.0	398.7	-8997.8	23813.1
330.	-14331.1	249.6	-310.0	398.7	42154.2	65000.6
Asta	172	nod	1	157		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-11142.6	-35.4	17.3	401.2	10106.5	6411.7
165.	-10468.8	-35.4	17.3	401.2	7259.0	578.5
330.	-9794.9	-35.4	17.3	401.2	4411.5	-5254.8
Asta	173	nod	80	158		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-20697.9	-3523.8	-217.4	391.1	-48777.3	259351.1
165.	-20024.1	-3523.8	-217.4	391.1	-12902.3	-322075.1
330.	-19350.2	-3523.8	-217.4	391.1	22972.7	-903501.2
Asta	174	nod	81	159		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-20122.8	-3206.3	-62.2	387.7	-13781.6	203519.3
165.	-19448.9	-3206.3	-62.2	387.7	-3514.5	-325524.6
330.	-18775.0	-3206.3	-62.2	387.7	6752.6	-854568.5
Asta	175	nod	82	160		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-20242.4	-3209.2	28.5	386.8	6012.1	198295.5
165.	-19568.6	-3209.2	28.5	386.8	1313.3	-331219.7
330.	-18894.7	-3209.2	28.5	386.8	-3385.5	-860734.9
Asta	176	nod	83	161		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-20209.4	-3244.8	138.2	386.1	26751.4	210882.0
165.	-19535.6	-3244.8	138.2	386.1	3955.8	-324507.6
330.	-18861.7	-3244.8	138.2	386.1	-18839.8	-859897.3
Asta	177	nod	84	162		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-20463.7	-3272.6	222.8	381.8	48982.1	240587.1
165.	-19789.8	-3272.6	222.8	381.8	12214.5	-299394.1
330.	-19116.0	-3272.6	222.8	381.8	-24553.2	-839375.3
Asta	178	nod	85	163		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4684.7	548.0	853.8	373.1	106150.5	-119684.2
165.	-4010.9	548.0	853.8	373.1	-34726.2	-29262.1
330.	-3337.0	548.0	853.8	373.1	-175603.0	61159.9
Asta	179	nod	72	164		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4820.4	-439.0	741.2	387.3	83839.4	97885.0
165.	-4146.5	-439.0	741.2	387.3	-38462.7	25457.2
330.	-3472.6	-439.0	741.2	387.3	-160764.7	-46970.5
Asta	180	nod	73	165		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-20473.7	3421.7	111.4	383.5	27253.3	-279288.8
165.	-19799.8	3421.7	111.4	383.5	8877.4	285296.0
330.	-19126.0	3421.7	111.4	383.5	-9498.4	849880.7
Asta	181	nod	74	166		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-20163.8	3535.1	-64.9	385.3	-12798.4	-287493.7
165.	-19490.0	3535.1	-64.9	385.3	-2091.1	295796.3
330.	-18816.1	3535.1	-64.9	385.3	8616.2	879086.2
Asta	182	nod	75	167		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-20409.6	3678.4	-351.2	387.6	-72464.9	-337339.8
165.	-19735.7	3678.4	-351.2	387.6	-14521.3	269604.0
330.	-19061.8	3678.4	-351.2	387.6	43422.3	876547.8

Asta	183	nod	76	168		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-7695.9	753.9	-867.3	376.8	-130560.7	-107126.3
165.	-7022.0	753.9	-867.3	376.8	12541.9	17270.4
330.	-6348.1	753.9	-867.3	376.8	155644.4	141667.2
Asta	184	nod	79	169		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-11892.2	-1051.3	-923.6	366.5	-120806.3	41575.2
165.	-11218.3	-1051.3	-923.6	366.5	31590.3	-131882.0
330.	-10544.4	-1051.3	-923.6	366.5	183986.8	-305339.2
Asta	188	nod	123	183		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2.2	1718.7	-1.0	-19474.4	-145.5	-150533.9
90.	-2.2	1059.0	-1.0	-19474.4	-53.9	-25231.6
180.	-2.2	399.3	-1.0	-19474.4	37.8	40552.2
Asta	189	nod	124	123		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.5	544.8	-0.7	-3083.7	-61.0	-28492.1
85.	-0.5	200.0	-0.7	-3083.7	-1.3	3394.7
169.	-0.5	-197.7	-0.7	-3083.7	58.5	3867.7
Asta	190	nod	126	124		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.1	495.2	-0.5	-23302.0	-68.9	-41437.0
130.	-0.1	178.3	-0.5	-23302.0	-6.4	2337.8
260.	-0.1	-138.6	-0.5	-23302.0	56.1	4918.8
Asta	191	nod	145	126		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.5	691.3	-0.7	-2261.6	-165.6	-31449.5
203.	-0.5	-64.6	-0.7	-2261.6	-28.0	32113.1
405.	-0.5	-824.4	-0.7	-2261.6	109.6	-57892.1
Asta	192	nod	171	110		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.9	704.2	-0.1	42484.3	-19.7	155174.4
261.	-0.9	-899.4	-0.1	42484.3	18.3	129706.1
522.	-0.9	-2503.0	-0.1	42484.3	56.3	-314078.4
Asta	193	nod	172	144		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.4	0.0	-0.6	0.0	0.0	0.0
57.	-0.4	-140.1	-0.6	0.0	35.3	-4027.8
115.	-0.4	-280.3	-0.6	0.0	70.5	-16111.1
Asta	194	nod	117	118		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.4	2481.1	-0.6	32137.7	-102.3	-165722.1
147.	-1.4	587.4	-0.6	32137.7	-13.3	63931.5
294.	-1.4	-1670.8	-0.6	32137.7	75.7	-11114.5
Asta	195	nod	143	118		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.7	649.5	-0.6	-25238.6	-65.5	-50749.3
113.	-0.7	316.0	-0.6	-25238.6	2.4	3409.5
226.	-0.7	21.3	-0.6	-25238.6	70.3	22092.6
Asta	196	nod	143	173		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.0	280.3	-0.6	0.0	-69.7	-16111.1
57.	-1.0	140.1	-0.6	0.0	-34.9	-4027.8
115.	-1.0	0.0	-0.6	0.0	0.0	0.0
Asta	198	nod	176	175		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.5	0.0	0.3	0.0	0.0	0.0
40.	-1.5	-97.4	0.3	0.0	-12.7	-1945.1
80.	-1.5	-194.8	0.3	0.0	-25.5	-7780.5
Asta	199	nod	97	89		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.1	502.2	-0.4	-17476.5	-64.4	-36360.7
170.	0.1	87.8	-0.4	-17476.5	6.7	13787.7
340.	0.1	-326.6	-0.4	-17476.5	77.7	-6507.5
Asta	200	nod	98	97		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	2.3	439.6	-0.3	1469.8	-59.8	-27393.5
173.	2.3	19.1	-0.3	1469.8	-0.9	12166.8
345.	2.3	-401.4	-0.3	1469.8	58.0	-20803.7
Asta	201	nod	101	98		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	2.2	279.7	-0.4	-17976.7	-58.2	-3485.8
162.	2.2	-114.3	-0.4	-17976.7	-0.4	9876.4
323.	2.2	-508.4	-0.4	-17976.7	57.3	-40455.0

Asta	202	nod	104	101		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	3.7	329.2	-0.3	-858.8	-55.4	-10729.1
162.	3.7	-65.0	-0.3	-858.8	0.8	10628.8
323.	3.7	-459.1	-0.3	-858.8	57.0	-31746.3
Asta	203	nod	106	104		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-10.1	342.7	-0.5	-391.4	-79.7	-11938.3
162.	-10.1	-51.3	-0.5	-391.4	1.6	11613.9
323.	-10.1	-445.3	-0.5	-391.4	82.9	-28527.5
Asta	204	nod	107	106		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4.9	464.1	-0.4	5314.4	-65.2	-40273.9
162.	-4.9	70.1	-0.4	5314.4	0.7	2908.2
323.	-4.9	-323.9	-0.4	5314.4	66.5	-17603.4
Asta	205	nod	177	107		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-5.1	2121.8	-0.5	-14680.7	-88.9	-127429.7
162.	-5.1	192.2	-0.5	-14680.7	-5.8	59884.6
323.	-5.1	-1752.7	-0.5	-14680.7	77.2	-66089.2
Asta	206	nod	115	177		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.8	1914.8	-0.6	56697.5	-94.1	-97051.2
162.	-1.8	8.0	-0.6	56697.5	-3.2	58543.9
323.	-1.8	-1912.7	-0.6	56697.5	87.8	-95216.1
Asta	207	nod	178	171		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-6.0	1347.0	0.7	192276.1	36.5	229179.7
58.	-6.0	-152.0	0.7	192276.1	-6.1	261432.2
117.	-6.0	-1113.5	0.7	192276.1	-48.7	221899.9
Asta	208	nod	171	108		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-6.6	-1817.6	-0.5	42371.1	-29.1	297257.4
103.	-6.6	-4861.0	-0.5	42371.1	20.7	-47925.9
207.	-6.6	-7908.2	-0.5	42371.1	70.5	-707930.2
Asta	209	nod	108	105		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.6	989.8	-0.4	-24522.4	-60.9	-150979.9
162.	-0.6	595.8	-0.4	-24522.4	0.6	-22822.5
323.	-0.6	201.8	-0.4	-24522.4	62.1	41641.3
Asta	210	nod	105	103		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3.8	355.4	-0.5	-1753.4	-83.9	-12165.6
162.	-3.8	-38.7	-0.5	-1753.4	1.5	13433.4
323.	-3.8	-432.7	-0.5	-1753.4	86.9	-24661.3
Asta	211	nod	103	102		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.9	340.7	-0.3	369.4	-53.2	-12568.3
162.	0.9	-53.5	-0.3	369.4	0.4	10651.0
323.	0.9	-447.6	-0.3	369.4	53.9	-29862.8
Asta	212	nod	102	95		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.5	280.7	-0.4	17638.2	-65.7	-3875.0
162.	-0.5	-113.3	-0.4	17638.2	0.0	9651.8
323.	-0.5	-507.4	-0.4	17638.2	65.7	-40515.0
Asta	213	nod	95	96		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	1.1	441.4	-0.3	-1673.8	-60.7	-27452.5
173.	1.1	20.9	-0.3	-1673.8	-1.1	12417.9
345.	1.1	-399.6	-0.3	-1673.8	58.5	-20242.5
Asta	214	nod	96	90		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.2	506.0	-0.4	17250.8	-64.6	-36975.7
170.	0.2	91.7	-0.4	17250.8	7.8	13827.6
340.	0.2	-322.7	-0.4	17250.8	80.2	-5812.8
Asta	215	nod	177	178		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.2	4298.5	-0.3	-6464.5	-60.5	-778833.0
135.	-0.2	3969.5	-0.3	-6464.5	-19.9	-220742.4
270.	-0.2	3640.4	-0.3	-6464.5	20.8	292924.7
Asta	216	nod	174	178		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4.4	8128.1	-0.2	-100648.6	-47.8	-698064.6
162.	-4.4	2813.4	-0.2	-100648.6	-16.0	183484.6
323.	-4.4	-2293.4	-0.2	-100648.6	15.7	222715.2
Asta	217	nod	158	177		

PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-10.0	10921.6	-0.2	-9.8	-85.9	-950499.4
423.	-10.0	-527.1	-0.2	-9.8	-5.2	1246356.7
845.	-10.0	-12004.7	-0.2	-9.8	75.4	-1399973.1
Asta	218	nod	108	109		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-7.5	7639.3	-0.3	30148.4	-68.9	-568151.4
253.	-7.5	558.2	-0.3	30148.4	0.5	505833.1
505.	-7.5	-8373.7	-0.3	30148.4	70.0	-442006.0
Asta	219	nod	107	108		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-5.2	7966.1	-0.9	-86499.1	-118.9	-1195175.7
140.	-5.2	2619.7	-0.9	-86499.1	0.7	-454643.4
280.	-5.2	-2685.9	-0.9	-86499.1	120.4	-459748.0
Asta	220	nod	159	107		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-13.1	10549.9	-0.2	-9036.4	-82.2	-851791.9
420.	-13.1	-867.8	-0.2	-9036.4	-11.2	1181462.7
840.	-13.1	-12285.5	-0.2	-9036.4	59.9	-1580717.7
Asta	221	nod	160	106		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-14.8	10627.9	-0.2	293.5	-84.2	-862175.5
420.	-14.8	-789.8	-0.2	293.5	-11.0	1203836.0
840.	-14.8	-12207.5	-0.2	293.5	62.2	-1525587.5
Asta	222	nod	106	105		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-15.5	3750.0	-0.8	6354.8	-111.8	-1069206.5
140.	-15.5	-55.9	-0.8	6354.8	0.6	-810624.8
280.	-15.5	-3861.8	-0.8	6354.8	113.1	-1084869.1
Asta	223	nod	105	167		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-17.9	12165.5	-0.2	-2462.4	-60.8	-1521410.9
420.	-17.9	704.4	-0.2	-2462.4	10.5	1181619.2
840.	-17.9	-10766.5	-0.2	-2462.4	81.7	-931070.8
Asta	224	nod	103	166		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-13.7	12182.0	-0.2	209.2	-66.5	-1525856.3
420.	-13.7	764.3	-0.2	209.2	10.2	1192862.1
840.	-13.7	-10653.4	-0.2	209.2	87.0	-883854.5
Asta	225	nod	104	103		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-10.8	3799.5	-0.8	-211.0	-110.1	-1090772.7
140.	-10.8	-6.4	-0.8	-211.0	0.4	-825255.1
280.	-10.8	-3812.3	-0.8	-211.0	111.0	-1092563.5
Asta	226	nod	161	104		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-8.0	10621.0	-0.2	-226.9	-89.6	-862467.4
420.	-8.0	-796.7	-0.2	-226.9	-10.0	1200620.0
840.	-8.0	-12214.4	-0.2	-226.9	69.5	-1531727.6
Asta	227	nod	162	101		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-14.9	10682.7	-0.2	-896.4	-95.1	-902495.1
420.	-14.9	-735.0	-0.2	-896.4	-11.2	1186523.1
840.	-14.9	-12152.7	-0.2	-896.4	72.6	-1519893.5
Asta	228	nod	101	102		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-14.9	3799.3	-0.9	-291.0	-128.9	-1077541.8
140.	-14.9	-6.6	-0.9	-291.0	-0.6	-812056.8
280.	-14.9	-3812.5	-0.9	-291.0	127.7	-1079397.9
Asta	229	nod	102	165		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-17.6	12137.0	-0.2	434.6	-69.7	-1517009.4
420.	-17.6	719.3	-0.2	434.6	10.7	1182807.6
840.	-17.6	-10698.4	-0.2	434.6	91.1	-912810.3
Asta	230	nod	95	94		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-6.9	9680.6	-0.2	15241.6	-55.4	-909022.0
333.	-6.9	393.1	-0.2	15241.6	0.1	765729.9
665.	-6.9	-8894.5	-0.2	15241.6	55.6	-647630.2
Asta	231	nod	98	95		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.1	3857.4	-1.0	519.6	-134.4	-693323.8
140.	-1.1	-53.2	-1.0	519.6	0.4	-427032.9
280.	-1.1	-3963.7	-1.0	519.6	135.3	-708218.9
Asta	232	nod	99	98		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ

0.	-6.1	8924.8	-0.2	-8479.6	-68.9	-657327.6
333.	-6.1	-362.8	-0.2	-8479.6	-1.6	766100.7
665.	-6.1	-9650.3	-0.2	-8479.6	65.8	-898582.9
Asta	233	nod	100	97		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-7.1	8630.1	-0.2	55.1	-89.1	-448656.3
333.	-7.1	-848.5	-0.2	55.1	-9.0	845041.6
665.	-7.1	-10327.4	-0.2	55.1	71.1	-1012942.8
Asta	234	nod	97	96		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.6	3921.4	-0.9	-447.4	-125.3	-730806.5
140.	-0.6	-69.7	-0.9	-447.4	-0.1	-461189.7
280.	-0.6	-4060.7	-0.9	-447.4	125.2	-750319.8
Asta	235	nod	96	93		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-7.2	10358.8	-0.2	-810.1	-70.5	-1026672.3
333.	-7.2	879.9	-0.2	-810.1	9.6	841760.3
665.	-7.2	-8598.7	-0.2	-810.1	89.8	-441489.4
Asta	236	nod	169	116		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4.5	6424.4	-0.6	-23414.3	-184.4	-259988.5
285.	-4.5	-508.2	-0.6	-23414.3	-24.1	578745.8
570.	-4.5	-7257.0	-0.6	-23414.3	136.2	-532202.3
Asta	237	nod	169	158		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4.3	4120.0	-1.0	-45155.4	-182.0	-205119.7
162.	-4.3	-32.4	-1.0	-45155.4	-12.9	125267.4
323.	-4.3	-4184.7	-1.0	-45155.4	156.1	-215578.5
Asta	238	nod	158	159		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-6.8	4243.9	-0.9	1842.8	-149.1	-238561.0
162.	-6.8	90.2	-0.9	1842.8	1.8	111845.6
323.	-6.8	-4063.5	-0.9	1842.8	152.8	-209396.0
Asta	239	nod	159	160		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-6.1	4161.6	-0.9	-933.8	-152.7	-225185.0
162.	-6.1	9.2	-0.9	-933.8	0.5	111921.0
323.	-6.1	-4143.2	-0.9	-933.8	153.6	-222205.9
Asta	240	nod	160	161		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-5.4	4123.6	-0.9	506.7	-149.0	-218526.9
162.	-5.4	-28.8	-0.9	506.7	0.3	112437.8
323.	-5.4	-4181.2	-0.9	506.7	149.7	-227830.4
Asta	241	nod	161	162		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3.2	4059.6	-0.9	3076.8	-146.9	-209217.6
162.	-3.2	-94.1	-0.9	3076.8	2.3	111391.6
323.	-3.2	-4247.8	-0.9	3076.8	151.5	-239647.5
Asta	242	nod	162	163		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.3	4185.5	-0.9	66196.6	-135.2	-215990.7
162.	0.3	33.1	-0.9	66196.6	4.6	124980.1
323.	0.3	-4119.3	-0.9	66196.6	144.4	-205282.1
Asta	243	nod	163	99		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.3	-782.3	-2.2	29679.1	-228.7	127356.6
88.	0.3	-2956.0	-2.2	29679.1	-33.2	-36193.1
175.	0.3	-5129.7	-2.2	29679.1	162.3	-389943.1
Asta	244	nod	99	100		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3.2	2295.3	-0.5	-12690.4	-83.8	-119068.7
173.	-3.2	-65.8	-0.5	-12690.4	6.3	73223.4
345.	-3.2	-2426.9	-0.5	-12690.4	96.3	-141773.2
Asta	245	nod	100	87		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.1	2485.1	-0.8	14200.5	-119.8	-151321.5
170.	-1.1	158.0	-0.8	14200.5	9.1	73364.6
340.	-1.1	-2169.2	-0.8	14200.5	138.0	-97603.6
Asta	246	nod	120	143		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.3	2270.5	-0.5	-44.0	-46.3	-108544.4
108.	0.3	403.1	-0.5	-44.0	4.2	35393.2
215.	0.3	-1487.6	-0.5	-44.0	54.6	-22694.1
Asta	247	nod	121	120		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.0	3081.9	-0.9	-1971.8	-157.2	-148379.2

132.	-1.0	255.9	-0.9	-1971.8	-32.7	77520.6
265.	-1.0	-3005.6	-0.9	-1971.8	91.7	-99809.5
Asta	248	nod	121	142		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2.0	576.7	-0.5	-7640.9	-131.1	-36162.2
250.	-2.0	-32.7	-0.5	-7640.9	6.1	31828.6
500.	-2.0	-642.1	-0.5	-7640.9	143.3	-52521.4
Asta	249	nod	142	117		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.4	4610.5	-0.5	-1735.6	-131.1	-332681.9
248.	-1.4	-148.7	-0.5	-1735.6	-12.9	192671.3
496.	-1.4	-3555.7	-0.5	-1735.6	105.3	-294642.6
Asta	250	nod	117	116		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2.4	860.1	-0.5	14126.2	-95.7	-99284.0
187.	-2.4	234.4	-0.5	14126.2	-6.7	1547.8
375.	-2.4	-278.8	-0.5	14126.2	82.3	-4374.9
Asta	251	nod	116	115		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2.5	4357.7	-0.7	7923.1	-96.3	-311291.4
138.	-2.5	823.5	-0.7	7923.1	5.5	54987.6
275.	-2.5	-3584.2	-0.7	7923.1	107.2	-124828.7
Asta	252	nod	115	174		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.4	6465.5	-0.8	30719.4	-106.7	-244551.6
135.	-0.4	-615.9	-0.8	30719.4	-4.4	109752.1
270.	-0.4	-4093.9	-0.8	30719.4	97.8	-248701.8
Asta	253	nod	174	112		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2.2	5568.0	-0.5	-48552.9	-82.2	-268805.1
145.	-2.2	377.3	-0.5	-48552.9	-7.4	174893.8
290.	-2.2	-5828.0	-0.5	-48552.9	67.4	-208368.9
Asta	254	nod	112	111		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.2	383.5	-0.5	17496.6	-52.8	-53161.3
110.	-1.2	115.2	-0.5	17496.6	-3.1	-25707.8
220.	-1.2	-153.2	-0.5	17496.6	46.5	-27801.9
Asta	255	nod	179	140		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-5.9	1421.9	-0.3	95418.0	1.3	73636.2
115.	-5.9	-4140.2	-0.3	95418.0	34.5	-83527.3
230.	-5.9	-9609.3	-0.3	95418.0	67.6	-874846.1
Asta	256	nod	137	179		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3.3	8298.0	-0.3	-71488.6	-59.5	-996385.2
112.	-3.3	4859.9	-0.3	-71488.6	-29.1	-256293.5
225.	-3.3	1421.9	-0.3	-71488.6	1.3	97037.4
Asta	257	nod	157	137		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.6	4253.7	-0.9	-30254.1	-199.0	-406939.1
180.	0.6	-1256.9	-0.9	-30254.1	-32.5	-136774.1
361.	0.6	-6767.5	-0.9	-30254.1	134.0	-860195.4
Asta	258	nod	157	120		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.4	5541.2	-0.9	8008.9	-202.2	-407573.8
180.	0.4	30.6	-0.9	8008.9	-31.6	94745.5
361.	0.4	-5479.9	-0.9	8008.9	139.1	-396521.6
Asta	259	nod	120	180		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-5.2	5466.7	-0.2	-25905.2	-50.7	-439938.9
112.	-5.2	2028.6	-0.2	-25905.2	-32.8	-18349.4
225.	-5.2	-1409.4	-0.2	-25905.2	-15.0	16479.3
Asta	260	nod	180	118		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	2.7	-1409.4	-0.6	-17053.2	-15.0	-25531.0
115.	2.7	-6971.5	-0.6	-17053.2	50.9	-508224.5
230.	2.7	-12440.6	-0.6	-17053.2	116.8	-1625073.4
Asta	261	nod	118	112		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-5.2	17132.6	-0.1	-4976.2	-58.1	-1962112.9
417.	-5.2	68.5	-0.1	-4976.2	-1.7	1520003.0
833.	-5.2	-14083.3	-0.1	-4976.2	54.8	-1500581.7
Asta	262	nod	112	181		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4.7	10796.6	-1.2	-118735.6	-148.3	-1266932.7
68.	-4.7	7908.6	-1.2	-118735.6	-68.4	-628012.3

137.	-4.7	5122.9	-1.2	-118735.6	11.4	-183068.3
Asta	263	nod	181	111		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3.0	5122.9	-0.4	167802.0	11.4	-139479.9
79.	-3.0	2473.5	-0.4	167802.0	46.3	159687.1
157.	-3.0	-265.1	-0.4	167802.0	81.1	247073.8
Asta	264	nod	127	126		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-5.0	4424.4	-0.6	7541.2	-110.7	-295078.2
212.	-5.0	206.6	-0.6	7541.2	13.8	218039.4
423.	-5.0	-5313.9	-0.6	7541.2	138.3	-299533.3
Asta	271	nod	125	124		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2.3	84.2	-2.8	17725.5	-168.6	49706.5
67.	-2.3	-882.0	-2.8	17725.5	19.3	23744.7
134.	-2.3	-1999.1	-2.8	17725.5	207.2	-72219.5
Asta	272	nod	87	88		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3.3	6832.8	-0.9	4944.4	-153.1	-274900.6
165.	-3.3	-578.6	-0.9	4944.4	-0.7	241076.6
330.	-3.3	-7989.9	-0.9	4944.4	151.6	-465825.2
Asta	273	nod	88	89		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3.0	7564.2	-0.8	-366.9	-140.6	-427618.5
165.	-3.0	152.8	-0.8	-366.9	-10.9	209028.6
330.	-3.0	-7258.6	-0.8	-366.9	118.9	-377203.2
Asta	274	nod	89	90		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2.0	6270.8	-0.8	-164.7	-112.0	-311242.1
140.	-2.0	-17.6	-0.8	-164.7	1.4	126480.9
280.	-2.0	-6306.1	-0.8	-164.7	114.7	-316179.1
Asta	275	nod	90	91		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3.0	7242.8	-0.7	-279.6	-112.0	-375039.2
165.	-3.0	-168.6	-0.7	-279.6	9.6	208587.5
330.	-3.0	-7579.9	-0.7	-279.6	131.2	-430664.7
Asta	276	nod	91	92		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3.1	8013.9	-1.0	-9801.1	-161.2	-469859.4
165.	-3.1	602.5	-1.0	-9801.1	-0.7	240995.5
330.	-3.1	-6808.9	-1.0	-9801.1	159.8	-271028.5
Asta	277	nod	93	92		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2.3	4637.3	-0.7	-14099.1	-119.6	-280201.9
170.	-2.3	269.9	-0.7	-14099.1	7.0	136954.4
340.	-2.3	-4097.4	-0.7	-14099.1	133.7	-188418.5
Asta	278	nod	94	93		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3.4	4343.4	-0.5	11883.4	-78.7	-229440.2
173.	-3.4	-87.6	-0.5	11883.4	8.1	137623.1
345.	-3.4	-4518.7	-0.5	11883.4	94.9	-259677.3
Asta	279	nod	94	164		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.2	4952.9	-2.3	-37800.3	-182.6	-374012.6
88.	0.2	2779.1	-2.3	-37800.3	21.8	-35737.2
175.	0.2	605.4	-2.3	-37800.3	226.3	112337.8
Asta	280	nod	165	164		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.5	4226.7	-1.0	-65367.2	-164.9	-222600.9
162.	0.5	74.3	-1.0	-65367.2	-2.0	125033.5
323.	0.5	-4078.0	-1.0	-65367.2	161.0	-198565.1
Asta	281	nod	166	165		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.7	4106.5	-0.8	-2437.6	-125.5	-216417.8
162.	-0.7	-47.1	-0.8	-2437.6	0.9	111782.8
323.	-0.7	-4200.8	-0.8	-2437.6	127.4	-231664.7
Asta	282	nod	167	166		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2.0	4248.6	-1.1	2330.7	-170.3	-238702.5
162.	-2.0	96.2	-1.1	2330.7	1.2	112469.0
323.	-2.0	-4056.2	-1.1	2330.7	172.7	-207592.4
Asta	283	nod	168	167		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.3	4258.0	-0.9	56853.6	-147.0	-231897.8
162.	-0.3	105.6	-0.9	56853.6	-5.7	120796.3
323.	-0.3	-4046.7	-0.9	56853.6	135.7	-197742.6

Asta	284	nod	109	168		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-7.3	3318.8	-1.1	74542.1	-154.7	-290013.4
168.	-7.3	604.7	-1.1	74542.1	37.6	38375.9
335.	-7.3	-2090.1	-1.1	74542.1	229.8	-86321.4
Asta	285	nod	110	109		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-6.0	6225.3	-0.7	-13538.0	-128.6	-360400.2
155.	-6.0	555.7	-0.7	-13538.0	-16.6	179255.4
310.	-6.0	-6207.9	-0.7	-13538.0	95.4	-244658.5
Asta	286	nod	111	110		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2.2	5561.2	-0.6	28334.2	-70.2	-327586.4
157.	-2.2	309.0	-0.6	28334.2	20.8	154335.0
314.	-2.2	-6533.5	-0.6	28334.2	111.7	-313781.2
Asta	287	nod	111	156		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-9.0	5151.2	-0.7	-20868.3	-128.5	6238.8
214.	-9.0	-1403.1	-0.7	-20868.3	27.6	408134.2
429.	-9.0	-7957.4	-0.7	-20868.3	183.7	-595559.1
Asta	288	nod	122	156		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3.3	4197.8	-1.0	9514.2	-133.2	-144392.7
173.	-3.3	-1087.9	-1.0	9514.2	40.9	124536.6
346.	-3.3	-6373.7	-1.0	9514.2	214.9	-520706.2
Asta	289	nod	122	154		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.2	-678.3	-4.0	-5135.1	-118.3	22065.5
40.	-0.2	-775.2	-4.0	-5135.1	42.1	-6816.1
79.	-0.2	-872.1	-4.0	-5135.1	202.6	-39547.0
Asta	301	nod	129	145		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3.7	7723.9	-0.8	12479.1	-127.4	-487142.3
195.	-3.7	169.3	-0.8	12479.1	24.9	279496.8
389.	-3.7	-7312.3	-0.8	12479.1	177.2	-416528.1
Asta	302	nod	141	129		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.8	4587.7	-0.5	-12338.2	-128.4	-335677.3
248.	-1.8	-171.5	-0.5	-12338.2	-15.7	184013.7
496.	-1.8	-3578.5	-0.5	-12338.2	96.9	-308962.5
Asta	303	nod	136	141		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.1	583.0	-0.6	6155.9	-131.7	-38144.0
250.	-0.1	-26.4	-0.6	6155.9	6.8	31432.4
500.	-0.1	-635.7	-0.6	6155.9	145.3	-51332.0
Asta	304	nod	136	137		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.2	3268.8	-0.9	-6704.9	-157.4	-160336.7
132.	-1.2	357.3	-0.9	-6704.9	-32.4	86529.5
265.	-1.2	-3159.3	-0.9	-6704.9	92.5	-92387.1
Asta	305	nod	137	144		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.8	2603.3	-0.4	13936.9	-42.3	-131407.8
108.	-1.8	542.4	-0.4	13936.9	6.0	36748.5
215.	-1.8	-1412.9	-0.4	13936.9	54.3	-10995.4
Asta	306	nod	144	140		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.2	272.6	-0.5	-4688.5	-64.2	-15440.3
113.	0.2	-61.0	-0.5	-4688.5	-3.7	-3855.8
226.	0.2	-355.7	-0.5	-4688.5	56.9	-27747.0
Asta	307	nod	140	127		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2.9	5537.5	-1.3	-43510.5	-142.0	-766202.1
109.	-2.9	1989.9	-1.3	-43510.5	4.3	-350768.3
219.	-2.9	-1966.4	-1.3	-43510.5	150.7	-345754.5
Asta	308	nod	127	125		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4.0	6015.4	-0.3	60365.4	-63.3	-141464.3
205.	-4.0	-584.5	-0.3	60365.4	-5.1	426069.1
409.	-4.0	-7873.7	-0.3	60365.4	53.1	-427755.5
Asta	309	nod	125	123		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4.2	4118.9	-1.0	37191.8	-106.0	-327727.9
108.	-4.2	683.8	-1.0	37191.8	7.6	-65975.7
217.	-4.2	-2901.6	-1.0	37191.8	121.3	-184860.2

Asta	311	nodì	122	183		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2611.6	-0.3	2595.9	-78.1	-80425.8
55.	0.0	932.4	-0.3	2595.9	-61.0	16932.6
110.	0.0	-746.7	-0.3	2595.9	-44.0	22033.6
Asta	312	nodì	129	140		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.3	2080.7	-0.5	3301.8	-84.7	-175586.9
147.	-0.3	652.9	-0.5	3301.8	-12.7	16599.7
294.	-0.3	-86.0	-0.5	3301.8	59.4	49774.9
Asta	313	nodì	175	174		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	1.4	-194.8	-0.6	-383.5	-25.5	-7771.1
93.	1.4	-464.5	-0.6	-383.5	30.1	-38524.1
187.	1.4	-734.9	-0.6	-383.5	85.6	-94479.1
Asta	317	nodì	65	177		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-21624.7	2551.2	-218.6	312.6	-46181.7	-290159.2
165.	-20981.2	2551.2	-218.6	312.6	-10105.6	130787.2
330.	-20337.7	2551.2	-218.6	312.6	25970.5	551733.6
Asta	319	nodì	183	154		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.7	-347.4	-3.7	-6091.1	-6.2	22862.8
28.	-0.7	-416.3	-3.7	-6091.1	98.8	12072.9
57.	-0.7	-485.2	-3.7	-6091.1	203.9	-663.0
Asta	320	nodì	28	10		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	8152.8	-0.7	24813.2	-160.2	-369707.6
203.	0.0	1051.8	-0.7	38202.9	-20.9	548792.7
405.	0.0	-5547.1	-0.7	53705.8	117.7	91937.9
Asta	321	nodì	15	35		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3247.1	-1.2	-64794.2	-110.5	-168857.4
85.	0.0	146.8	-1.2	-55951.8	-7.5	-25043.4
169.	0.0	-2977.5	-1.2	-47662.0	95.4	-144689.0
Asta	322	nodì	35	19		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4017.0	-1.5	-152550.1	-127.4	-16164.1
118.	0.0	-444.3	-1.5	-142870.8	51.0	197090.5
237.	0.0	-5097.4	-1.5	-135943.1	229.5	-129062.1

SOLLECITAZIONI ASTE

CASO DI CARICO : 4 SLU con SISMAX PRINC COMBINAZIONE

N. 3 CONDIZIONI ANALISI STATICA

1	Peso_proprio	+	1.00
2	Permanente	+	1.00
3	A:Var	+	0.60

N. 2 CASI DI CARICO

2	SISMAX SLU	1.00
3	SISMAX SLU	0.30

1)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c002.001	+0.30*c003.001
2)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c002.001	+0.30*c003.002
3)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c002.001	+0.30*c003.003
4)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c002.001	+0.30*c003.004
5)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c002.002	+0.30*c003.001
6)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c002.002	+0.30*c003.002
7)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c002.002	+0.30*c003.003
8)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c002.002	+0.30*c003.004
9)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c002.003	+0.30*c003.001
10)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c002.003	+0.30*c003.002
11)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c002.003	+0.30*c003.003
12)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c002.003	+0.30*c003.004
13)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c002.004	+0.30*c003.001
14)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c002.004	+0.30*c003.002
15)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c002.004	+0.30*c003.003
16)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c002.004	+0.30*c003.004

Unità di misura: Prog e frecce [cm];NORM,TYT,TZZ [daN]

MZZ,MYT,TORS [daNcm]

Asta	1	nodì	1	2		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3350.9	0.5	4857.6	281.5	-306323.7
	0.0	3318.9	0.4	6091.5	215.5	-294623.9
	0.0	3311.9	0.4	6320.8	201.8	-292055.1
	0.0	3279.9	0.3	7554.7	135.7	-280355.3

	0.0	3568.8	1.4	-3567.8	730.1	-385948.9
	0.0	3536.8	1.3	-2334.0	664.0	-374249.1
	0.0	3529.7	1.2	-2104.6	650.3	-371680.4
	0.0	3497.7	1.1	-870.7	584.3	-359980.5
	0.0	2881.0	-1.3	23095.1	-684.4	-134538.2
	0.0	2848.9	-1.4	24329.0	-750.5	-122838.4
	0.0	2841.9	-1.5	24558.3	-764.2	-120269.6
	0.0	2809.9	-1.6	25792.2	-830.2	-108569.8
	0.0	3098.8	-0.4	14669.7	-235.9	-214163.4
	0.0	3066.8	-0.6	15903.5	-301.9	-202463.6
	0.0	3059.8	-0.6	16132.9	-315.6	-199894.9
	0.0	3027.7	-0.7	17366.8	-381.7	-188195.0
312.	0.0	-16.6	0.5	3850.5	123.7	198170.9
	0.0	-40.5	0.3	5204.0	94.7	200796.5
	0.0	-45.7	0.3	5455.2	88.6	201369.4
	0.0	-69.5	0.2	6808.7	59.6	203995.0
	0.0	145.5	1.2	-5391.9	320.6	180293.8
	0.0	121.7	1.1	-4038.4	291.6	182919.5
	0.0	116.4	1.1	-3787.2	285.6	183492.3
	0.0	92.6	0.9	-2433.7	256.6	186118.0
	0.0	-366.4	-1.1	23856.3	-300.5	236747.5
	0.0	-390.3	-1.2	25209.9	-329.5	239373.1
	0.0	-395.5	-1.2	25461.0	-335.6	239946.0
	0.0	-419.3	-1.3	26814.5	-364.6	242571.6
	0.0	-204.3	-0.4	14613.9	-103.6	218870.5
	0.0	-228.1	-0.5	15967.4	-132.6	221496.1
	0.0	-233.4	-0.5	16218.6	-138.6	222069.0
	0.0	-257.2	-0.6	17572.1	-167.6	224694.6
625.	0.0	-2906.8	0.4	3331.3	-7.3	-266670.5
	0.0	-2927.1	0.3	4976.0	-5.5	-270606.9
	0.0	-2931.6	0.3	5280.8	-5.2	-271476.8
	0.0	-2952.0	0.2	6925.5	-3.5	-275413.2
	0.0	-2768.1	1.0	-7899.1	-19.0	-239896.8
	0.0	-2788.5	0.9	-6254.5	-17.3	-243833.2
	0.0	-2793.0	0.9	-5949.7	-17.0	-244703.1
	0.0	-2813.3	0.8	-4305.0	-15.2	-248639.5
	0.0	-3205.8	-1.0	27640.4	17.9	-324412.4
	0.0	-3226.2	-1.1	29285.0	19.6	-328348.8
	0.0	-3230.6	-1.1	29589.8	19.9	-329218.7
	0.0	-3251.0	-1.2	31234.5	21.6	-333155.1
	0.0	-3067.2	-0.3	16409.9	6.1	-297638.7
	0.0	-3087.5	-0.4	18054.6	7.8	-301575.1
	0.0	-3092.0	-0.4	18359.4	8.2	-302445.0
	0.0	-3112.4	-0.5	20004.0	9.9	-306381.4
Asta	2	nod1	2	3		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3130.0	0.3	17993.7	-7.3	-297722.3
	0.0	3109.6	0.2	16834.9	-5.5	-294725.1
	0.0	3105.1	0.2	16637.3	-5.2	-294076.0
	0.0	3084.8	0.2	15478.4	-3.5	-291078.8
	0.0	3268.6	0.8	25920.2	-19.0	-318130.8
	0.0	3248.2	0.8	24761.4	-17.3	-315133.6
	0.0	3243.8	0.7	24563.8	-17.0	-314484.5
	0.0	3223.4	0.7	23405.0	-15.2	-311487.2
	0.0	2830.9	-0.8	807.6	17.9	-253670.2
	0.0	2810.6	-0.9	-351.2	19.6	-250673.0
	0.0	2806.1	-0.9	-548.8	19.9	-250023.9
	0.0	2785.7	-1.0	-1707.6	21.6	-247026.7
	0.0	2969.6	-0.3	8734.1	6.1	-274078.7
	0.0	2949.2	-0.3	7575.3	7.8	-271081.5
	0.0	2944.7	-0.4	7377.7	8.2	-270432.4
	0.0	2924.3	-0.4	6218.9	9.9	-267435.1
312.	0.0	406.3	0.4	18917.0	-114.9	253739.3
	0.0	380.4	0.3	18082.2	-87.9	249741.5
	0.0	374.8	0.3	17945.4	-82.3	248865.3
	0.0	349.0	0.2	17110.6	-55.4	244867.5
	0.0	582.3	1.0	24631.9	-297.6	280929.5
	0.0	556.4	0.9	23797.1	-270.6	276931.7
	0.0	550.8	0.9	23660.4	-265.0	276055.6
	0.0	525.0	0.8	22825.6	-238.1	272057.7
	0.0	26.5	-0.9	6515.8	278.9	195101.5
	0.0	0.7	-1.0	5681.0	305.8	191103.6
	0.0	-4.9	-1.0	5544.2	311.4	190227.5
	0.0	-30.8	-1.1	4709.4	338.4	186229.7
	0.0	202.5	-0.3	12230.8	96.2	222291.7
	0.0	176.7	-0.4	11396.0	123.1	218293.8
	0.0	171.1	-0.4	11259.2	128.8	217417.7
	0.0	145.2	-0.5	10424.4	155.7	213419.9
625.	0.0	-2670.9	0.5	22237.2	-247.5	-76797.6
	0.0	-2697.2	0.3	21620.6	-189.5	-89693.4
	0.0	-2702.7	0.3	21527.3	-177.4	-92470.6
	0.0	-2728.9	0.2	20910.7	-119.4	-105366.3
	0.0	-2491.9	1.2	26464.8	-641.0	10982.6
	0.0	-2518.2	1.1	25848.2	-583.0	-1913.1
	0.0	-2523.7	1.0	25754.9	-570.8	-4690.3
	0.0	-2549.9	0.9	25138.3	-512.8	-17586.1
	0.0	-3057.6	-1.1	13049.7	600.7	-266239.9
	0.0	-3083.9	-1.2	12433.1	658.7	-279135.7
	0.0	-3089.4	-1.2	12339.8	670.9	-281912.9
	0.0	-3115.6	-1.3	11723.2	728.9	-294808.6

	0.0	-2878.6	-0.4	17277.2	207.3	-178459.7
	0.0	-2904.9	-0.5	16660.7	265.3	-191355.5
	0.0	-2910.4	-0.5	16567.4	277.4	-194132.6
	0.0	-2936.6	-0.6	15950.8	335.4	-207028.4
Asta	3	nod1	1	4		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	1249.1	2.5	-119988.0	555.4	219487.6
	0.0	1297.3	1.9	-118736.1	425.1	213715.8
	0.0	1306.5	1.8	-118451.2	398.1	212629.2
	0.0	1354.7	1.2	-117199.2	267.8	206857.5
	0.0	920.6	6.5	-128521.6	1440.1	258843.9
	0.0	968.8	5.9	-127269.6	1309.9	253072.2
	0.0	978.0	5.8	-126984.7	1282.8	251985.5
	0.0	1026.2	5.2	-125732.8	1152.5	246213.8
	0.0	1959.0	-6.1	-101551.4	-1350.1	134419.1
	0.0	2007.2	-6.6	-100299.4	-1480.3	128647.4
	0.0	2016.4	-6.8	-100014.5	-1507.4	127560.8
	0.0	2064.6	-7.3	-98762.6	-1637.7	121789.0
	0.0	1630.5	-2.1	-110084.9	-465.3	173775.5
	0.0	1678.7	-2.7	-108833.0	-595.6	168003.7
	0.0	1687.9	-2.8	-108548.1	-622.6	166917.1
	0.0	1736.1	-3.4	-107296.1	-752.9	161145.4
180.	0.0	-943.7	2.5	-120048.3	107.9	249971.8
	0.0	-897.0	1.9	-118582.9	82.6	252708.1
	0.0	-888.1	1.8	-118251.0	77.3	253243.4
	0.0	-841.4	1.2	-116785.6	52.0	255979.7
	0.0	-1262.1	6.4	-130035.0	279.7	231330.1
	0.0	-1215.4	5.8	-128569.7	254.4	234066.4
	0.0	-1206.5	5.7	-128237.7	249.2	234601.6
	0.0	-1159.8	5.1	-126772.4	223.8	237338.0
	0.0	-255.7	-6.0	-98475.6	-262.3	290248.9
	0.0	-209.0	-6.6	-97010.2	-287.6	292985.2
	0.0	-200.1	-6.7	-96678.3	-292.8	293520.4
	0.0	-153.4	-7.3	-95212.9	-318.2	296256.8
	0.0	-574.0	-2.1	-108462.4	-90.4	271607.2
	0.0	-527.3	-2.6	-106997.0	-115.7	274343.5
	0.0	-518.5	-2.8	-106665.1	-121.0	274878.7
	0.0	-471.8	-3.3	-105199.7	-146.3	277615.0
361.	0.0	-3506.6	2.5	-125396.7	-337.1	-143821.4
	0.0	-3459.4	1.9	-123653.4	-258.1	-132594.5
	0.0	-3450.4	1.8	-123259.8	-241.7	-130445.5
	0.0	-3403.2	1.2	-121516.4	-162.6	-119218.7
	0.0	-3828.6	6.4	-137276.7	-874.1	-220337.1
	0.0	-3781.4	5.8	-135533.3	-795.1	-209110.3
	0.0	-3772.4	5.7	-135139.7	-778.7	-206961.3
	0.0	-3725.2	5.1	-133396.3	-699.6	-195734.4
	0.0	-2810.8	-6.0	-99737.8	819.4	21533.3
	0.0	-2763.5	-6.6	-97994.4	898.5	32760.2
	0.0	-2754.6	-6.7	-97600.9	914.9	34909.1
	0.0	-2707.3	-7.3	-95857.5	993.9	46136.0
	0.0	-3132.8	-2.1	-111617.7	282.4	-54982.4
	0.0	-3085.5	-2.6	-109874.3	361.5	-43755.6
	0.0	-3076.5	-2.8	-109480.8	377.9	-41606.6
	0.0	-3029.3	-3.3	-107737.4	456.9	-30379.8
Asta	4	nod1	1	5		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	780.3	2.5	119193.7	555.2	175802.1
	0.0	748.5	1.9	116527.9	425.0	182337.1
	0.0	742.9	1.8	115951.0	397.9	183574.2
	0.0	711.1	1.2	113285.1	267.7	190109.2
	0.0	997.4	6.5	137319.1	1439.7	131261.7
	0.0	965.6	5.9	134653.2	1309.5	137796.7
	0.0	960.0	5.7	134076.3	1282.5	139033.8
	0.0	928.2	5.2	131410.5	1152.2	145568.8
	0.0	310.7	-6.0	80118.5	-1349.7	272058.6
	0.0	278.9	-6.6	77452.7	-1479.9	278593.7
	0.0	273.3	-6.8	76875.8	-1507.0	279830.7
	0.0	241.5	-7.3	74209.9	-1637.2	286365.8
	0.0	527.8	-2.1	98243.9	-465.2	227518.3
	0.0	495.9	-2.7	95578.1	-595.4	234053.3
	0.0	490.4	-2.8	95001.2	-622.5	235290.4
	0.0	458.5	-3.4	92335.3	-752.7	241825.4
180.	0.0	-1469.9	2.5	119154.5	108.0	118056.0
	0.0	-1504.6	1.9	116245.5	82.7	118627.6
	0.0	-1510.8	1.8	115615.4	77.4	118809.3
	0.0	-1545.5	1.2	112706.5	52.1	119380.9
	0.0	-1233.1	6.4	138934.0	280.1	114206.0
	0.0	-1267.8	5.8	136025.0	254.8	114777.6
	0.0	-1274.0	5.7	135394.9	249.5	114959.4
	0.0	-1308.7	5.1	132486.0	224.1	115530.9
	0.0	-1982.1	-6.0	76511.2	-262.6	126291.3
	0.0	-2016.8	-6.6	73602.2	-287.9	126862.9
	0.0	-2023.0	-6.7	72972.1	-293.2	127044.6
	0.0	-2057.7	-7.3	70063.2	-318.6	127616.2
	0.0	-1745.3	-2.1	96290.7	-90.5	122441.4
	0.0	-1780.0	-2.6	93381.7	-115.9	123012.9
	0.0	-1786.2	-2.8	92751.6	-121.1	123194.7
	0.0	-1820.9	-3.3	89842.7	-146.5	123766.2
361.	0.0	-4090.2	2.5	124364.1	-336.6	-377657.3

	0.0	-4131.3	1.9	121083.9	-257.7	-383872.2
	0.0	-4138.9	1.8	120372.8	-241.3	-384924.5
	0.0	-4179.9	1.2	117092.7	-162.3	-391139.4
	0.0	-3810.2	6.4	146669.0	-873.0	-335210.1
	0.0	-3851.2	5.8	143388.8	-794.0	-341425.1
	0.0	-3858.8	5.7	142677.8	-777.7	-342477.3
	0.0	-3899.8	5.1	139397.6	-698.7	-348692.2
	0.0	-4695.8	-6.0	76274.2	818.4	-469546.3
	0.0	-4736.9	-6.6	72994.0	897.4	-475761.3
	0.0	-4744.4	-6.7	72282.9	913.7	-476813.5
	0.0	-4785.5	-7.3	69002.8	992.7	-483028.4
	0.0	-4415.7	-2.1	98579.1	282.0	-427099.2
	0.0	-4456.8	-2.6	95298.9	361.0	-433314.1
	0.0	-4464.4	-2.8	94587.8	377.3	-434366.3
	0.0	-4505.4	-3.3	91307.7	456.3	-440581.3
Asta	5	nod	5	6		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	1840.1	4.5	-11675.5	306.6	18422.8
	0.0	1820.5	3.4	-7660.8	234.6	15762.0
	0.0	1816.8	3.2	-6890.2	219.8	15061.0
	0.0	1797.2	2.2	-2875.5	147.9	12400.2
	0.0	1973.7	11.6	-39049.2	795.1	36457.5
	0.0	1954.1	10.6	-35034.4	723.1	33796.6
	0.0	1950.4	10.3	-34263.8	708.3	33095.7
	0.0	1930.8	9.3	-30249.1	636.3	30434.8
	0.0	1551.2	-10.9	47485.7	-745.3	-20338.6
	0.0	1531.6	-11.9	51500.5	-817.2	-22999.4
	0.0	1527.9	-12.2	52271.1	-832.1	-23700.4
	0.0	1508.3	-13.2	56285.8	-904.0	-26361.2
	0.0	1684.8	-3.8	20112.1	-256.8	-2303.9
	0.0	1665.2	-4.8	24126.8	-328.7	-4964.7
	0.0	1661.5	-5.0	24897.5	-343.6	-5665.7
	0.0	1641.9	-6.1	28912.2	-415.5	-8326.6
108.	0.0	40.2	4.5	-12787.9	-174.8	122069.9
	0.0	23.9	3.4	-8746.6	-133.8	117341.6
	0.0	21.0	3.2	-7972.7	-125.3	116254.5
	0.0	4.7	2.2	-3931.5	-84.3	111526.2
	0.0	151.5	11.6	-40343.3	-453.2	154205.8
	0.0	135.2	10.6	-36302.1	-412.2	149477.5
	0.0	132.3	10.3	-35528.2	-403.7	148390.4
	0.0	116.0	9.3	-31487.0	-362.7	143662.1
	0.0	-200.5	-10.9	46768.7	424.9	52823.6
	0.0	-216.8	-11.9	50809.9	465.9	48095.3
	0.0	-219.7	-12.2	51583.8	474.4	47008.2
	0.0	-236.1	-13.2	55625.0	515.4	42279.9
	0.0	-89.2	-3.8	19213.2	146.4	84959.5
	0.0	-105.5	-4.8	23254.4	187.4	80231.2
	0.0	-108.5	-5.0	24028.3	195.9	79144.1
	0.0	-124.8	-6.1	28069.5	236.9	74415.8
215.	0.0	-2061.4	4.5	-14103.4	-656.7	16261.7
	0.0	-2058.3	3.4	-9971.4	-502.6	10668.3
	0.0	-2057.0	3.2	-9182.0	-470.7	9457.5
	0.0	-2054.0	2.2	-5050.0	-316.6	3864.1
	0.0	-2081.7	11.6	-42278.4	-1702.9	54320.6
	0.0	-2078.6	10.6	-38146.5	-1548.8	48727.2
	0.0	-2077.3	10.4	-37357.1	-1516.9	47516.4
	0.0	-2074.3	9.3	-33225.1	-1362.8	41923.0
	0.0	-2018.3	-10.9	46794.7	1596.2	-65833.6
	0.0	-2015.2	-12.0	50926.6	1750.3	-71427.0
	0.0	-2013.9	-12.2	51716.1	1782.2	-72637.8
	0.0	-2010.9	-13.2	55848.0	1936.3	-78231.2
	0.0	-2038.6	-3.8	18619.6	550.0	-27774.7
	0.0	-2035.5	-4.8	22751.5	704.1	-33368.1
	0.0	-2034.2	-5.0	23541.0	736.0	-34578.9
	0.0	-2031.2	-6.1	27672.9	890.1	-40172.3
Asta	9	nod	11	10		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3528.0	1.6	3873.5	334.6	-226146.1
	0.0	3493.9	1.2	1983.8	256.1	-220488.4
	0.0	3487.2	1.1	1637.7	240.1	-219391.5
	0.0	3453.1	0.8	-252.0	161.7	-213733.8
	0.0	3760.1	4.0	16780.9	867.5	-264718.9
	0.0	3726.1	3.7	14891.3	789.0	-259061.2
	0.0	3719.3	3.6	14545.2	773.1	-257964.4
	0.0	3685.3	3.2	12655.5	694.6	-252306.7
	0.0	3026.4	-3.8	-24069.7	-812.9	-142799.2
	0.0	2992.3	-4.1	-25959.3	-891.4	-137141.5
	0.0	2985.6	-4.2	-26305.5	-907.3	-136044.7
	0.0	2951.5	-4.6	-28195.1	-985.8	-130387.0
	0.0	3258.5	-1.3	-11162.2	-280.0	-181372.1
	0.0	3224.5	-1.7	-13051.9	-358.5	-175714.4
	0.0	3217.7	-1.7	-13398.0	-374.4	-174617.5
	0.0	3183.7	-2.1	-15287.6	-452.9	-168959.8
212.	0.0	633.0	1.5	7575.3	7.0	186628.8
	0.0	588.2	1.2	5775.2	5.4	183579.2
	0.0	579.2	1.1	5441.5	5.1	182939.3
	0.0	534.4	0.7	3641.4	3.4	179889.7
	0.0	938.2	4.0	19867.6	18.2	207399.1
	0.0	893.4	3.6	18067.5	16.6	204349.5

	0.0	884.4	3.6	17733.9	16.2	203709.6
	0.0	839.6	3.2	15933.8	14.6	200660.0
	0.0	-26.2	-3.7	-19030.0	-17.1	141780.0
	0.0	-71.0	-4.1	-20830.1	-18.7	138730.4
	0.0	-80.0	-4.2	-21163.7	-19.0	138090.6
	0.0	-124.8	-4.5	-22963.8	-20.7	135041.0
	0.0	279.0	-1.3	-6737.6	-5.9	162550.3
	0.0	234.2	-1.7	-8537.7	-7.5	159500.7
	0.0	225.2	-1.7	-8871.4	-7.8	158860.9
	0.0	180.4	-2.1	-10671.5	-9.5	155811.3
423.	0.0	-810.3	1.6	11733.2	-320.2	145509.9
	0.0	-843.1	1.2	9914.3	-245.1	133738.7
	0.0	-849.9	1.1	9573.0	-229.8	131327.9
	0.0	-882.7	0.7	7754.1	-154.7	119556.6
	0.0	-586.7	4.0	24150.5	-830.3	225691.0
	0.0	-619.6	3.7	22331.6	-755.2	213919.7
	0.0	-626.4	3.6	21990.3	-739.8	211509.0
	0.0	-659.2	3.2	20171.4	-664.7	199737.7
	0.0	-1292.6	-3.8	-15136.1	778.0	-27621.9
	0.0	-1325.4	-4.1	-16955.0	853.1	-39393.2
	0.0	-1332.2	-4.2	-17296.3	868.4	-41803.9
	0.0	-1365.0	-4.6	-19115.2	943.5	-53575.2
	0.0	-1069.1	-1.3	-2718.7	268.0	52559.2
	0.0	-1101.9	-1.7	-4537.6	343.1	40787.9
	0.0	-1108.7	-1.7	-4878.9	358.4	38377.2
	0.0	-1141.5	-2.1	-6697.8	433.5	26605.9
Asta	13	nod	16	15		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	1901.5	5.4	12168.9	373.9	-57425.3
	0.0	1881.4	4.1	8628.2	286.3	-59713.2
	0.0	1877.4	3.9	7916.1	268.6	-60248.6
	0.0	1857.3	2.6	4375.4	180.9	-62536.5
	0.0	2039.0	14.0	36311.8	970.1	-41901.3
	0.0	2018.9	12.7	32771.1	882.4	-44189.2
	0.0	2015.0	12.5	32059.0	864.7	-44724.6
	0.0	1994.8	11.2	28518.3	777.1	-47012.5
	0.0	1604.1	-13.1	-40015.9	-909.1	-90832.6
	0.0	1583.9	-14.4	-43556.6	-996.8	-93120.5
	0.0	1580.0	-14.6	-44268.7	-1014.5	-93655.9
	0.0	1559.8	-15.9	-47809.4	-1102.1	-95943.8
	0.0	1741.6	-4.5	-15873.1	-313.0	-75308.6
	0.0	1721.4	-5.8	-19413.8	-400.7	-77596.5
	0.0	1717.5	-6.0	-20125.9	-418.3	-78131.9
	0.0	1697.3	-7.3	-23666.6	-506.0	-80419.8
67.	0.0	1303.9	5.4	12541.5	11.5	49636.5
	0.0	1285.8	4.1	8960.0	8.8	46022.9
	0.0	1282.3	3.9	8238.1	8.3	45230.2
	0.0	1264.3	2.6	4656.5	5.6	41616.7
	0.0	1427.2	14.0	36961.4	29.9	74207.8
	0.0	1409.1	12.7	33379.8	27.2	70594.3
	0.0	1405.7	12.5	32657.9	26.7	69801.6
	0.0	1387.6	11.2	29076.4	24.0	66188.1
	0.0	1037.0	-13.1	-40238.9	-27.9	-3340.9
	0.0	1019.0	-14.4	-43820.4	-30.6	-6954.4
	0.0	1015.5	-14.6	-44542.3	-31.1	-7747.1
	0.0	997.4	-15.9	-48123.9	-33.8	-11360.6
	0.0	1160.4	-4.5	-15819.0	-9.5	21230.5
	0.0	1142.3	-5.8	-19400.6	-12.2	17617.0
	0.0	1138.8	-6.0	-20122.5	-12.7	16824.3
	0.0	1120.8	-7.3	-23704.0	-15.4	13210.8
134.	0.0	820.9	5.4	12992.4	-350.9	120407.5
	0.0	812.4	4.1	9347.6	-268.7	115859.4
	0.0	810.9	3.9	8611.4	-252.0	114891.1
	0.0	802.4	2.6	4966.7	-169.7	110343.0
	0.0	878.8	14.0	37841.6	-910.3	151363.6
	0.0	870.3	12.7	34196.8	-828.0	146815.5
	0.0	868.8	12.5	33460.6	-811.3	145847.2
	0.0	860.4	11.2	29815.9	-729.1	141299.1
	0.0	695.3	-13.1	-40712.9	853.4	53609.7
	0.0	686.8	-14.4	-44357.6	935.6	49061.6
	0.0	685.3	-14.6	-45093.8	952.3	48093.3
	0.0	676.8	-15.9	-48738.6	1034.6	43545.2
	0.0	753.2	-4.5	-15863.7	294.0	84565.8
	0.0	744.7	-5.8	-19508.4	376.3	80017.7
	0.0	743.2	-6.0	-20244.6	392.9	79049.4
	0.0	734.8	-7.3	-23889.4	475.2	74501.3
Asta	14	nod	17	3		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3654.0	2.0	52871.4	373.9	-91544.0
	0.0	3627.1	1.5	51476.5	286.3	-88696.6
	0.0	3621.9	1.4	51180.7	268.0	-88237.0
	0.0	3594.9	1.0	49785.8	180.3	-85389.6
	0.0	3838.4	5.2	62360.5	969.1	-111125.0
	0.0	3811.4	4.7	60965.6	881.4	-108277.7
	0.0	3806.3	4.6	60669.9	863.2	-107818.0
	0.0	3779.3	4.2	59274.9	775.5	-104970.7
	0.0	3254.2	-4.9	32405.7	-908.0	-48801.0
	0.0	3227.2	-5.3	31010.7	-995.7	-45953.7
	0.0	3222.1	-5.4	30715.0	-1014.0	-45494.0

	0.0	3195.1	-5.9	29320.1	-1101.6	-42646.7
	0.0	3438.6	-1.7	41894.8	-312.9	-68382.0
	0.0	3411.6	-2.1	40499.9	-400.5	-65534.7
	0.0	3406.4	-2.2	40204.1	-418.8	-65075.0
214.	0.0	3379.5	-2.7	38809.2	-506.5	-62227.7
	0.0	28.8	2.0	55018.6	-55.2	283921.6
	0.0	9.4	1.5	53463.4	-42.3	281780.7
	0.0	5.9	1.4	53132.0	-39.5	281303.9
	0.0	-13.5	1.0	51576.8	-26.6	279163.0
	0.0	161.6	5.2	65597.6	-142.8	298466.0
	0.0	142.2	4.7	64042.4	-129.9	296325.0
	0.0	138.7	4.6	63711.0	-127.1	295848.3
	0.0	119.3	4.1	62155.8	-114.2	293707.3
	0.0	-259.6	-4.9	32201.9	133.9	252608.0
	0.0	-279.0	-5.3	30646.7	146.8	250467.0
	0.0	-282.5	-5.4	30315.3	149.5	249990.3
	0.0	-301.9	-5.9	28760.1	162.5	247849.3
	0.0	-126.8	-1.7	42780.9	46.3	267152.4
	0.0	-146.2	-2.1	41225.8	59.2	265011.4
	0.0	-149.7	-2.2	40894.3	62.0	264534.7
429.	0.0	-169.1	-2.7	39339.1	74.9	262393.7
	0.0	-2742.2	2.0	60563.3	-486.9	-17930.9
	0.0	-2751.4	1.5	58751.9	-372.8	-23241.7
	0.0	-2752.5	1.4	58364.3	-348.9	-24243.4
	0.0	-2761.7	1.0	56552.8	-234.8	-29554.2
	0.0	-2678.9	5.2	72885.5	-1261.4	18379.7
	0.0	-2688.1	4.8	71074.1	-1147.2	13068.9
	0.0	-2689.2	4.7	70686.5	-1123.4	12067.2
	0.0	-2698.4	4.2	68875.0	-1009.2	6756.4
	0.0	-2881.0	-4.9	33986.7	1182.1	-96644.8
	0.0	-2890.2	-5.4	32175.3	1296.2	-101955.6
	0.0	-2891.3	-5.5	31787.6	1320.1	-102957.3
	0.0	-2900.5	-6.0	29976.2	1434.2	-108268.1
	0.0	-2817.7	-1.7	46308.9	407.6	-60334.1
	0.0	-2826.9	-2.2	44497.5	521.8	-65645.0
	0.0	-2828.0	-2.3	44109.8	545.6	-66646.7
	0.0	-2837.2	-2.7	42298.4	659.8	-71957.5
Asta	15	nod1	18	3		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	1760.8	3.9	-33773.2	706.4	-93905.1
	0.0	1752.0	3.0	-42473.9	540.6	-103101.1
	0.0	1748.9	2.8	-44318.9	507.2	-104809.5
	0.0	1740.1	1.9	-53019.6	341.5	-114005.5
	0.0	1819.3	10.2	25453.9	1835.3	-31004.9
	0.0	1810.5	9.3	16753.1	1669.5	-40200.9
	0.0	1807.3	9.1	14908.2	1636.2	-41909.4
	0.0	1798.5	8.2	6207.4	1470.4	-51105.3
	0.0	1637.6	-9.6	-161595.4	-1722.0	-230295.0
	0.0	1628.8	-10.5	-170296.1	-1887.8	-239491.0
	0.0	1625.6	-10.7	-172141.1	-1921.1	-241199.4
	0.0	1616.8	-11.6	-180841.8	-2086.9	-250395.4
	0.0	1696.0	-3.3	-102368.3	-593.1	-167394.9
	0.0	1687.2	-4.2	-111069.1	-758.9	-176590.8
	0.0	1684.1	-4.4	-112914.0	-792.2	-178299.3
	0.0	1675.3	-5.3	-121614.8	-958.0	-187495.3
173.	0.0	95.2	3.9	-37121.5	27.6	69757.0
	0.0	116.8	3.0	-45084.5	21.1	61958.1
	0.0	120.4	2.8	-46771.6	20.1	60356.3
	0.0	142.0	1.9	-54734.7	13.6	52557.4
	0.0	-53.0	10.2	17084.9	73.4	122920.0
	0.0	-31.4	9.3	9121.9	66.9	115121.1
	0.0	-27.8	9.1	7434.8	65.9	113519.3
	0.0	-6.2	8.1	-528.3	59.4	105720.4
	0.0	417.5	-9.5	-154110.3	-69.4	-45140.5
	0.0	439.1	-10.5	-162073.4	-76.0	-52939.4
	0.0	442.7	-10.6	-163760.5	-76.9	-54541.2
	0.0	464.3	-11.6	-171723.5	-83.5	-62340.1
	0.0	269.3	-3.3	-99903.9	-23.6	8022.5
	0.0	290.9	-4.2	-107867.0	-30.2	223.6
	0.0	294.5	-4.4	-109554.1	-31.1	-1378.2
	0.0	316.1	-5.3	-117517.1	-37.7	-9177.1
346.	0.0	-1802.1	3.9	-41977.1	-650.6	-74284.3
	0.0	-1764.6	3.0	-49525.7	-498.0	-76830.8
	0.0	-1757.4	2.8	-51123.4	-466.6	-77472.1
	0.0	-1719.9	1.9	-58672.0	-314.0	-80018.6
	0.0	-2058.5	10.2	9409.5	-1687.1	-57055.0
	0.0	-2021.0	9.3	1860.9	-1534.5	-59601.5
	0.0	-2013.8	9.1	263.2	-1503.0	-60242.8
	0.0	-1976.2	8.2	-7285.4	-1350.5	-62789.2
	0.0	-1246.8	-9.6	-152882.4	1581.8	-111249.0
	0.0	-1209.3	-10.5	-160431.0	1734.4	-113795.4
	0.0	-1202.1	-10.7	-162028.8	1765.8	-114436.7
	0.0	-1164.6	-11.6	-169577.4	1918.4	-116983.2
	0.0	-1503.2	-3.3	-101495.8	545.4	-94019.7
	0.0	-1465.6	-4.2	-109044.4	697.9	-96566.1
	0.0	-1458.5	-4.4	-110642.1	729.4	-97207.4
	0.0	-1420.9	-5.3	-118190.8	881.9	-99753.9
Asta	16	nod1	18	19		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ

0.	0.0	1526.5	13.2	13754.4	435.2	-143671.7
	0.0	1606.1	10.1	16616.0	332.9	-153271.8
	0.0	1624.0	9.5	17231.8	312.6	-155271.3
	0.0	1703.6	6.4	20093.4	210.3	-164871.3
	0.0	986.2	34.3	-5715.7	1132.0	-78284.2
	0.0	1065.8	31.2	-2854.1	1029.7	-87884.2
	0.0	1083.8	30.6	-2238.3	1009.4	-89883.8
	0.0	1163.3	27.5	623.4	907.1	-99483.8
	0.0	2690.0	-32.2	55766.8	-1062.3	-284867.0
	0.0	2769.6	-35.3	58628.4	-1164.6	-294467.0
	0.0	2787.6	-35.9	59244.2	-1184.9	-296466.5
	0.0	2867.1	-39.0	62105.8	-1287.1	-306066.5
	0.0	2149.8	-11.1	36296.7	-365.5	-219479.4
	0.0	2229.3	-14.2	39158.3	-467.7	-229079.5
	0.0	2247.3	-14.8	39774.1	-488.1	-231079.0
	0.0	2326.8	-17.9	42635.8	-590.3	-240679.0
40.	0.0	1171.0	13.2	14563.0	-88.7	-90088.8
	0.0	1262.0	10.1	17293.9	-68.0	-96312.6
	0.0	1282.5	9.5	17881.5	-63.9	-97551.1
	0.0	1373.5	6.4	20612.3	-43.2	-103775.0
	0.0	552.7	34.3	-4017.6	-230.4	-47635.2
	0.0	643.7	31.2	-1286.8	-209.7	-53859.1
	0.0	664.2	30.6	-699.2	-205.6	-55097.6
	0.0	755.2	27.5	2031.7	-184.9	-61321.4
	0.0	2502.9	-32.2	54656.9	216.5	-181889.6
	0.0	2593.9	-35.3	57387.7	237.2	-188113.5
	0.0	2614.3	-35.9	57975.3	241.3	-189352.0
	0.0	2705.4	-39.0	60706.2	262.0	-195575.9
	0.0	1884.6	-11.1	36076.2	74.8	-139436.0
	0.0	1975.6	-14.2	38807.1	95.5	-145659.9
	0.0	1996.0	-14.8	39394.7	99.6	-146898.4
	0.0	2087.0	-17.9	42125.6	120.3	-153122.3
79.	0.0	821.9	13.2	15403.4	-612.6	-50509.8
	0.0	928.3	10.1	18009.5	-468.9	-52823.8
	0.0	952.1	9.5	18570.2	-440.4	-53188.0
	0.0	1058.5	6.4	21176.3	-296.7	-55502.0
	0.0	98.8	34.3	-2328.3	-1592.8	-34621.5
	0.0	205.2	31.2	277.8	-1449.1	-36935.5
	0.0	229.0	30.6	838.4	-1420.6	-37299.7
	0.0	335.4	27.5	3444.5	-1276.9	-39613.6
	0.0	2379.9	-32.2	53666.4	1495.3	-85084.8
	0.0	2486.4	-35.3	56272.5	1639.0	-87398.8
	0.0	2510.1	-35.9	56833.2	1667.5	-87763.0
	0.0	2616.5	-39.0	59439.3	1811.2	-90076.9
	0.0	1656.8	-11.1	35934.6	515.1	-69196.5
	0.0	1763.2	-14.2	38540.7	658.8	-71510.5
	0.0	1787.0	-14.8	39101.4	687.3	-71874.6
	0.0	1893.4	-17.9	41707.5	831.0	-74188.6
Asta PROGR. 0.	28	nod	128	28		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	0.0	4005.1	3.2	-181128.9	591.1	-451539.4
	0.0	3943.1	2.4	-182758.7	452.4	-441813.9
	0.0	3930.2	2.3	-183048.3	424.2	-439798.6
	0.0	3868.2	1.5	-184678.1	285.5	-430073.1
	0.0	4427.3	8.2	-169999.9	1533.0	-517733.5
	0.0	4365.3	7.5	-171629.7	1394.3	-508007.9
	0.0	4352.5	7.3	-171919.2	1366.1	-505992.7
	0.0	4290.4	6.6	-173549.0	1227.4	-496267.1
	0.0	3093.9	-7.7	-205212.4	-1436.7	-308717.1
	0.0	3031.9	-8.4	-206842.2	-1575.4	-298991.5
	0.0	3019.1	-8.6	-207131.8	-1603.6	-296976.3
	0.0	2957.0	-9.3	-208761.6	-1742.3	-287250.7
	0.0	3516.1	-2.6	-194083.4	-494.8	-374911.1
	0.0	3454.1	-3.4	-195713.2	-633.5	-365185.5
	0.0	3441.3	-3.5	-196002.7	-661.7	-363170.3
195.	0.0	3379.2	-4.3	-197632.5	-800.5	-353444.7
	0.0	1500.2	3.2	-172302.7	-22.6	66753.6
	0.0	1440.6	2.4	-173837.3	-17.3	64385.5
	0.0	1428.2	2.3	-174114.2	-16.3	63906.9
	0.0	1368.5	1.5	-175648.8	-11.0	61538.9
	0.0	1906.5	8.2	-161827.0	-58.6	82891.9
	0.0	1846.9	7.4	-163361.6	-53.3	80523.9
	0.0	1834.5	7.3	-163638.5	-52.3	80045.2
	0.0	1774.8	6.5	-165173.1	-47.0	77677.2
	0.0	623.5	-7.7	-194965.8	54.9	31889.7
	0.0	563.8	-8.4	-196500.5	60.2	29521.6
	0.0	551.4	-8.5	-196777.3	61.2	29043.0
	0.0	491.8	-9.3	-198312.0	66.5	26675.0
	0.0	1029.8	-2.6	-184490.1	18.9	48028.0
	0.0	970.1	-3.4	-186024.8	24.2	45660.0
	0.0	957.7	-3.5	-186301.6	25.2	45181.3
389.	0.0	898.1	-4.3	-187836.3	30.5	42813.3
	0.0	109.2	3.2	-172281.5	-637.1	206190.1
	0.0	67.7	2.4	-173799.4	-487.6	193656.5
	0.0	58.6	2.3	-174077.7	-457.3	191031.8
	0.0	17.1	1.5	-175595.6	-307.8	178498.2
	0.0	391.1	8.2	-161923.9	-1652.1	291485.0
	0.0	349.6	7.5	-163441.8	-1502.6	278951.4
	0.0	340.5	7.3	-163720.1	-1472.3	276326.7
	0.0	299.0	6.6	-165238.0	-1322.8	263793.1

	0.0	-498.3	-7.7	-194682.5	1548.2	22170.5
	0.0	-539.8	-8.4	-196200.3	1697.6	9636.9
	0.0	-548.9	-8.6	-196478.6	1728.0	7012.1
	0.0	-590.3	-9.3	-197996.5	1877.4	-5521.4
	0.0	-216.3	-2.7	-184324.8	533.2	107465.3
	0.0	-257.8	-3.4	-185842.7	682.7	94931.8
	0.0	-266.9	-3.5	-186121.0	713.0	92307.0
	0.0	-308.4	-4.3	-187638.9	862.4	79773.5
Asta	29	nod	30	128		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2038.5	2.0	129378.7	479.6	-7781.3
	0.0	1993.9	1.5	129595.3	367.0	8328.4
	0.0	1984.8	1.4	129603.7	344.0	11747.0
	0.0	1940.2	0.9	129820.3	231.4	27856.6
	0.0	2342.1	5.1	127870.7	1243.9	-117379.5
	0.0	2297.5	4.6	128087.2	1131.3	-101269.9
	0.0	2288.4	4.5	128095.7	1108.2	-97851.3
	0.0	2243.8	4.1	128312.3	995.6	-81741.7
	0.0	1383.1	-4.8	132697.4	-1165.9	228606.7
	0.0	1338.5	-5.2	132913.9	-1278.5	244716.4
	0.0	1329.4	-5.3	132922.4	-1301.5	248134.9
	0.0	1284.8	-5.8	133139.0	-1414.1	264244.6
	0.0	1686.7	-1.6	131189.3	-401.7	119008.5
	0.0	1642.1	-2.1	131405.9	-514.2	135118.1
	0.0	1633.0	-2.2	131414.4	-537.3	138536.7
	0.0	1588.4	-2.7	131630.9	-649.9	154646.3
248.	0.0	-563.6	1.9	131807.1	-3.2	187537.5
	0.0	-615.5	1.5	132293.8	-2.4	191444.3
	0.0	-626.6	1.4	132351.3	-2.3	192304.5
	0.0	-678.5	0.9	132838.0	-1.6	196211.3
	0.0	-210.5	5.0	128455.6	-8.3	160974.6
	0.0	-262.4	4.6	128942.3	-7.5	164881.4
	0.0	-273.5	4.5	128999.8	-7.4	165741.6
	0.0	-325.4	4.0	129486.5	-6.7	169648.4
	0.0	-1325.2	-4.7	139111.8	7.7	244795.5
	0.0	-1377.1	-5.2	139598.5	8.4	248702.3
	0.0	-1388.2	-5.3	139655.9	8.6	249562.5
	0.0	-1440.1	-5.7	140142.6	9.3	253469.3
	0.0	-972.1	-1.6	135760.3	2.6	218232.5
	0.0	-1024.0	-2.1	136247.0	3.4	222139.3
	0.0	-1035.1	-2.2	136304.4	3.5	222999.5
	0.0	-1087.0	-2.6	136791.1	4.2	226906.3
496.	0.0	-3959.7	2.0	145008.9	-486.3	-355180.7
	0.0	-4019.7	1.5	145805.6	-372.1	-365062.4
	0.0	-4032.4	1.4	145917.5	-348.8	-367134.5
	0.0	-4092.4	0.9	146714.1	-234.7	-377016.2
	0.0	-3551.3	5.1	139540.0	-1261.1	-287936.8
	0.0	-3611.3	4.6	140336.7	-1146.9	-297818.5
	0.0	-3624.0	4.5	140448.5	-1123.6	-299890.5
	0.0	-3684.0	4.1	141245.2	-1009.5	-309772.3
	0.0	-4840.7	-4.8	156897.1	1181.9	-500251.1
	0.0	-4900.7	-5.2	157693.8	1296.1	-510132.8
	0.0	-4913.4	-5.3	157805.6	1319.3	-512204.8
	0.0	-4973.4	-5.8	158602.3	1433.5	-522086.5
	0.0	-4432.3	-1.6	151428.2	407.1	-433007.1
	0.0	-4492.3	-2.1	152224.9	521.3	-442888.9
	0.0	-4505.0	-2.2	152336.7	544.5	-444960.9
	0.0	-4565.0	-2.7	153133.4	658.7	-454842.6
Asta	30	nod	31	30		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2218.4	1.9	-50242.2	470.5	-80812.1
	0.0	2271.1	1.4	-47289.0	360.0	-79923.1
	0.0	2283.2	1.4	-46681.9	337.3	-79871.8
	0.0	2335.9	0.9	-43728.6	226.9	-78982.8
	0.0	1860.1	4.9	-70358.4	1220.2	-86918.9
	0.0	1912.8	4.5	-67405.2	1109.7	-86029.9
	0.0	1925.0	4.4	-66798.1	1087.0	-85978.6
	0.0	1977.7	3.9	-63844.8	976.5	-85089.6
	0.0	2990.2	-4.6	-6808.9	-1143.6	-67511.2
	0.0	3042.9	-5.1	-3855.6	-1254.1	-66622.2
	0.0	3055.1	-5.1	-3248.5	-1276.8	-66570.9
	0.0	3107.8	-5.6	-295.3	-1387.3	-65681.9
	0.0	2632.0	-1.6	-26925.1	-394.0	-73618.0
	0.0	2684.7	-2.0	-23971.8	-504.4	-72729.0
	0.0	2696.9	-2.1	-23364.7	-527.1	-72677.7
	0.0	2749.6	-2.6	-20411.5	-637.6	-71788.7
250.	0.0	-32.0	1.9	-43531.7	-0.6	187929.6
	0.0	-50.5	1.4	-41179.3	-0.4	192208.9
	0.0	-53.8	1.3	-40702.0	-0.4	193175.0
	0.0	-72.2	0.9	-38349.6	-0.3	197454.2
	0.0	94.0	4.9	-59559.8	-1.5	158845.6
	0.0	75.5	4.4	-57207.5	-1.3	163124.9
	0.0	72.2	4.3	-56730.1	-1.3	164091.0
	0.0	53.8	3.9	-54377.8	-1.2	168370.3
	0.0	-304.4	-4.6	-8915.4	1.4	250602.1
	0.0	-322.9	-5.0	-6563.0	1.5	254881.3
	0.0	-326.2	-5.1	-6085.7	1.5	255847.4
	0.0	-344.6	-5.5	-3733.3	1.7	260126.7
	0.0	-178.4	-1.6	-24943.5	0.5	221518.1

	0.0	-196.9	-2.0	-22591.1	0.6	225797.4
	0.0	-200.2	-2.1	-22113.8	0.6	226763.4
	0.0	-218.7	-2.5	-19761.4	0.8	231042.7
500.	0.0	-2278.8	1.9	-40434.3	-471.7	-96624.6
	0.0	-2331.7	1.5	-38487.6	-360.9	-101962.8
	0.0	-2342.8	1.4	-38100.4	-338.2	-102935.0
	0.0	-2395.7	0.9	-36153.7	-227.5	-108273.2
	0.0	-1918.7	4.9	-53704.6	-1223.2	-60219.9
	0.0	-1971.6	4.5	-51757.9	-1112.5	-65558.1
	0.0	-1982.7	4.4	-51370.7	-1089.8	-66530.3
	0.0	-2035.6	3.9	-49424.0	-979.0	-71868.5
	0.0	-3055.7	-4.6	-11761.8	1146.6	-175321.0
	0.0	-3108.6	-5.1	-9815.1	1257.3	-180659.2
	0.0	-3119.7	-5.1	-9427.9	1280.0	-181631.4
	0.0	-3172.7	-5.6	-7481.2	1390.8	-186969.6
	0.0	-2695.6	-1.6	-25032.2	395.0	-138916.4
	0.0	-2748.5	-2.0	-23085.5	505.7	-144254.5
	0.0	-2759.6	-2.1	-22698.3	528.5	-145226.7
	0.0	-2812.5	-2.6	-20751.6	639.2	-150564.9
Asta	31	nod	31	5		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	997.0	3.2	-63692.0	534.0	66869.1
	0.0	985.8	2.5	-68458.7	408.6	74412.2
	0.0	982.5	2.3	-69484.4	382.8	76096.4
	0.0	971.3	1.5	-74251.1	257.4	83639.5
	0.0	1072.5	8.3	-31266.6	1384.7	15572.1
	0.0	1061.3	7.6	-36033.3	1259.3	23115.3
	0.0	1058.0	7.4	-37059.1	1233.6	24799.4
	0.0	1046.8	6.6	-41825.8	1108.2	32342.6
	0.0	835.1	-7.8	-133624.0	-1297.8	177458.2
	0.0	824.0	-8.5	-138390.7	-1423.2	185001.3
	0.0	820.6	-8.7	-139416.5	-1448.9	186685.5
	0.0	809.5	-9.4	-144183.2	-1574.3	194228.6
	0.0	910.6	-2.7	-101198.7	-447.0	126161.2
	0.0	899.4	-3.4	-105965.4	-572.4	133704.4
	0.0	896.1	-3.6	-106991.1	-598.2	135388.5
	0.0	884.9	-4.3	-111757.8	-723.6	142931.7
132.	0.0	-448.5	3.2	-62675.3	110.2	107225.3
	0.0	-497.6	2.4	-67283.1	84.3	110523.2
	0.0	-509.1	2.3	-68276.6	79.0	111172.2
	0.0	-558.2	1.5	-72884.4	53.1	114470.2
	0.0	-115.0	8.3	-31332.4	285.9	84754.4
	0.0	-164.1	7.5	-35940.2	260.0	88052.4
	0.0	-175.6	7.4	-36933.8	254.7	88701.4
	0.0	-224.6	6.6	-41541.5	228.8	91999.4
	0.0	-1167.0	-7.8	-130270.3	-267.9	155758.4
	0.0	-1216.1	-8.5	-134878.1	-293.8	159056.4
	0.0	-1227.5	-8.7	-135871.7	-299.1	159705.4
	0.0	-1276.6	-9.4	-140479.4	-325.0	163003.3
	0.0	-833.5	-2.7	-98927.5	-92.3	133287.6
	0.0	-882.6	-3.4	-103535.2	-118.2	136585.6
	0.0	-894.0	-3.6	-104528.8	-123.5	137234.5
	0.0	-943.1	-4.3	-109136.6	-149.4	140532.5
265.	0.0	-2286.4	3.2	-63164.3	-312.7	-69386.9
	0.0	-2351.6	2.4	-67723.9	-239.3	-73894.5
	0.0	-2366.6	2.3	-68709.1	-224.2	-75050.5
	0.0	-2431.8	1.5	-73268.6	-150.8	-79558.2
	0.0	-1843.2	8.3	-32151.0	-811.0	-38806.9
	0.0	-1908.4	7.5	-36710.5	-737.6	-43314.6
	0.0	-1923.4	7.4	-37695.7	-722.5	-44470.5
	0.0	-1988.6	6.6	-42255.3	-649.1	-48978.2
	0.0	-3241.4	-7.8	-130046.2	760.2	-135160.6
	0.0	-3306.6	-8.5	-134605.7	833.6	-139668.3
	0.0	-3321.6	-8.7	-135591.0	848.7	-140824.3
	0.0	-3386.8	-9.4	-140150.5	922.1	-145332.0
	0.0	-2798.2	-2.7	-99032.8	261.9	-104580.6
	0.0	-2863.4	-3.4	-103592.4	335.3	-109088.3
	0.0	-2878.4	-3.6	-104577.6	350.4	-110244.3
	0.0	-2943.6	-4.3	-109137.1	423.8	-114752.0
Asta	32	nod	5	32		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2964.0	0.7	-20244.6	184.3	-338197.0
	0.0	2897.7	0.5	-12386.5	141.1	-327035.4
	0.0	2883.9	0.5	-10720.8	132.2	-324631.9
	0.0	2817.5	0.3	-2862.7	88.9	-313470.3
	0.0	3415.9	1.7	-73733.6	478.0	-414123.1
	0.0	3349.5	1.6	-65875.5	434.8	-402961.4
	0.0	3335.8	1.5	-64209.8	425.9	-400558.0
	0.0	3269.4	1.4	-56351.7	382.6	-389396.3
	0.0	1988.8	-1.6	95175.5	-448.1	-174451.7
	0.0	1922.4	-1.8	103033.6	-491.3	-163290.0
	0.0	1908.6	-1.8	104699.3	-500.2	-160886.6
	0.0	1842.3	-2.0	112557.5	-543.5	-149725.0
	0.0	2440.6	-0.6	41686.5	-154.4	-250377.7
	0.0	2374.3	-0.7	49544.6	-197.7	-239216.1
	0.0	2360.5	-0.7	51210.3	-206.5	-236812.6
	0.0	2294.1	-0.9	59068.5	-249.8	-225651.0
112.	0.0	1214.1	0.7	-15450.0	109.8	-103101.2
	0.0	1142.3	0.5	-7797.1	84.0	-99685.9

	0.0	1127.3	0.5	-6176.5	78.7	-98895.0
	0.0	1055.5	0.3	1476.4	52.9	-95479.7
	0.0	1702.8	1.7	-67543.2	284.6	-126290.7
	0.0	1631.0	1.6	-59890.3	258.9	-122875.4
	0.0	1616.0	1.5	-58269.7	253.6	-122084.4
	0.0	1544.2	1.4	-50616.8	227.8	-118669.2
	0.0	159.5	-1.6	96960.4	-266.8	-53172.9
	0.0	87.7	-1.8	104613.3	-292.6	-49757.6
	0.0	72.7	-1.8	106234.0	-297.9	-48966.7
	0.0	0.9	-1.9	113886.9	-323.6	-45551.4
	0.0	648.2	-0.6	44867.2	-91.9	-76362.3
	0.0	576.4	-0.7	52520.1	-117.7	-72947.0
	0.0	561.4	-0.7	54140.8	-123.0	-72156.1
	0.0	489.6	-0.9	61793.7	-148.7	-68740.8
225.	0.0	-511.9	0.7	-10924.0	35.6	-64025.2
	0.0	-592.7	0.5	-3343.3	27.2	-69158.7
	0.0	-609.9	0.5	-1739.5	25.5	-70167.9
	0.0	-690.7	0.3	5841.2	17.2	-75301.4
	0.0	38.4	1.7	-62526.8	92.3	-29027.9
	0.0	-42.5	1.6	-54946.1	83.9	-34161.4
	0.0	-59.6	1.5	-53342.4	82.2	-35170.5
	0.0	-140.5	1.4	-45761.7	73.9	-40304.0
	0.0	-1699.0	-1.6	100430.7	-86.5	-139652.3
	0.0	-1779.9	-1.8	108011.4	-94.8	-144785.8
	0.0	-1797.0	-1.8	109615.1	-96.5	-145794.9
	0.0	-1877.9	-1.9	117195.8	-104.9	-150928.4
	0.0	-1148.8	-0.6	48827.8	-29.8	-104654.9
	0.0	-1229.7	-0.7	56408.5	-38.2	-109788.4
	0.0	-1246.8	-0.7	58012.3	-39.8	-110797.5
	0.0	-1327.6	-0.9	65593.0	-48.2	-115931.0
Asta	33	nod	32	33		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-511.9	2.4	63765.5	35.6	-12350.0
	0.0	-592.7	1.9	69066.9	27.2	-4885.7
	0.0	-609.9	1.7	70111.6	25.5	-3304.9
	0.0	-690.7	1.2	75413.0	17.2	4159.4
	0.0	38.4	6.3	27625.4	92.3	-63159.0
	0.0	-42.5	5.7	32926.8	83.9	-55694.8
	0.0	-59.6	5.6	33971.4	82.2	-54113.9
	0.0	-140.5	5.0	39272.8	73.9	-46649.6
	0.0	-1699.0	-5.9	141858.5	-86.5	97289.4
	0.0	-1779.9	-6.5	147159.9	-94.8	104753.6
	0.0	-1797.0	-6.6	148204.6	-96.5	106334.5
	0.0	-1877.9	-7.2	153506.0	-104.9	113798.8
	0.0	-1148.8	-2.0	105718.4	-29.8	46480.3
	0.0	-1229.7	-2.6	111019.8	-38.2	53944.6
	0.0	-1246.8	-2.7	112064.4	-39.8	55525.4
	0.0	-1327.6	-3.3	117365.8	-48.2	62989.7
115.	0.0	-2400.1	2.4	65124.0	-243.4	-176890.7
	0.0	-2492.7	1.9	70428.6	-186.3	-179379.5
	0.0	-2512.5	1.7	71470.5	-174.6	-179923.5
	0.0	-2605.1	1.2	76775.0	-117.5	-182412.3
	0.0	-1770.2	6.3	28959.7	-631.3	-159975.1
	0.0	-1862.8	5.7	34264.3	-574.2	-162463.9
	0.0	-1882.6	5.6	35306.2	-562.5	-163007.9
	0.0	-1975.2	5.0	40610.7	-505.3	-165496.7
	0.0	-3758.8	-5.9	143273.9	591.8	-213348.0
	0.0	-3851.4	-6.5	148578.4	648.9	-215836.8
	0.0	-3871.2	-6.6	149620.3	660.6	-216380.8
	0.0	-3963.8	-7.2	154924.9	717.7	-218869.6
	0.0	-3128.9	-2.0	107109.6	203.9	-196432.4
	0.0	-3221.5	-2.6	112414.1	261.1	-198921.2
	0.0	-3241.3	-2.7	113456.0	272.7	-199465.2
	0.0	-3333.9	-3.3	118760.6	329.9	-201954.0
230.	0.0	-4554.1	2.4	67664.4	-523.3	-574699.5
	0.0	-4660.2	1.9	73068.4	-400.5	-588601.4
	0.0	-4683.1	1.7	74126.5	-375.4	-591601.9
	0.0	-4789.1	1.2	79530.5	-252.6	-605503.9
	0.0	-3832.6	6.3	30819.6	-1357.3	-480137.4
	0.0	-3938.7	5.8	36223.7	-1234.4	-494039.4
	0.0	-3961.6	5.6	37281.7	-1209.4	-497039.9
	0.0	-4067.6	5.1	42685.7	-1086.5	-510941.8
	0.0	-6110.3	-5.9	147289.5	1272.3	-778632.4
	0.0	-6216.4	-6.5	152693.5	1395.2	-792534.3
	0.0	-6239.3	-6.6	153751.6	1420.3	-795534.8
	0.0	-6345.3	-7.2	159155.6	1543.1	-809436.8
	0.0	-5388.8	-2.0	110444.7	438.4	-684070.4
	0.0	-5494.9	-2.6	115848.7	561.3	-697972.3
	0.0	-5517.7	-2.7	116906.8	586.3	-700972.8
	0.0	-5623.8	-3.3	122310.8	709.2	-714874.7
Asta	34	nod	33	11		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3899.3	4.8	90659.3	610.3	-687937.1
	0.0	3843.9	3.7	90427.1	467.0	-680778.9
	0.0	3832.3	3.5	90410.6	437.8	-679250.0
	0.0	3776.9	2.3	90178.4	294.6	-672091.8
	0.0	4276.9	12.5	92249.3	1582.7	-736643.0
	0.0	4221.5	11.4	92017.2	1439.4	-729484.9
	0.0	4210.0	11.2	92000.6	1410.2	-727955.9

	0.0	4154.5	10.0	91768.5	1267.0	-720797.7
	0.0	3084.3	-11.7	87212.9	-1483.6	-582873.6
	0.0	3028.8	-12.9	86980.7	-1626.8	-575715.4
	0.0	3017.3	-13.1	86964.2	-1656.0	-574186.5
	0.0	2961.9	-14.2	86732.0	-1799.3	-567028.3
	0.0	3461.9	-4.0	88802.9	-511.2	-631579.5
	0.0	3406.4	-5.2	88570.8	-654.4	-624421.4
	0.0	3394.9	-5.4	88554.2	-683.6	-622892.4
	0.0	3339.5	-6.5	88322.1	-826.9	-615734.2
109.	0.0	1770.0	4.8	94415.6	82.2	-378225.2
	0.0	1702.5	3.7	94323.2	62.9	-377801.2
	0.0	1688.4	3.5	94329.2	58.9	-377675.4
	0.0	1620.8	2.3	94236.8	39.6	-377251.4
	0.0	2229.9	12.5	95051.3	213.4	-381085.3
	0.0	2162.3	11.4	94958.8	194.1	-380661.3
	0.0	2148.2	11.1	94964.8	190.1	-380535.5
	0.0	2080.7	10.0	94872.4	170.7	-380111.5
	0.0	777.5	-11.7	93036.2	-200.2	-372109.8
	0.0	710.0	-12.9	92943.7	-219.5	-371685.8
	0.0	695.9	-13.1	92949.8	-223.5	-371560.1
	0.0	628.3	-14.2	92857.3	-242.8	-371136.0
	0.0	1237.4	-4.0	93671.8	-69.0	-374969.9
	0.0	1169.8	-5.2	93579.3	-88.4	-374545.9
	0.0	1155.7	-5.4	93585.4	-92.3	-374420.2
219.	0.0	1088.2	-6.5	93492.9	-111.7	-373996.1
	0.0	-233.3	4.8	99720.6	-445.5	-295945.9
	0.0	-312.6	3.7	99766.3	-341.0	-303560.4
	0.0	-329.2	3.5	99802.8	-319.8	-305114.5
	0.0	-408.5	2.3	99848.4	-215.2	-312729.0
	0.0	306.8	12.5	99412.2	-1155.2	-244079.6
	0.0	227.4	11.4	99457.9	-1050.7	-251694.1
	0.0	210.9	11.2	99494.4	-1029.5	-253248.2
	0.0	131.6	10.0	99540.1	-924.9	-260862.7
	0.0	-1399.0	-11.7	100385.5	1082.6	-407948.3
	0.0	-1478.3	-12.9	100431.1	1187.1	-415562.9
	0.0	-1494.8	-13.1	100467.7	1208.4	-417117.0
	0.0	-1574.2	-14.2	100513.3	1312.9	-424731.5
	0.0	-858.9	-4.0	100077.1	372.9	-356082.0
	0.0	-938.2	-5.2	100122.8	477.4	-363696.6
	0.0	-954.8	-5.4	100159.3	498.7	-365250.7
	0.0	-1034.1	-6.5	100204.9	603.2	-372865.2
Asta	35	nod1	11	16		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3604.6	1.7	-41796.3	353.6	-258119.4
	0.0	3521.8	1.3	-40568.3	270.6	-247031.2
	0.0	3503.6	1.3	-40293.1	253.8	-244506.6
	0.0	3420.8	0.8	-39065.1	170.9	-233418.4
	0.0	4167.8	4.5	-50154.7	916.9	-333449.5
	0.0	4085.0	4.1	-48926.6	834.0	-322361.2
	0.0	4066.8	4.0	-48651.5	817.2	-319836.7
	0.0	3984.0	3.6	-47423.5	734.2	-308748.4
	0.0	2390.3	-4.2	-23757.1	-859.2	-95843.0
	0.0	2307.4	-4.7	-22529.1	-942.1	-84754.7
	0.0	2289.3	-4.7	-22253.9	-958.9	-82230.2
	0.0	2206.5	-5.1	-21025.9	-1041.9	-71141.9
	0.0	2953.4	-1.5	-32115.5	-295.9	-171173.0
	0.0	2870.6	-1.9	-30887.4	-378.8	-160084.8
	0.0	2852.5	-2.0	-30612.3	-395.6	-157560.2
	0.0	2769.6	-2.4	-29384.3	-478.6	-146472.0
205.	0.0	468.5	1.7	-31296.5	-2.7	144234.3
	0.0	364.2	1.3	-29768.3	-2.1	136239.5
	0.0	341.8	1.2	-29437.8	-2.0	134619.2
	0.0	237.6	0.8	-27909.6	-1.4	126624.4
	0.0	1177.8	4.5	-41704.7	-7.2	198715.5
	0.0	1073.6	4.1	-40176.6	-6.6	190720.6
	0.0	1051.2	4.0	-39846.0	-6.5	189100.4
	0.0	946.9	3.6	-38317.9	-5.8	181105.5
	0.0	-1061.7	-4.2	-8819.9	6.8	26536.7
	0.0	-1166.0	-4.6	-7291.8	7.4	18541.8
	0.0	-1188.4	-4.7	-6961.2	7.5	16921.6
	0.0	-1292.7	-5.1	-5433.1	8.1	8926.7
	0.0	-352.4	-1.5	-19228.2	2.3	81017.8
	0.0	-456.6	-1.9	-17700.0	2.9	73022.9
	0.0	-479.1	-1.9	-17369.5	3.0	71402.7
	0.0	-583.3	-2.4	-15841.3	3.7	63407.8
409.	0.0	-1859.2	1.7	-22561.9	-359.2	-10431.2
	0.0	-1982.0	1.3	-20647.4	-274.9	-41966.4
	0.0	-2008.2	1.3	-20242.8	-257.9	-48618.1
	0.0	-2131.0	0.8	-18328.3	-173.7	-80153.3
	0.0	-1023.2	4.5	-35607.1	-931.6	204248.0
	0.0	-1146.0	4.1	-33692.7	-847.3	172712.8
	0.0	-1172.1	4.0	-33288.0	-830.3	166061.1
	0.0	-1295.0	3.6	-31373.6	-746.1	134525.9
	0.0	-3663.2	-4.2	5619.8	873.0	-473769.1
	0.0	-3786.0	-4.7	7534.2	957.2	-505304.4
	0.0	-3812.2	-4.7	7938.9	974.2	-511956.0
	0.0	-3935.0	-5.1	9853.3	1058.5	-543491.2
	0.0	-2827.2	-1.5	-7425.5	300.6	-259089.9
	0.0	-2950.0	-1.9	-5511.0	384.8	-290625.1
	0.0	-2976.1	-2.0	-5106.4	401.8	-297276.8

	0.0	-3099.0	-2.4	-3191.9	486.1	-328812.0
Asta	36	nod1	16	35		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2452.4	3.5	-41346.0	412.8	-127551.8
	0.0	2423.0	2.7	-40729.7	316.0	-136171.4
	0.0	2415.7	2.5	-40567.9	296.5	-137865.9
	0.0	2386.3	1.7	-39951.5	199.7	-146485.5
	0.0	2651.8	9.2	-45515.1	1070.7	-68733.4
	0.0	2622.3	8.4	-44898.7	973.9	-77353.0
	0.0	2615.1	8.2	-44736.9	954.3	-79047.5
	0.0	2585.6	7.4	-44120.5	857.6	-87667.1
	0.0	2024.2	-8.6	-32395.4	-1003.5	-254778.7
	0.0	1994.8	-9.5	-31779.0	-1100.3	-263398.2
	0.0	1987.5	-9.6	-31617.2	-1119.9	-265092.7
	0.0	1958.1	-10.5	-31000.8	-1216.7	-273712.3
	0.0	2223.6	-3.0	-36564.4	-345.7	-195960.3
	0.0	2194.1	-3.8	-35948.0	-442.4	-204579.8
	0.0	2186.9	-4.0	-35786.2	-462.0	-206274.3
	0.0	2157.4	-4.8	-35169.8	-558.8	-214893.9
108.	0.0	1482.0	3.5	-37487.5	28.4	84163.3
	0.0	1457.6	2.7	-36636.6	21.7	72480.6
	0.0	1451.4	2.5	-36429.1	20.5	70032.8
	0.0	1427.0	1.7	-35578.2	13.8	58350.1
	0.0	1647.6	9.2	-43256.5	74.0	163725.2
	0.0	1623.1	8.4	-42405.6	67.3	152042.5
	0.0	1617.0	8.2	-42198.1	66.2	149594.8
	0.0	1592.5	7.4	-41347.3	59.5	137912.1
	0.0	1126.6	-8.6	-25076.5	-69.2	-87620.1
	0.0	1102.2	-9.4	-24225.6	-75.9	-99302.8
	0.0	1096.0	-9.6	-24018.1	-77.0	-101750.6
	0.0	1071.6	-10.4	-23167.3	-83.7	-113433.3
	0.0	1292.2	-3.0	-30845.5	-23.5	-8058.2
	0.0	1267.7	-3.8	-29994.7	-30.2	-19740.9
	0.0	1261.6	-4.0	-29787.2	-31.4	-22188.6
	0.0	1237.1	-4.8	-28936.3	-38.0	-33871.3
217.	0.0	683.4	3.5	-34234.8	-356.0	200179.3
	0.0	681.4	2.7	-33135.6	-272.6	186887.5
	0.0	680.0	2.5	-32879.0	-255.4	183997.8
	0.0	678.1	1.7	-31779.9	-172.0	170705.9
	0.0	695.5	9.2	-41697.0	-922.4	290590.2
	0.0	693.6	8.4	-40597.9	-839.1	277298.4
	0.0	692.1	8.2	-40341.3	-821.8	274408.6
	0.0	690.2	7.4	-39242.1	-738.4	261116.8
	0.0	658.9	-8.6	-18162.9	865.0	5189.7
	0.0	656.9	-9.4	-17063.8	948.4	-8102.1
	0.0	655.5	-9.6	-16807.1	965.6	-10991.9
	0.0	653.6	-10.4	-15708.0	1049.0	-24283.7
	0.0	671.0	-3.0	-25625.1	298.6	95600.5
	0.0	669.1	-3.8	-24526.0	382.0	82308.7
	0.0	667.7	-4.0	-24269.4	399.2	79418.9
	0.0	665.7	-4.8	-23170.3	482.6	66127.1
Asta	38	nod1	37	38		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-477.0	0.8	22588.7	5.8	566100.4
	0.0	-500.1	0.6	20046.1	4.4	568515.5
	0.0	-505.4	0.6	19564.5	4.2	569011.0
	0.0	-528.5	0.4	17021.9	2.8	571426.1
	0.0	-319.5	2.1	39930.6	15.2	549632.3
	0.0	-342.7	1.9	37388.0	13.8	552047.4
	0.0	-348.0	1.8	36906.4	13.5	552542.9
	0.0	-371.1	1.6	34363.8	12.1	554958.0
	0.0	-816.7	-1.9	-14923.8	-14.2	601705.6
	0.0	-839.8	-2.1	-17466.5	-15.6	604120.7
	0.0	-845.1	-2.1	-17948.1	-15.9	604616.2
	0.0	-868.2	-2.3	-20490.7	-17.3	607031.3
	0.0	-659.2	-0.7	2418.0	-4.9	585237.5
	0.0	-682.4	-0.8	-124.6	-6.3	587652.6
	0.0	-687.7	-0.9	-606.2	-6.5	588148.1
	0.0	-710.8	-1.1	-3148.8	-7.9	590563.2
171.	0.0	-3159.0	0.8	29658.4	-129.9	265358.9
	0.0	-3182.5	0.6	27264.0	-99.4	263800.0
	0.0	-3188.0	0.6	26808.0	-93.2	263378.1
	0.0	-3211.5	0.4	24413.6	-62.7	261819.2
	0.0	-2999.0	2.1	45987.7	-336.8	275934.7
	0.0	-3022.5	1.9	43593.3	-306.3	274375.9
	0.0	-3028.0	1.8	43137.4	-300.1	273954.0
	0.0	-3051.5	1.7	40743.0	-269.6	272395.1
	0.0	-3504.1	-1.9	-5660.2	315.7	242614.5
	0.0	-3527.7	-2.1	-8054.7	346.2	241055.7
	0.0	-3533.1	-2.2	-8510.6	352.4	240633.8
	0.0	-3556.6	-2.4	-10905.0	382.9	239074.9
	0.0	-3344.2	-0.7	10669.1	108.7	253190.4
	0.0	-3367.7	-0.9	8274.7	139.2	251631.5
	0.0	-3373.1	-0.9	7818.8	145.4	251209.6
	0.0	-3396.6	-1.1	5424.3	175.9	249650.8
342.	0.0	-6734.1	0.8	37904.5	-268.0	-566523.4
	0.0	-6758.2	0.6	35563.3	-205.0	-572171.2
	0.0	-6763.8	0.6	35114.9	-192.2	-573548.3
	0.0	-6787.9	0.4	32773.7	-129.2	-579196.2

	0.0	-6570.1	2.1	53869.1	-695.2	-528129.8
	0.0	-6594.2	1.9	51527.9	-632.2	-533777.7
	0.0	-6599.9	1.9	51079.5	-619.4	-535154.8
	0.0	-6624.0	1.7	48738.3	-556.5	-540802.6
	0.0	-7087.7	-2.0	3378.8	651.5	-649267.7
	0.0	-7111.8	-2.2	1037.7	714.5	-654915.6
	0.0	-7117.4	-2.2	589.2	727.3	-656292.7
	0.0	-7141.5	-2.4	-1751.9	790.3	-661940.5
	0.0	-6923.7	-0.7	19343.4	224.3	-610874.2
	0.0	-6947.8	-0.9	17002.2	287.3	-616522.0
	0.0	-6953.5	-0.9	16553.8	300.1	-617899.2
	0.0	-6977.6	-1.1	14212.7	363.1	-623547.0
Asta	39	nod	4	39		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	1425.1	0.6	1303.9	181.6	63455.5
	0.0	1427.2	0.4	-1693.5	139.1	66703.0
	0.0	1427.0	0.4	-2392.8	130.3	67451.3
	0.0	1429.2	0.3	-5390.2	87.7	70698.9
	0.0	1410.0	1.5	21707.3	470.9	41340.5
	0.0	1412.1	1.4	18709.9	428.4	44588.1
	0.0	1411.9	1.3	18010.6	419.6	45336.4
	0.0	1414.1	1.2	15013.2	377.0	48583.9
	0.0	1458.2	-1.4	-42710.7	-441.4	111191.3
	0.0	1460.4	-1.5	-45708.1	-484.0	114438.9
	0.0	1460.2	-1.6	-46407.4	-492.8	115187.2
	0.0	1462.4	-1.7	-49404.8	-535.4	118434.7
	0.0	1443.1	-0.5	-22307.4	-152.1	89076.4
	0.0	1445.3	-0.6	-25304.8	-194.7	92323.9
	0.0	1445.1	-0.6	-26004.0	-203.5	93072.2
	0.0	1447.3	-0.8	-29001.4	-246.1	96319.8
112.	0.0	-436.1	0.6	-3822.6	116.9	121126.5
	0.0	-437.2	0.4	-6653.3	89.5	124482.5
	0.0	-438.2	0.4	-7315.7	83.9	125168.9
	0.0	-439.3	0.3	-10146.4	56.5	128524.9
	0.0	-428.9	1.5	15445.1	303.2	98251.7
	0.0	-430.0	1.4	12614.4	275.8	101607.7
	0.0	-431.0	1.3	11952.0	270.1	102294.1
	0.0	-432.1	1.2	9121.3	242.7	105650.1
	0.0	-451.3	-1.4	-45385.6	-284.2	170561.2
	0.0	-452.4	-1.5	-48216.2	-311.6	173917.2
	0.0	-453.4	-1.6	-48878.7	-317.3	174603.6
	0.0	-454.5	-1.7	-51709.3	-344.7	177959.6
	0.0	-444.0	-0.5	-26117.9	-97.9	147686.4
	0.0	-445.1	-0.6	-28948.5	-125.3	151042.4
	0.0	-446.2	-0.6	-29611.0	-131.0	151728.8
	0.0	-447.3	-0.8	-32441.6	-158.4	155084.8
225.	0.0	-2535.1	0.6	-9015.6	52.6	-43633.3
	0.0	-2545.0	0.4	-11728.7	40.3	-40841.4
	0.0	-2547.8	0.4	-12365.8	37.8	-40347.7
	0.0	-2557.7	0.3	-15079.0	25.4	-37555.8
	0.0	-2467.2	1.5	9451.4	136.5	-62683.6
	0.0	-2477.2	1.3	6738.2	124.2	-59891.6
	0.0	-2479.9	1.3	6101.1	121.6	-59398.0
	0.0	-2489.9	1.2	3388.0	109.3	-56606.0
	0.0	-2681.3	-1.4	-48849.3	-127.9	-2408.4
	0.0	-2691.3	-1.5	-51562.4	-140.3	383.5
	0.0	-2694.0	-1.5	-52199.5	-142.8	877.2
	0.0	-2704.0	-1.7	-54912.7	-155.1	3669.1
	0.0	-2613.4	-0.5	-30382.3	-44.1	-21458.7
	0.0	-2623.4	-0.6	-33095.4	-56.4	-18666.7
	0.0	-2626.1	-0.6	-33732.6	-58.9	-18173.1
	0.0	-2636.1	-0.8	-36445.7	-71.3	-15381.1
Asta	40	nod	39	40		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-2535.1	3.2	-43823.7	52.6	8039.7
	0.0	-2545.0	2.5	-41092.9	40.3	10814.5
	0.0	-2547.8	2.3	-40613.6	37.8	11462.4
	0.0	-2557.7	1.6	-37882.9	25.4	14237.2
	0.0	-2467.2	8.3	-62457.1	136.5	-10847.8
	0.0	-2477.2	7.6	-59726.4	124.2	-8073.0
	0.0	-2479.9	7.4	-59247.0	121.6	-7425.1
	0.0	-2489.9	6.7	-56516.3	109.3	-4650.3
	0.0	-2681.3	-7.8	-3497.9	-127.9	48783.4
	0.0	-2691.3	-8.6	-767.2	-140.3	51558.1
	0.0	-2694.0	-8.7	-287.8	-142.8	52206.1
	0.0	-2704.0	-9.5	2442.9	-155.1	54980.8
	0.0	-2613.4	-2.7	-22131.3	-44.1	29895.9
	0.0	-2623.4	-3.5	-19400.6	-56.4	32670.7
	0.0	-2626.1	-3.6	-18921.3	-58.9	33318.6
	0.0	-2636.1	-4.4	-16190.5	-71.3	36093.4
115.	0.0	-4995.4	3.2	-39937.2	-317.7	-421242.3
	0.0	-5015.2	2.5	-37061.2	-243.2	-420228.0
	0.0	-5019.9	2.3	-36553.8	-228.0	-420011.2
	0.0	-5039.7	1.6	-33677.7	-153.5	-418996.8
	0.0	-4860.5	8.4	-59561.0	-823.7	-428150.9
	0.0	-4880.3	7.6	-56685.0	-749.2	-427136.5
	0.0	-4884.9	7.5	-56177.6	-734.0	-426919.7
	0.0	-4904.8	6.7	-53301.6	-659.5	-425905.4
	0.0	-5286.5	-7.8	2529.5	772.0	-406331.2

	0.0	-5306.3	-8.6	5405.6	846.5	-405316.8
	0.0	-5310.9	-8.7	5913.0	861.8	-405100.1
	0.0	-5330.8	-9.5	8789.0	936.3	-404085.7
	0.0	-5151.6	-2.7	-17094.3	266.0	-413239.7
	0.0	-5171.4	-3.5	-14218.3	340.5	-412225.4
	0.0	-5176.0	-3.6	-13710.9	355.8	-412008.6
	0.0	-5195.9	-4.4	-10834.8	430.3	-410994.3
230.	0.0	-7761.2	3.2	-36775.5	-689.3	-1152901.0
	0.0	-7786.2	2.5	-33702.0	-527.7	-1154508.6
	0.0	-7791.8	2.3	-33157.3	-494.6	-1154887.2
	0.0	-7816.8	1.6	-30083.8	-333.0	-1156494.9
	0.0	-7590.7	8.4	-57746.0	-1787.2	-1141957.7
	0.0	-7615.7	7.6	-54672.4	-1625.5	-1143565.4
	0.0	-7621.3	7.5	-54127.7	-1592.5	-1143944.0
	0.0	-7646.3	6.7	-51054.2	-1430.8	-1145551.6
	0.0	-8129.1	-7.9	8602.9	1675.0	-1176517.0
	0.0	-8154.2	-8.6	11676.4	1836.6	-1178124.7
	0.0	-8159.7	-8.8	12221.1	1869.7	-1178503.3
	0.0	-8184.8	-9.5	15294.6	2031.3	-1180111.0
	0.0	-7958.7	-2.7	-12367.5	577.1	-1165573.8
	0.0	-7983.7	-3.5	-9294.0	738.8	-1167181.4
	0.0	-7989.3	-3.6	-8749.3	771.8	-1167560.0
	0.0	-8014.3	-4.4	-5675.8	933.5	-1169167.7
Asta	41	nod	40	37		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	8633.0	1.1	13957.8	429.0	-1145208.4
	0.0	8610.5	0.9	12305.8	328.4	-1137049.7
	0.0	8605.1	0.8	11978.9	307.8	-1135209.9
	0.0	8582.6	0.6	10326.9	207.3	-1127051.2
	0.0	8786.5	3.0	25207.4	1112.3	-1200783.0
	0.0	8764.0	2.7	23555.4	1011.7	-1192624.3
	0.0	8758.6	2.7	23228.6	991.1	-1190784.5
	0.0	8736.1	2.4	21576.6	890.5	-1182625.8
	0.0	8301.7	-2.8	-10331.6	-1042.5	-1025216.6
	0.0	8279.1	-3.1	-11983.6	-1143.0	-1017057.9
	0.0	8273.8	-3.1	-12310.5	-1163.6	-1015218.1
	0.0	8251.2	-3.4	-13962.5	-1264.2	-1007059.4
	0.0	8455.2	-1.0	918.1	-359.2	-1080791.2
	0.0	8432.6	-1.2	-733.9	-459.8	-1072632.5
	0.0	8427.3	-1.3	-1060.8	-480.4	-1070792.7
	0.0	8404.7	-1.6	-2712.8	-581.0	-1062634.0
246.	0.0	3216.0	1.1	20774.2	152.1	279008.0
	0.0	3193.4	0.8	19550.9	116.4	281459.4
	0.0	3188.2	0.8	19303.7	109.1	281977.4
	0.0	3165.6	0.5	18080.4	73.5	284428.9
	0.0	3370.0	2.8	29099.7	394.4	262303.6
	0.0	3347.4	2.6	27876.4	358.7	264755.0
	0.0	3342.2	2.5	27629.2	351.4	265273.0
	0.0	3319.6	2.3	26405.9	315.7	267724.4
	0.0	2883.5	-2.7	2809.9	-369.6	315091.0
	0.0	2860.9	-2.9	1586.6	-405.3	317542.5
	0.0	2855.7	-3.0	1339.4	-412.6	318060.5
	0.0	2833.1	-3.2	116.1	-448.2	320511.9
	0.0	3037.5	-0.9	11135.5	-127.3	298386.6
	0.0	3014.9	-1.2	9912.2	-163.0	300838.0
	0.0	3009.8	-1.2	9664.9	-170.3	301356.0
	0.0	2987.1	-1.5	8441.6	-206.0	303807.5
491.	0.0	-585.1	1.1	29258.8	-112.4	578589.0
	0.0	-607.1	0.8	28366.0	-86.1	575620.9
	0.0	-612.1	0.8	28178.4	-80.7	574900.6
	0.0	-634.1	0.5	27285.6	-54.3	571932.5
	0.0	-435.7	2.8	35328.6	-291.4	598783.6
	0.0	-457.6	2.5	34435.8	-265.1	595815.6
	0.0	-462.7	2.5	34248.3	-259.7	595095.2
	0.0	-484.6	2.2	33355.5	-233.3	592127.2
	0.0	-907.5	-2.6	16177.1	273.2	535029.8
	0.0	-929.5	-2.8	15284.3	299.5	532061.7
	0.0	-934.5	-2.9	15096.8	304.9	531341.4
	0.0	-956.5	-3.1	14204.0	331.2	528373.3
	0.0	-758.1	-0.9	22247.0	94.1	555224.4
	0.0	-780.1	-1.1	21354.2	120.5	552256.4
	0.0	-785.1	-1.2	21166.6	125.9	551536.0
	0.0	-807.1	-1.4	20273.8	152.2	548568.0
Asta	42	nod	37	41		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-108.1	-2.0	-12496.1	-118.2	6655.1
	0.0	-107.0	-1.5	-7114.9	-90.5	8311.2
	0.0	-106.7	-1.4	-5899.9	-84.8	8606.9
	0.0	-105.6	-1.0	-518.7	-57.1	10263.0
	0.0	-116.1	-5.1	-49145.5	-306.6	-4660.1
	0.0	-115.0	-4.6	-43764.4	-278.9	-3004.0
	0.0	-114.7	-4.6	-42549.3	-273.2	-2708.3
	0.0	-113.6	-4.1	-37168.1	-245.5	-1052.2
	0.0	-90.9	4.8	66639.3	287.4	31179.5
	0.0	-89.7	5.2	72020.5	315.1	32835.7
	0.0	-89.5	5.3	73235.6	320.8	33131.3
	0.0	-88.3	5.8	78616.7	348.5	34787.5
	0.0	-98.9	1.6	29989.9	99.0	19864.4
	0.0	-97.7	2.1	35371.1	126.7	21520.5

30.	0.0	-97.5	2.2	36586.1	132.4	21816.2
	0.0	-96.3	2.7	41967.3	160.2	23472.3
	0.0	-539.7	-2.0	-12920.6	-59.1	-3021.3
	0.0	-538.8	-1.5	-7534.9	-45.3	-1333.1
	0.0	-538.7	-1.4	-6318.8	-42.4	-1031.1
	0.0	-537.8	-1.0	-933.0	-28.5	657.1
	0.0	-545.6	-5.1	-49601.5	-153.3	-14554.8
	0.0	-544.7	-4.6	-44215.8	-139.4	-12866.6
	0.0	-544.6	-4.6	-42999.7	-136.6	-12564.6
	0.0	-543.7	-4.1	-37613.9	-122.7	-10876.4
	0.0	-526.9	4.8	66282.8	143.7	21975.0
	0.0	-526.0	5.2	71668.6	157.6	23663.2
	0.0	-525.9	5.3	72884.6	160.4	23965.2
	0.0	-525.0	5.8	78270.4	174.3	25653.5
	0.0	-532.8	1.6	29601.9	49.5	10441.5
	0.0	-532.0	2.1	34987.7	63.4	12129.7
	0.0	-531.8	2.2	36203.7	66.2	12431.7
	0.0	-530.9	2.7	41589.5	80.1	14119.9
	0.0	-990.0	-2.0	-13361.3	0.0	-25932.9
	0.0	-990.0	-1.5	-7964.2	0.0	-24230.3
	0.0	-990.0	-1.4	-6745.7	0.0	-23925.5
	0.0	-990.0	-1.0	-1348.5	0.0	-22222.8
	0.0	-990.0	-5.1	-50119.4	0.0	-37565.0
	0.0	-990.0	-4.6	-44722.3	0.0	-35862.3
	0.0	-990.0	-4.6	-43503.8	0.0	-35557.5
	0.0	-990.0	-4.1	-38106.7	0.0	-33854.9
	0.0	-990.0	4.8	66009.0	0.0	-723.5
	0.0	-990.0	5.2	71406.1	0.0	979.1
	0.0	-990.0	5.3	72624.6	0.0	1283.9
	0.0	-990.0	5.8	78021.7	0.0	2986.6
	0.0	-990.0	1.6	29250.8	0.0	-12355.6
	0.0	-990.0	2.1	34648.0	0.0	-10652.9
	0.0	-990.0	2.2	35866.5	0.0	-10348.1
	0.0	-990.0	2.7	41263.6	0.0	-8645.5
Asta PROGR. 0.	43	nod	43	42	MY	MZ
	NORM	TY	TZ	TORS	YY	ZZ
	0.0	2640.0	2.5	16162.5	542.3	-102832.5
	0.0	2634.0	1.9	12807.5	415.4	-103824.5
	0.0	2632.1	1.8	12137.6	388.9	-103925.0
	0.0	2626.2	1.2	8782.5	262.0	-104917.1
	0.0	2680.5	6.5	39025.9	1405.1	-96063.4
	0.0	2674.6	5.9	35670.8	1278.2	-97055.4
	0.0	2672.7	5.8	35000.9	1251.7	-97155.9
	0.0	2666.7	5.2	31645.8	1124.8	-98147.9
	0.0	2552.5	-6.1	-33244.5	-1316.7	-117504.5
	0.0	2546.5	-6.7	-36599.5	-1443.6	-118496.5
	0.0	2544.6	-6.8	-37269.4	-1470.1	-118597.0
	0.0	2538.7	-7.4	-40624.5	-1597.0	-119589.1
	0.0	2593.0	-2.1	-10381.1	-453.9	-110735.4
	0.0	2587.1	-2.7	-13736.2	-580.8	-111727.4
	0.0	2585.2	-2.8	-14406.1	-607.3	-111827.9
	0.0	2579.2	-3.4	-17761.2	-734.2	-112819.9
	0.0	119.7	2.5	7523.0	71.2	158990.9
	0.0	123.1	1.9	4418.6	54.7	157891.1
	0.0	123.1	1.8	3798.6	50.8	157633.3
	0.0	126.5	1.2	694.2	34.3	156533.5
	0.0	96.5	6.5	28678.0	183.9	166499.2
	0.0	99.9	5.9	25573.5	167.4	165399.5
	0.0	99.9	5.8	24953.6	163.5	165141.7
	0.0	103.3	5.2	21849.1	147.0	164041.9
	0.0	170.2	-6.1	-38191.1	-172.0	142756.1
	0.0	173.6	-6.7	-41295.6	-188.5	141656.3
	0.0	173.6	-6.8	-41915.5	-192.4	141398.6
	0.0	177.0	-7.4	-45020.0	-208.9	140298.8
	0.0	146.9	-2.1	-17036.2	-59.3	150264.5
	0.0	150.4	-2.7	-20140.6	-75.8	149164.7
	0.0	150.3	-2.8	-20760.5	-79.7	148906.9
	0.0	153.8	-3.4	-23865.0	-96.2	147807.1
	375.	-2670.2	2.5	-758.9	-397.9	-74692.1
	0.0	-2664.8	1.9	-3760.3	-304.5	-74859.6
	0.0	-2664.4	1.8	-4359.7	-285.9	-75102.6
	0.0	-2659.0	1.2	-7361.1	-192.4	-75270.0
	0.0	-2707.3	6.5	19693.3	-1032.2	-73535.4
	0.0	-2701.9	5.9	16691.9	-938.8	-73702.9
	0.0	-2701.5	5.8	16092.5	-920.2	-73945.9
	0.0	-2696.0	5.2	13091.1	-826.8	-74113.4
	0.0	-2589.9	-6.1	-44953.2	968.0	-77156.8
	0.0	-2584.5	-6.7	-47954.7	1061.4	-77324.3
	0.0	-2584.1	-6.8	-48554.0	1080.0	-77567.3
	0.0	-2578.7	-7.4	-51555.5	1173.5	-77734.8
	0.0	-2627.0	-2.1	-24501.0	333.7	-76000.2
	0.0	-2621.5	-2.7	-27502.4	427.1	-76167.6
	0.0	-2621.1	-2.8	-28101.8	445.7	-76410.6
	0.0	-2615.7	-3.4	-31103.2	539.1	-76578.1
Asta PROGR. 0.	44	nod	44	43	MY	MZ
	NORM	TY	TZ	TORS	YY	ZZ
	0.0	2194.9	2.0	-54161.9	488.2	4380.4
	0.0	2202.0	1.6	-53281.8	373.7	8493.9
	0.0	2202.9	1.5	-53094.9	350.1	9503.7

	0.0	2210.0	1.0	-52214.8	235.5	13617.2
	0.0	2146.9	5.3	-60163.8	1265.8	-23671.1
	0.0	2153.9	4.8	-59283.7	1151.2	-19557.6
	0.0	2154.9	4.7	-59096.8	1127.6	-18547.8
	0.0	2162.0	4.2	-58216.7	1013.1	-14434.3
	0.0	2298.7	-4.9	-41188.2	-1186.1	64969.4
	0.0	2305.7	-5.4	-40308.1	-1300.6	69083.0
	0.0	2306.7	-5.5	-40121.3	-1324.2	70092.7
	0.0	2313.7	-6.0	-39241.2	-1438.8	74206.2
	0.0	2250.6	-1.7	-47190.1	-408.5	36918.0
	0.0	2257.7	-2.2	-46310.0	-523.1	41031.5
	0.0	2258.6	-2.3	-46123.1	-546.7	42041.2
	0.0	2265.7	-2.8	-45243.0	-661.2	46154.8
248.	0.0	33.3	2.0	-53901.9	-13.6	283181.8
	0.0	14.6	1.5	-52779.2	-10.5	285138.4
	0.0	10.2	1.4	-52546.2	-9.7	285578.8
	0.0	-8.5	1.0	-51423.4	-6.6	287535.4
	0.0	161.1	5.2	-61557.4	-34.8	269852.1
	0.0	142.4	4.8	-60434.7	-31.8	271808.7
	0.0	138.0	4.7	-60201.6	-30.9	272249.1
	0.0	119.3	4.2	-59078.9	-27.9	274205.7
	0.0	-242.8	-4.9	-37354.0	32.6	311955.6
	0.0	-261.6	-5.4	-36231.2	35.6	313912.2
	0.0	-265.9	-5.5	-35998.2	36.5	314352.5
	0.0	-284.7	-5.9	-34875.5	39.5	316309.2
	0.0	-115.0	-1.7	-45009.4	11.3	298625.9
	0.0	-133.8	-2.2	-43886.7	14.4	300582.5
	0.0	-138.1	-2.3	-43653.7	15.2	301022.8
	0.0	-156.9	-2.7	-42531.0	18.3	302979.5
496.	0.0	-2652.3	2.0	-58048.0	-516.5	-22478.4
	0.0	-2667.2	1.6	-56590.8	-395.6	-25261.4
	0.0	-2670.9	1.5	-56292.6	-370.2	-25930.0
	0.0	-2685.7	1.0	-54835.4	-249.3	-28713.0
	0.0	-2551.0	5.3	-67982.8	-1338.4	-3488.9
	0.0	-2565.8	4.8	-66525.6	-1217.5	-6271.9
	0.0	-2569.5	4.7	-66227.4	-1192.0	-6940.5
	0.0	-2584.4	4.2	-64770.3	-1071.1	-9723.5
	0.0	-2871.3	-5.0	-36573.1	1253.9	-63530.0
	0.0	-2886.2	-5.4	-35116.0	1374.8	-66313.0
	0.0	-2889.9	-5.5	-34817.7	1400.2	-66981.6
	0.0	-2904.7	-6.0	-33360.6	1521.1	-69764.7
	0.0	-2769.9	-1.7	-46507.9	432.1	-44540.5
	0.0	-2784.8	-2.2	-45050.8	553.0	-47323.5
	0.0	-2788.5	-2.3	-44752.5	578.4	-47992.1
	0.0	-2803.3	-2.8	-43295.4	699.3	-50775.2
Asta	45	nod1	45	44		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2242.9	1.9	67445.9	469.4	-85994.1
	0.0	2314.6	1.4	67033.8	359.2	-94180.7
	0.0	2329.8	1.4	66900.0	336.5	-95823.9
	0.0	2401.6	0.9	66487.9	226.3	-104010.5
	0.0	1754.0	4.9	70241.5	1216.9	-30235.0
	0.0	1825.8	4.4	69829.4	1106.8	-38421.6
	0.0	1841.0	4.4	69695.7	1084.0	-40064.8
	0.0	1912.7	3.9	69283.5	973.9	-48251.4
	0.0	3298.4	-4.6	61443.8	-1140.2	-206406.4
	0.0	3370.2	-5.0	61031.6	-1250.3	-214593.0
	0.0	3385.3	-5.1	60897.9	-1273.1	-216236.1
	0.0	3457.1	-5.6	60485.8	-1383.2	-224422.8
	0.0	2809.6	-1.6	64239.4	-392.6	-150647.2
	0.0	2881.3	-2.0	63827.3	-502.8	-158833.9
	0.0	2896.5	-2.1	63693.5	-525.5	-160477.0
	0.0	2968.3	-2.6	63281.4	-635.7	-168663.6
250.	0.0	7.7	1.9	62030.9	1.0	188037.1
	0.0	37.2	1.4	61971.6	0.8	192382.6
	0.0	43.0	1.3	61913.8	0.7	193320.2
	0.0	72.6	0.9	61854.6	0.5	197665.7
	0.0	-193.7	4.8	62423.0	2.4	158434.8
	0.0	-164.1	4.4	62363.8	2.2	162780.2
	0.0	-158.4	4.3	62306.0	2.1	163717.9
	0.0	-128.8	3.9	62246.7	1.9	168063.3
	0.0	442.6	-4.5	61215.7	-2.2	251965.8
	0.0	472.2	-5.0	61156.5	-2.4	256311.2
	0.0	478.0	-5.1	61098.7	-2.6	257248.9
	0.0	507.5	-5.5	61039.4	-2.7	261594.3
	0.0	241.2	-1.6	61607.8	-0.8	222363.4
	0.0	270.8	-2.0	61548.6	-1.0	226708.9
	0.0	276.6	-2.1	61490.8	-1.1	227646.6
	0.0	306.2	-2.5	61431.6	-1.3	231992.0
500.	0.0	-2096.2	1.9	61757.4	-467.3	-71144.5
	0.0	-2105.8	1.4	62046.1	-357.5	-64192.1
	0.0	-2108.4	1.4	62069.8	-335.1	-62832.8
	0.0	-2118.0	0.9	62358.5	-225.3	-55880.3
	0.0	-2030.6	4.9	59778.6	-1211.9	-118491.0
	0.0	-2040.2	4.4	60067.3	-1102.1	-111538.6
	0.0	-2042.7	4.4	60091.0	-1079.7	-110179.2
	0.0	-2052.3	3.9	60379.7	-969.9	-103226.8
	0.0	-2238.1	-4.6	66065.1	1135.6	31112.4
	0.0	-2247.7	-5.0	66353.8	1245.3	38064.8
	0.0	-2250.2	-5.1	66377.6	1267.8	39424.2

	0.0	-2259.9	-5.6	66666.3	1377.5	46376.6
	0.0	-2172.4	-1.6	64086.3	391.0	-16234.1
	0.0	-2182.0	-2.0	64375.0	500.7	-9281.6
	0.0	-2184.6	-2.1	64398.8	523.2	-7922.3
	0.0	-2194.2	-2.6	64687.5	632.9	-969.9
Asta	46	nod1	45	4		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	1001.3	3.2	121474.4	535.3	96282.6
	0.0	943.7	2.5	123226.3	409.7	103618.6
	0.0	931.9	2.3	123627.8	383.6	105193.8
	0.0	874.3	1.5	125379.8	258.1	112529.7
	0.0	1393.9	8.3	109540.2	1387.6	46315.9
	0.0	1336.2	7.6	111292.2	1262.1	53651.9
	0.0	1324.4	7.4	111693.7	1236.0	55227.0
	0.0	1266.8	6.7	113445.7	1110.4	62563.0
	0.0	153.6	-7.8	147238.8	-1300.1	204164.5
	0.0	96.0	-8.6	148990.8	-1425.6	211500.5
	0.0	84.2	-8.7	149392.3	-1451.7	213075.7
	0.0	26.5	-9.5	151144.3	-1577.2	220411.7
	0.0	546.1	-2.7	135304.7	-447.7	154197.8
	0.0	488.5	-3.4	137056.7	-573.3	161533.8
	0.0	476.7	-3.6	137458.2	-599.3	163109.0
	0.0	419.1	-4.3	139210.2	-724.9	170444.9
132.	0.0	-463.2	3.2	120696.5	110.5	135845.0
	0.0	-538.8	2.5	122473.3	84.5	134241.3
	0.0	-554.7	2.3	122877.4	79.1	133956.0
	0.0	-630.3	1.5	124654.1	53.2	132352.3
	0.0	51.7	8.3	108593.3	286.3	146772.8
	0.0	-23.9	7.6	110370.1	260.4	145169.2
	0.0	-39.8	7.4	110774.2	255.0	144883.8
	0.0	-115.4	6.6	112551.0	229.1	143280.2
	0.0	-1575.1	-7.8	146827.2	-268.2	112224.6
	0.0	-1650.7	-8.5	148604.0	-294.1	110620.9
	0.0	-1666.6	-8.7	149008.1	-299.5	110335.6
	0.0	-1742.2	-9.4	150784.8	-325.4	108731.9
	0.0	-1060.2	-2.7	134724.0	-92.3	123152.4
	0.0	-1135.8	-3.4	136500.8	-118.2	121548.8
	0.0	-1151.7	-3.6	136904.9	-123.6	121263.4
	0.0	-1227.3	-4.3	138681.7	-149.5	119659.8
265.	0.0	-2319.8	3.2	122818.2	-313.6	-43861.1
	0.0	-2402.9	2.5	124662.4	-240.1	-56106.5
	0.0	-2420.5	2.3	125078.9	-224.8	-58635.3
	0.0	-2503.6	1.5	126923.1	-151.3	-70880.7
	0.0	-1753.7	8.3	110255.3	-813.0	39556.0
	0.0	-1836.8	7.5	112099.5	-739.5	27310.6
	0.0	-1854.3	7.4	112515.9	-724.3	24781.8
	0.0	-1937.4	6.6	114360.1	-650.7	12536.4
	0.0	-3542.4	-7.8	149942.9	761.9	-224013.7
	0.0	-3625.5	-8.5	151787.1	835.5	-236259.1
	0.0	-3643.1	-8.7	152203.5	850.7	-238787.9
	0.0	-3726.2	-9.4	154047.8	924.2	-251033.3
	0.0	-2976.2	-2.7	137379.9	262.5	-140596.6
	0.0	-3059.4	-3.4	139224.1	336.0	-152842.0
	0.0	-3076.9	-3.6	139640.6	351.3	-155370.9
	0.0	-3160.0	-4.3	141484.8	424.8	-167616.2
Asta	47	nod1	4	46		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	1558.3	4.5	-33400.4	307.4	69918.3
	0.0	1571.4	3.4	-30484.9	235.3	62060.9
	0.0	1573.6	3.2	-29952.1	220.4	60453.5
	0.0	1586.7	2.2	-27036.5	148.4	52596.1
	0.0	1469.1	11.6	-53284.8	797.1	123452.5
	0.0	1482.2	10.6	-50369.3	725.0	115595.1
	0.0	1484.4	10.4	-49836.4	710.1	113987.7
	0.0	1497.5	9.3	-46920.9	638.0	106130.3
	0.0	1751.3	-10.9	9601.2	-747.2	-45718.7
	0.0	1764.4	-12.0	12516.7	-819.3	-53576.0
	0.0	1766.6	-12.2	13049.6	-834.2	-55183.4
	0.0	1779.7	-13.2	15965.1	-906.3	-63040.8
	0.0	1662.1	-3.8	-10283.2	-257.6	7815.5
	0.0	1675.2	-4.8	-7367.7	-329.6	-41.8
	0.0	1677.4	-5.0	-6834.8	-344.5	-1649.2
	0.0	1690.5	-6.1	-3919.3	-416.6	-9506.6
108.	0.0	-270.9	4.5	-30743.2	-175.0	141891.3
	0.0	-253.0	3.4	-27731.7	-133.9	135593.8
	0.0	-249.7	3.2	-27180.6	-125.5	134262.0
	0.0	-231.7	2.2	-24169.2	-84.4	127964.5
	0.0	-393.1	11.6	-51281.1	-454.0	184786.6
	0.0	-375.2	10.6	-48269.7	-412.9	178489.1
	0.0	-371.9	10.4	-47718.5	-404.5	177157.3
	0.0	-353.9	9.3	-44707.1	-363.4	170859.8
	0.0	-6.7	-10.9	13671.1	425.8	49265.2
	0.0	11.3	-12.0	16682.6	466.9	42967.7
	0.0	14.6	-12.2	17233.7	475.3	41635.9
	0.0	32.5	-13.2	20245.1	516.4	35338.4
	0.0	-128.9	-3.8	-6866.8	146.8	92160.5
	0.0	-111.0	-4.8	-3855.4	187.9	85863.0
	0.0	-107.6	-5.0	-3304.2	196.4	84531.2
	0.0	-89.7	-6.1	-292.8	237.5	78233.7

215.	0.0	-2428.8	4.5	-28574.4	-658.0	-139.4
	0.0	-2392.9	3.4	-25419.2	-503.6	-3671.8
	0.0	-2385.6	3.2	-24841.0	-471.8	-4459.8
	0.0	-2349.8	2.2	-21685.8	-317.4	-7992.2
	0.0	-2673.1	11.7	-50092.2	-1706.4	23910.8
	0.0	-2637.2	10.6	-46937.1	-1552.1	20378.3
	0.0	-2629.9	10.4	-46358.8	-1520.2	19590.3
	0.0	-2594.1	9.3	-43203.7	-1365.9	16057.9
	0.0	-1901.1	-10.9	17958.3	1600.1	-52042.8
	0.0	-1865.2	-12.0	21113.5	1754.5	-55575.2
	0.0	-1857.9	-12.2	21691.7	1786.3	-56363.2
	0.0	-1822.0	-13.3	24846.8	1940.7	-59895.7
	0.0	-2145.4	-3.8	-3559.5	551.7	-27992.7
	0.0	-2109.5	-4.8	-404.4	706.0	-31525.1
	0.0	-2102.2	-5.0	173.8	737.9	-32313.1
	0.0	-2066.3	-6.1	3329.0	892.2	-35845.5
Asta	48	odi	47	48		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-4095.7	-0.3	-7991.0	-94.6	352438.6
	0.0	-4103.2	-0.2	-8038.4	-72.2	354287.9
	0.0	-4105.4	-0.2	-8038.8	-67.9	354777.0
	0.0	-4112.9	-0.1	-8086.3	-45.5	356626.3
	0.0	-4044.1	-0.7	-7678.0	-246.4	339758.8
	0.0	-4051.6	-0.7	-7725.5	-224.0	341608.1
	0.0	-4053.8	-0.7	-7725.8	-219.7	342097.2
	0.0	-4061.3	-0.6	-7773.3	-197.3	343946.5
	0.0	-4204.4	0.7	-8685.8	230.9	379211.7
	0.0	-4211.9	0.8	-8733.3	253.3	381061.0
	0.0	-4214.0	0.8	-8733.7	257.6	381550.1
	0.0	-4221.5	0.8	-8781.2	280.0	383399.4
	0.0	-4152.8	0.2	-8372.9	79.1	366531.9
	0.0	-4160.3	0.3	-8420.4	101.5	368381.2
	0.0	-4162.4	0.3	-8420.7	105.8	368870.3
	0.0	-4170.0	0.4	-8468.2	128.2	370719.6
333.	0.0	73.4	-0.3	-8300.3	-2.4	-274683.9
	0.0	69.8	-0.2	-8346.5	-1.8	-274592.8
	0.0	69.0	-0.2	-8347.7	-1.7	-274581.6
	0.0	65.3	-0.1	-8394.0	-1.2	-274490.5
	0.0	98.1	-0.7	-7994.4	-6.2	-275297.0
	0.0	94.5	-0.6	-8040.7	-5.6	-275205.9
	0.0	93.6	-0.6	-8041.9	-5.6	-275194.6
	0.0	90.0	-0.6	-8088.1	-5.0	-275103.5
	0.0	21.2	0.7	-8977.1	5.9	-273360.9
	0.0	17.6	0.7	-9023.3	6.4	-273269.9
	0.0	16.7	0.7	-9024.5	6.5	-273258.6
	0.0	13.1	0.8	-9070.8	7.0	-273167.5
	0.0	45.8	0.2	-8671.2	2.0	-273974.0
	0.0	42.2	0.3	-8717.4	2.6	-273882.9
	0.0	41.4	0.3	-8718.6	2.7	-273871.6
	0.0	37.8	0.4	-8764.9	3.2	-273780.5
665.	0.0	4246.5	-0.3	-9315.0	88.8	406241.7
	0.0	4237.2	-0.2	-9364.0	67.8	404345.1
	0.0	4235.3	-0.2	-9366.1	63.7	403936.1
	0.0	4225.9	-0.1	-9415.1	42.6	402039.5
	0.0	4310.0	-0.7	-8990.2	231.3	419161.6
	0.0	4300.7	-0.7	-9039.2	210.3	417265.0
	0.0	4298.8	-0.6	-9041.3	206.1	416856.0
	0.0	4289.4	-0.6	-9090.3	185.1	414959.4
	0.0	4111.2	0.7	-10031.2	-216.6	378740.5
	0.0	4101.9	0.7	-10080.2	-237.6	376843.9
	0.0	4099.9	0.8	-10082.4	-241.8	376434.9
	0.0	4090.6	0.8	-10131.3	-262.8	374538.3
	0.0	4174.7	0.2	-9706.4	-74.2	391660.4
	0.0	4165.4	0.3	-9755.4	-95.2	389763.8
	0.0	4163.4	0.3	-9757.6	-99.3	389354.8
	0.0	4154.1	0.4	-9806.5	-120.4	387458.2
Asta	49	odi	48	49		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-2211.1	-1.1	173.2	-156.5	226110.2
	0.0	-2217.8	-0.9	262.9	-119.5	227141.5
	0.0	-2219.4	-0.8	281.2	-111.9	227372.7
	0.0	-2226.1	-0.5	370.9	-74.9	228403.9
	0.0	-2165.0	-2.9	-437.9	-407.4	219081.7
	0.0	-2171.8	-2.6	-348.2	-370.4	220113.0
	0.0	-2173.3	-2.6	-329.9	-362.8	220344.2
	0.0	-2180.1	-2.3	-240.2	-325.8	221375.4
	0.0	-2309.0	2.7	1483.2	381.3	241061.3
	0.0	-2315.8	3.0	1572.9	418.3	242092.6
	0.0	-2317.3	3.0	1591.2	425.9	242323.8
	0.0	-2324.1	3.3	1680.9	462.9	243355.0
	0.0	-2263.0	0.9	872.2	130.4	234032.8
	0.0	-2269.7	1.2	961.8	167.4	235064.1
	0.0	-2271.3	1.3	980.1	175.0	235295.3
	0.0	-2278.0	1.5	1069.8	212.0	236326.5
140.	0.0	41.2	-1.1	-405.7	0.0	71808.2
	0.0	33.5	-0.9	-317.3	0.0	71806.3
	0.0	31.8	-0.8	-299.3	-0.1	71805.3
	0.0	24.2	-0.5	-210.9	-0.1	71803.4
	0.0	93.3	-2.9	-1008.0	0.0	71820.6

	0.0	85.7	-2.6	-919.6	0.0	71818.7
	0.0	83.9	-2.6	-901.6	-0.1	71817.7
	0.0	76.3	-2.3	-813.2	-0.1	71815.8
	0.0	-69.7	2.7	885.7	0.1	71781.6
	0.0	-77.4	3.0	974.1	0.1	71779.7
	0.0	-79.1	3.0	992.0	0.0	71778.7
	0.0	-86.7	3.3	1080.4	0.0	71776.8
	0.0	-17.6	0.9	283.3	0.1	71794.0
	0.0	-25.3	1.2	371.7	0.2	71792.1
	0.0	-27.0	1.2	389.7	0.0	71791.1
	0.0	-34.6	1.5	478.1	0.0	71789.2
280.	0.0	2286.1	-1.1	-990.9	156.5	237328.8
	0.0	2279.4	-0.9	-902.4	119.5	236299.1
	0.0	2278.0	-0.8	-884.5	111.7	236070.1
	0.0	2271.3	-0.5	-796.0	74.8	235040.4
	0.0	2331.6	-2.9	-1593.9	407.4	244344.5
	0.0	2324.9	-2.6	-1505.4	370.4	243314.8
	0.0	2323.5	-2.6	-1487.5	362.7	243085.8
	0.0	2316.8	-2.3	-1399.0	325.7	242056.1
	0.0	2189.3	2.7	301.9	-381.2	222403.7
	0.0	2182.6	3.0	390.4	-418.2	221374.0
	0.0	2181.1	3.0	408.4	-425.9	221145.0
	0.0	2174.5	3.3	496.9	-462.9	220115.3
	0.0	2234.8	0.9	-301.1	-130.3	229419.4
	0.0	2228.1	1.2	-212.6	-167.2	228389.7
	0.0	2226.6	1.3	-194.7	-175.0	228160.7
	0.0	2220.0	1.5	-106.2	-212.0	227131.0
Asta	50	nod	49	50		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-4174.4	-0.3	8974.7	-88.9	389454.8
	0.0	-4184.2	-0.2	8880.1	-67.9	391375.2
	0.0	-4186.4	-0.2	8856.7	-63.4	391799.3
	0.0	-4196.2	-0.1	8762.1	-42.4	393719.8
	0.0	-4107.3	-0.7	9611.7	-231.3	376371.4
	0.0	-4117.2	-0.7	9517.1	-210.3	378291.8
	0.0	-4119.4	-0.6	9493.6	-205.8	378715.9
	0.0	-4129.2	-0.6	9399.0	-184.9	380636.4
	0.0	-4317.2	0.7	7587.8	216.4	417303.1
	0.0	-4327.1	0.7	7493.2	237.4	419223.6
	0.0	-4329.3	0.8	7469.8	241.9	419647.7
	0.0	-4339.1	0.8	7375.2	262.9	421568.2
	0.0	-4250.2	0.2	8224.8	74.0	404219.7
	0.0	-4260.0	0.3	8130.2	95.0	406140.2
	0.0	-4262.2	0.3	8106.7	99.5	406564.3
	0.0	-4272.1	0.4	8012.1	120.5	408484.8
333.	0.0	-33.2	-0.3	7913.5	2.4	-275563.6
	0.0	-36.4	-0.2	7816.7	1.8	-275706.2
	0.0	-37.1	-0.2	7792.5	1.7	-275740.7
	0.0	-40.3	-0.1	7695.6	1.2	-275883.3
	0.0	-11.1	-0.7	8565.5	6.2	-274595.7
	0.0	-14.3	-0.6	8468.6	5.6	-274738.4
	0.0	-15.0	-0.6	8444.4	5.5	-274772.9
	0.0	-18.3	-0.6	8347.6	5.0	-274915.5
	0.0	-80.0	0.7	6493.8	-5.8	-277644.0
	0.0	-83.2	0.7	6397.0	-6.4	-277786.6
	0.0	-83.9	0.7	6372.7	-6.5	-277821.1
	0.0	-87.1	0.8	6275.9	-7.1	-277963.8
	0.0	-57.9	0.2	7145.7	-2.0	-276676.1
	0.0	-61.1	0.3	7048.9	-2.6	-276818.8
	0.0	-61.8	0.3	7024.6	-2.7	-276853.3
	0.0	-65.1	0.4	6927.8	-3.3	-276995.9
665.	0.0	4233.1	-0.3	7524.9	94.8	379992.3
	0.0	4228.2	-0.2	7417.6	72.4	378588.4
	0.0	4227.2	-0.2	7390.5	67.6	378299.4
	0.0	4222.3	-0.1	7283.2	45.3	376895.5
	0.0	4267.1	-0.7	8247.2	246.4	389603.1
	0.0	4262.2	-0.7	8139.9	224.1	388199.1
	0.0	4261.2	-0.7	8112.8	219.3	387910.2
	0.0	4256.2	-0.6	8005.5	197.0	386506.2
	0.0	4162.1	0.7	5951.7	-230.7	359759.3
	0.0	4157.1	0.8	5844.4	-253.0	358355.4
	0.0	4156.2	0.8	5817.3	-257.8	358066.4
	0.0	4151.2	0.8	5710.0	-280.2	356662.5
	0.0	4196.0	0.2	6674.0	-79.0	369370.0
	0.0	4191.1	0.3	6566.7	-101.4	367966.1
	0.0	4190.1	0.3	6539.5	-106.1	367677.2
	0.0	4185.2	0.4	6432.2	-128.5	366273.2
Asta	51	nod	51	52		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	6176.1	0.6	63102.1	233.4	-345843.2
	0.0	6174.7	0.5	63376.5	178.7	-345171.4
	0.0	6173.9	0.4	63425.4	166.9	-344847.5
	0.0	6172.5	0.3	63699.9	112.2	-344175.7
	0.0	6185.7	1.6	61221.1	604.7	-350338.8
	0.0	6184.3	1.4	61495.5	549.9	-349667.1
	0.0	6183.5	1.4	61544.4	538.2	-349343.1
	0.0	6182.1	1.3	61818.8	483.5	-348671.3
	0.0	6155.8	-1.5	67207.8	-566.2	-336339.6
	0.0	6154.4	-1.6	67482.2	-620.9	-335667.8

	0.0	6153.7	-1.7	67531.1	-632.6	-335343.8
	0.0	6152.2	-1.8	67805.5	-687.4	-334672.1
	0.0	6165.4	-0.5	65326.8	-194.9	-340835.2
	0.0	6164.0	-0.7	65601.2	-249.6	-340163.5
	0.0	6163.3	-0.7	65650.1	-261.4	-339839.5
	0.0	6161.8	-0.8	65924.5	-316.1	-339167.7
220.	0.0	1702.9	0.6	63883.5	100.2	498432.4
	0.0	1703.0	0.5	64186.6	76.7	498892.8
	0.0	1702.4	0.4	64241.8	71.7	499068.6
	0.0	1702.5	0.3	64544.9	48.2	499529.0
	0.0	1702.1	1.5	61807.1	259.6	495328.5
	0.0	1702.2	1.4	62110.1	236.1	495788.9
	0.0	1701.6	1.4	62165.4	231.1	495964.7
	0.0	1701.7	1.2	62468.5	207.6	496425.1
	0.0	1705.5	-1.4	68412.4	-243.1	505048.3
	0.0	1705.6	-1.6	68715.5	-266.6	505508.8
	0.0	1705.0	-1.6	68770.7	-271.6	505684.5
	0.0	1705.1	-1.7	69073.8	-295.1	506145.0
	0.0	1704.7	-0.5	66336.0	-83.7	501944.4
	0.0	1704.8	-0.6	66639.0	-107.2	502404.9
	0.0	1704.2	-0.7	66694.3	-112.2	502580.6
	0.0	1704.3	-0.8	66997.3	-135.7	503041.1
440.	0.0	-1984.7	0.6	68809.9	-27.8	464493.5
	0.0	-1980.5	0.4	69161.3	-21.3	465394.2
	0.0	-1980.0	0.4	69226.4	-19.9	465567.5
	0.0	-1975.8	0.3	69577.8	-13.3	466468.1
	0.0	-2013.6	1.5	66403.3	-72.0	458334.8
	0.0	-2009.4	1.4	66754.7	-65.5	459235.5
	0.0	-2008.9	1.3	66819.9	-64.1	459408.8
	0.0	-2004.7	1.2	67171.2	-57.6	460309.4
	0.0	-1921.4	-1.4	74055.8	67.3	477861.2
	0.0	-1917.3	-1.5	74407.2	73.9	478761.8
	0.0	-1916.8	-1.6	74472.4	75.3	478935.1
	0.0	-1912.6	-1.7	74823.7	81.8	479835.8
	0.0	-1950.3	-0.5	71649.2	23.1	471702.5
	0.0	-1946.1	-0.6	72000.6	29.7	472603.1
	0.0	-1945.6	-0.6	72065.8	31.1	472776.4
	0.0	-1941.5	-0.8	72417.2	37.6	473677.1
Asta	52	nod1	52	53		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-2674.3	1.9	-28031.6	-47.1	519764.6
	0.0	-2677.8	1.5	-27099.5	-36.0	519925.9
	0.0	-2678.9	1.4	-26909.2	-33.8	519953.4
	0.0	-2682.4	0.9	-25977.1	-22.7	520114.7
	0.0	-2650.5	4.9	-34407.2	-122.2	518660.0
	0.0	-2654.0	4.5	-33475.1	-111.1	518821.3
	0.0	-2655.2	4.4	-33284.8	-108.8	518848.8
	0.0	-2658.7	3.9	-32352.7	-97.8	519010.1
	0.0	-2725.2	-4.6	-14169.1	114.4	522160.4
	0.0	-2728.7	-5.0	-13237.0	125.5	522321.7
	0.0	-2729.9	-5.1	-13046.6	127.8	522349.2
	0.0	-2733.4	-5.6	-12114.5	138.8	522510.5
	0.0	-2701.4	-1.6	-20544.7	39.4	521055.8
	0.0	-2705.0	-2.0	-19612.6	50.5	521217.1
	0.0	-2706.1	-2.1	-19422.2	52.7	521244.6
	0.0	-2709.6	-2.6	-18490.1	63.8	521405.9
103.	0.0	-4577.0	1.9	-24842.9	-243.3	147527.5
	0.0	-4578.2	1.5	-23876.4	-186.4	147446.0
	0.0	-4578.8	1.4	-23679.2	-174.0	147377.0
	0.0	-4580.0	0.9	-22712.7	-117.0	147295.5
	0.0	-4569.3	4.9	-31453.3	-630.2	148059.7
	0.0	-4570.5	4.5	-30486.8	-573.3	147978.2
	0.0	-4571.2	4.4	-30289.6	-560.8	147909.3
	0.0	-4572.3	3.9	-29323.1	-503.9	147827.8
	0.0	-4593.1	-4.6	-10469.9	590.5	146434.5
	0.0	-4594.2	-5.1	-9503.5	647.5	146353.0
	0.0	-4594.9	-5.2	-9306.2	659.9	146284.1
	0.0	-4596.1	-5.6	-8339.7	716.8	146202.6
	0.0	-4585.4	-1.6	-17080.3	203.7	146966.8
	0.0	-4586.5	-2.0	-16113.9	260.6	146885.3
	0.0	-4587.2	-2.1	-15916.6	273.0	146816.4
	0.0	-4588.4	-2.6	-14950.1	330.0	146734.8
207.	0.0	-6815.2	1.9	-22019.3	-440.2	-438441.5
	0.0	-6813.8	1.5	-21004.3	-337.3	-438513.0
	0.0	-6813.9	1.4	-20797.2	-314.6	-438629.8
	0.0	-6812.5	0.9	-19782.2	-211.7	-438701.3
	0.0	-6824.9	4.9	-28961.7	-1139.9	-437999.5
	0.0	-6823.5	4.5	-27946.7	-1037.0	-438071.0
	0.0	-6823.6	4.4	-27739.6	-1014.3	-438187.8
	0.0	-6822.2	3.9	-26724.6	-911.4	-438259.3
	0.0	-6793.5	-4.6	-6924.7	1068.1	-439289.3
	0.0	-6792.1	-5.1	-5909.7	1171.0	-439360.8
	0.0	-6792.2	-5.2	-5702.5	1193.7	-439477.6
	0.0	-6790.8	-5.6	-4687.5	1296.6	-439549.1
	0.0	-6803.2	-1.6	-13867.0	368.4	-438847.3
	0.0	-6801.8	-2.0	-12852.0	471.3	-438918.8
	0.0	-6801.9	-2.1	-12644.9	494.0	-439035.6
	0.0	-6800.5	-2.6	-11629.9	596.9	-439107.1
Asta	53	nod1	53	54		

PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4389.4	3.0	-29246.1	489.8	-497659.6
	0.0	4378.9	2.3	-29703.2	375.5	-496040.9
	0.0	4376.3	2.1	-29798.7	350.0	-495626.6
	0.0	4365.8	1.4	-30255.9	235.6	-494007.8
	0.0	4460.8	7.7	-26128.0	1267.8	-508674.0
	0.0	4450.3	7.0	-26585.1	1153.4	-507055.3
	0.0	4447.7	6.9	-26680.6	1127.9	-506641.0
	0.0	4437.2	6.2	-27137.8	1013.6	-505022.3
	0.0	4235.5	-7.2	-35965.0	-1187.7	-473928.1
	0.0	4225.0	-7.9	-36422.1	-1302.1	-472309.4
	0.0	4222.4	-8.1	-36517.6	-1327.6	-471895.1
	0.0	4211.9	-8.8	-36974.8	-1441.9	-470276.4
	0.0	4306.9	-2.5	-32846.9	-409.8	-484942.6
	0.0	4296.4	-3.2	-33304.0	-524.2	-483323.8
	0.0	4293.7	-3.3	-33399.5	-549.6	-482909.5
	0.0	4283.2	-4.0	-33856.6	-664.0	-481290.8
162.	0.0	383.4	3.0	-25750.8	7.8	-105551.6
	0.0	376.9	2.3	-26127.5	5.8	-105295.8
	0.0	375.1	2.1	-26206.7	5.6	-105237.9
	0.0	368.7	1.4	-26583.4	3.7	-104982.0
	0.0	427.1	7.7	-23183.0	20.8	-107300.0
	0.0	420.7	7.0	-23559.7	18.8	-107044.1
	0.0	418.9	6.9	-23638.9	18.7	-106986.3
	0.0	412.5	6.2	-24015.6	16.7	-106730.4
	0.0	289.3	-7.2	-31272.5	-19.7	-101777.3
	0.0	282.9	-7.9	-31649.2	-21.7	-101521.5
	0.0	281.1	-8.1	-31728.4	-21.9	-101463.6
	0.0	274.6	-8.8	-32105.1	-23.8	-101207.7
	0.0	333.1	-2.5	-28704.7	-6.7	-103525.7
	0.0	326.6	-3.2	-29081.4	-8.7	-103269.9
	0.0	324.9	-3.3	-29160.6	-8.8	-103212.0
	0.0	318.4	-4.0	-29537.3	-10.8	-102956.1
323.	0.0	-3957.4	3.0	-23171.2	-474.2	-391589.7
	0.0	-3960.6	2.3	-23480.8	-363.8	-392099.9
	0.0	-3961.6	2.1	-23546.6	-338.7	-392271.8
	0.0	-3964.8	1.4	-23856.2	-228.2	-392782.0
	0.0	-3936.0	7.7	-21062.4	-1225.9	-388149.3
	0.0	-3939.2	7.0	-21372.0	-1115.4	-388659.5
	0.0	-3940.3	6.9	-21437.8	-1090.3	-388831.4
	0.0	-3943.4	6.2	-21747.4	-979.9	-389341.6
	0.0	-4002.7	-7.2	-27692.1	1147.9	-398911.2
	0.0	-4005.9	-7.9	-28001.7	1258.4	-399421.4
	0.0	-4007.0	-8.1	-28067.5	1283.5	-399593.3
	0.0	-4010.2	-8.8	-28377.1	1394.0	-400103.5
	0.0	-3981.3	-2.5	-25583.3	396.3	-395470.8
	0.0	-3984.5	-3.2	-25892.9	506.7	-395981.0
	0.0	-3985.6	-3.3	-25958.7	531.8	-396152.9
	0.0	-3988.8	-4.0	-26268.3	642.3	-396663.1
Asta	54	nodt	54	55		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4521.8	2.9	-6934.6	467.1	-354650.9
	0.0	4511.5	2.2	-7798.5	358.4	-353091.8
	0.0	4508.9	2.1	-7979.6	332.6	-352682.2
	0.0	4498.5	1.4	-8843.5	223.8	-351123.2
	0.0	4592.2	7.5	-1031.7	1207.5	-365256.6
	0.0	4581.9	6.8	-1895.6	1098.7	-363697.5
	0.0	4579.3	6.7	-2076.7	1072.9	-363288.0
	0.0	4568.9	6.0	-2940.6	964.2	-361728.9
	0.0	4369.8	-7.0	-19691.6	-1129.2	-331819.6
	0.0	4359.5	-7.7	-20555.5	-1238.0	-330260.5
	0.0	4356.8	-7.8	-20736.6	-1263.8	-329851.0
	0.0	4346.5	-8.5	-21600.5	-1372.5	-328291.9
	0.0	4440.2	-2.4	-13788.7	-388.9	-342425.3
	0.0	4429.8	-3.1	-14652.6	-497.6	-340866.2
	0.0	4427.2	-3.2	-14833.7	-523.4	-340456.7
	0.0	4416.9	-3.9	-15697.6	-632.2	-338897.6
162.	0.0	60.0	2.9	-4900.1	-1.7	16265.2
	0.0	52.0	2.2	-5718.2	-1.4	16361.8
	0.0	49.9	2.1	-5890.3	-0.4	16395.0
	0.0	41.9	1.4	-6708.4	-0.2	16491.6
	0.0	114.2	7.5	688.8	-3.3	15611.4
	0.0	106.2	6.8	-129.3	-3.1	15708.0
	0.0	104.1	6.6	-301.3	-2.1	15741.2
	0.0	96.2	6.0	-1119.4	-1.8	15837.8
	0.0	-56.8	-7.0	-16968.9	1.8	17632.9
	0.0	-64.7	-7.7	-17787.0	2.1	17729.5
	0.0	-66.8	-7.8	-17959.1	3.1	17762.6
	0.0	-74.8	-8.5	-18777.2	3.3	17859.3
	0.0	-2.5	-2.4	-11380.0	0.2	16979.1
	0.0	-10.5	-3.1	-12198.1	0.4	17075.7
	0.0	-12.6	-3.2	-12370.2	1.4	17108.9
	0.0	-20.6	-3.9	-13188.2	1.7	17205.5
323.	0.0	-4382.8	2.9	-3039.8	-468.4	-334204.0
	0.0	-4389.9	2.2	-3841.2	-359.1	-335307.5
	0.0	-4391.8	2.1	-4010.4	-331.6	-335592.8
	0.0	-4398.9	1.4	-4811.8	-222.4	-336696.3
	0.0	-4334.4	7.5	2433.9	-1212.1	-326696.8
	0.0	-4341.5	6.8	1632.5	-1102.8	-327800.3
	0.0	-4343.4	6.7	1463.3	-1075.3	-328085.6

	0.0	-4350.5	6.0	662.0	-966.1	-329189.2
	0.0	-4486.6	-7.0	-14849.6	1131.1	-350373.1
	0.0	-4493.7	-7.7	-15651.0	1240.4	-351476.6
	0.0	-4495.6	-7.8	-15820.2	1267.9	-351761.9
	0.0	-4502.7	-8.5	-16621.6	1377.1	-352865.5
	0.0	-4438.2	-2.4	-9375.9	387.5	-342865.9
	0.0	-4445.3	-3.1	-10177.3	496.7	-343969.5
	0.0	-4447.2	-3.2	-10346.5	524.2	-344254.7
	0.0	-4454.3	-3.9	-11147.9	633.5	-345358.3
Asta	55	nod	55	56		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4380.6	2.9	28394.1	469.7	-347985.5
	0.0	4373.5	2.2	27602.7	359.7	-346960.4
	0.0	4371.6	2.1	27431.2	332.3	-346678.8
	0.0	4364.5	1.4	26639.8	222.3	-345653.7
	0.0	4428.7	7.6	33798.3	1218.1	-354952.6
	0.0	4421.7	6.9	33006.9	1108.1	-353927.5
	0.0	4419.8	6.7	32835.4	1080.7	-353645.8
	0.0	4412.7	6.0	32044.0	970.7	-352620.7
	0.0	4277.2	-7.1	16795.8	-1136.3	-333087.7
	0.0	4270.2	-7.7	16004.4	-1246.2	-332062.6
	0.0	4268.3	-7.9	15832.9	-1273.7	-331780.9
	0.0	4261.2	-8.6	15041.5	-1383.7	-330755.8
	0.0	4325.4	-2.4	22200.0	-387.9	-340054.7
	0.0	4318.3	-3.1	21408.6	-497.8	-339029.6
	0.0	4316.4	-3.3	21237.1	-525.3	-338748.0
	0.0	4309.3	-3.9	20445.7	-635.3	-337722.9
162.	0.0	78.3	2.9	30714.4	-0.9	9714.3
	0.0	70.8	2.2	29910.8	-0.3	9580.2
	0.0	68.8	2.1	29736.0	-1.8	9553.2
	0.0	61.3	1.4	28932.5	-1.3	9419.1
	0.0	129.3	7.5	36200.3	-4.0	10633.4
	0.0	121.8	6.9	35396.8	-3.5	10499.4
	0.0	119.8	6.7	35222.0	-5.0	10472.3
	0.0	112.3	6.0	34418.4	-4.4	10338.3
	0.0	-30.7	-7.0	18951.0	4.9	7723.2
	0.0	-38.2	-7.7	18147.5	5.4	7589.1
	0.0	-40.2	-7.9	17972.7	4.0	7562.1
	0.0	-47.7	-8.6	17169.2	4.5	7428.1
	0.0	20.3	-2.4	24437.0	1.8	8642.3
	0.0	12.8	-3.1	23633.5	2.3	8508.3
	0.0	10.8	-3.2	23458.7	0.8	8481.2
	0.0	3.3	-3.9	22655.1	1.4	8347.2
323.	0.0	-3953.1	2.9	34127.5	-471.2	-308023.4
	0.0	-3962.5	2.2	33283.2	-360.2	-309502.8
	0.0	-3964.9	2.1	33098.9	-334.6	-309880.7
	0.0	-3974.2	1.4	32254.7	-223.5	-311360.1
	0.0	-3889.5	7.6	39890.4	-1226.0	-297947.2
	0.0	-3898.8	6.9	39046.2	-1115.0	-299426.6
	0.0	-3901.2	6.7	38861.9	-1089.4	-299804.5
	0.0	-3910.6	6.0	38017.6	-978.3	-301283.9
	0.0	-4088.8	-7.1	21780.6	1144.9	-329555.0
	0.0	-4098.2	-7.7	20936.3	1255.9	-331034.4
	0.0	-4100.6	-7.9	20752.0	1281.6	-331412.3
	0.0	-4109.9	-8.6	19907.8	1392.6	-332891.7
	0.0	-4025.2	-2.4	27543.5	390.1	-319478.8
	0.0	-4034.5	-3.1	26699.2	501.1	-320958.2
	0.0	-4036.9	-3.3	26514.9	526.8	-321336.1
	0.0	-4046.3	-3.9	25670.7	637.8	-322815.5
Asta	56	nod	56	49		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	5041.8	2.8	84302.2	458.2	-346141.4
	0.0	5039.9	2.1	84011.5	349.9	-345598.5
	0.0	5039.3	2.0	83956.5	326.1	-345448.6
	0.0	5037.3	1.3	83665.8	217.8	-344905.6
	0.0	5055.0	7.2	86284.1	1193.8	-349816.1
	0.0	5053.0	6.5	85993.4	1085.5	-349273.2
	0.0	5052.4	6.4	85938.4	1061.7	-349123.2
	0.0	5050.4	5.7	85647.7	953.4	-348580.3
	0.0	5013.2	-6.7	80019.7	-1115.6	-338230.1
	0.0	5011.2	-7.4	79728.9	-1223.9	-337687.2
	0.0	5010.6	-7.5	79674.0	-1247.7	-337537.3
	0.0	5008.6	-8.1	79383.2	-1356.0	-336994.3
	0.0	5026.3	-2.3	82001.6	-380.1	-341904.8
	0.0	5024.3	-2.9	81710.8	-488.3	-341361.9
	0.0	5023.7	-3.1	81655.9	-512.2	-341211.9
	0.0	5021.8	-3.7	81365.1	-620.4	-340669.0
162.	0.0	1408.7	2.7	89858.2	13.9	168914.3
	0.0	1404.1	2.1	89506.2	10.6	168935.9
	0.0	1402.8	2.0	89437.4	9.7	168936.2
	0.0	1398.2	1.3	89085.4	6.4	168957.8
	0.0	1440.2	7.2	92257.2	36.5	168774.6
	0.0	1435.6	6.5	91905.2	33.2	168796.2
	0.0	1434.3	6.4	91836.4	32.2	168796.5
	0.0	1429.7	5.7	91484.4	28.9	168818.1
	0.0	1341.1	-6.7	84691.3	-33.8	169201.8
	0.0	1336.4	-7.3	84339.3	-37.1	169223.3
	0.0	1335.2	-7.5	84270.5	-38.0	169223.7
	0.0	1330.5	-8.1	83918.5	-41.3	169245.2

	0.0	1372.6	-2.3	87090.3	-11.2	169062.1
	0.0	1368.0	-2.9	86738.3	-14.5	169083.6
	0.0	1366.7	-3.1	86669.5	-15.5	169084.0
	0.0	1362.1	-3.7	86317.5	-18.8	169105.6
323.	0.0	-1777.0	2.8	98609.6	-430.2	134081.1
	0.0	-1785.2	2.1	98183.9	-328.6	133075.9
	0.0	-1787.2	2.0	98098.8	-306.7	132810.7
	0.0	-1795.4	1.3	97673.1	-205.0	131805.5
	0.0	-1721.3	7.2	101511.0	-1120.3	140922.7
	0.0	-1729.5	6.5	101085.3	-1018.7	139917.4
	0.0	-1731.6	6.4	101000.2	-996.7	139652.2
	0.0	-1739.7	5.7	100574.5	-895.1	138647.0
	0.0	-1896.1	-6.7	92374.6	1047.5	119423.9
	0.0	-1904.2	-7.3	91948.8	1149.2	118418.6
	0.0	-1906.3	-7.5	91863.8	1171.1	118153.4
	0.0	-1914.5	-8.1	91438.0	1272.7	117148.2
	0.0	-1840.4	-2.3	95276.0	357.5	126265.4
	0.0	-1848.5	-2.9	94850.2	459.1	125260.2
	0.0	-1850.6	-3.1	94765.1	481.0	124995.0
	0.0	-1858.8	-3.7	94339.4	582.7	123989.8
Asta	57	nod	49	57		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2072.2	2.6	-107294.6	429.3	103632.1
	0.0	2065.6	2.0	-107807.5	327.9	104631.0
	0.0	2063.8	1.9	-107912.3	306.4	104889.4
	0.0	2057.2	1.2	-108425.2	205.0	105888.3
	0.0	2117.3	6.8	-103808.0	1116.8	96848.4
	0.0	2110.7	6.2	-104320.9	1015.4	97847.4
	0.0	2108.9	6.0	-104425.7	993.9	98105.8
	0.0	2102.3	5.4	-104938.6	892.5	99104.7
	0.0	1975.6	-6.4	-114759.4	-1044.7	118158.8
	0.0	1969.0	-7.0	-115272.2	-1146.0	119157.8
	0.0	1967.2	-7.1	-115377.1	-1167.5	119416.1
	0.0	1960.6	-7.7	-115890.0	-1268.9	120415.1
	0.0	2020.7	-2.2	-111272.8	-357.2	111375.2
	0.0	2014.0	-2.8	-111785.7	-458.5	112374.2
	0.0	2012.3	-2.9	-111890.5	-480.0	112632.5
	0.0	2005.6	-3.5	-112403.4	-581.4	113631.5
173.	0.0	-1110.8	2.6	-98234.8	-20.8	186134.3
	0.0	-1122.0	2.0	-98845.4	-15.9	185611.5
	0.0	-1124.8	1.9	-98971.5	-15.0	185483.5
	0.0	-1136.0	1.2	-99582.1	-10.1	184960.7
	0.0	-1034.7	6.8	-94082.8	-53.5	189692.4
	0.0	-1045.9	6.2	-94693.4	-48.6	189169.6
	0.0	-1048.7	6.0	-94819.4	-47.7	189041.5
	0.0	-1059.9	5.4	-95430.0	-42.8	188518.7
	0.0	-1273.6	-6.3	-107117.0	50.1	178522.6
	0.0	-1284.7	-7.0	-107727.6	55.0	177999.8
	0.0	-1287.5	-7.1	-107853.7	55.9	177871.8
	0.0	-1298.7	-7.7	-108464.3	60.8	177349.0
	0.0	-1197.5	-2.2	-102965.0	17.5	182080.7
	0.0	-1208.7	-2.8	-103575.6	22.3	181557.9
	0.0	-1211.4	-2.9	-103701.6	23.3	181429.8
	0.0	-1222.6	-3.5	-104312.2	28.1	180907.0
345.	0.0	-4357.3	2.6	-93143.3	-471.2	-283949.9
	0.0	-4373.9	2.0	-93876.3	-360.0	-286869.0
	0.0	-4377.9	1.9	-94028.7	-336.6	-287578.1
	0.0	-4394.5	1.3	-94761.6	-225.4	-290497.2
	0.0	-4244.3	6.8	-88158.0	-1224.8	-264094.8
	0.0	-4260.9	6.2	-88891.0	-1113.5	-267013.8
	0.0	-4264.9	6.1	-89043.3	-1090.2	-267722.9
	0.0	-4281.5	5.4	-89776.3	-978.9	-270642.0
	0.0	-4598.8	-6.4	-103801.7	1145.9	-326394.5
	0.0	-4615.4	-7.0	-104534.7	1257.1	-329313.6
	0.0	-4619.4	-7.1	-104687.1	1280.5	-330022.7
	0.0	-4636.0	-7.7	-105420.1	1391.7	-332941.7
	0.0	-4485.8	-2.2	-98816.4	392.4	-306539.4
	0.0	-4502.4	-2.8	-99549.4	503.6	-309458.4
	0.0	-4506.3	-2.9	-99701.8	527.0	-310167.5
	0.0	-4523.0	-3.5	-100434.8	638.2	-313086.6
Asta	58	nod	57	58		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4115.6	2.4	-44447.1	450.6	-288081.9
	0.0	4119.6	1.8	-42925.4	344.3	-289450.0
	0.0	4120.0	1.7	-42601.0	322.0	-289727.2
	0.0	4124.0	1.1	-41079.4	215.7	-291095.2
	0.0	4088.6	6.2	-54802.3	1170.2	-278766.5
	0.0	4092.5	5.7	-53280.6	1064.0	-280134.6
	0.0	4093.0	5.5	-52956.2	1041.6	-280411.7
	0.0	4096.9	5.0	-51434.6	935.3	-281779.8
	0.0	4172.7	-5.8	-22358.6	-1094.7	-307937.1
	0.0	4176.7	-6.4	-20837.0	-1201.0	-309305.2
	0.0	4177.1	-6.5	-20512.6	-1223.3	-309582.4
	0.0	4181.1	-7.1	-18990.9	-1329.6	-310950.4
	0.0	4145.7	-2.0	-32713.8	-375.1	-298621.7
	0.0	4149.6	-2.6	-31192.1	-481.3	-299989.8
	0.0	4150.1	-2.7	-30867.7	-503.7	-300266.9
	0.0	4154.0	-3.2	-29346.1	-610.0	-301635.0
170.	0.0	870.7	2.4	-42213.2	43.2	135490.5

	0.0	870.6	1.8	-40796.5	33.0	134413.8
	0.0	870.0	1.7	-40494.6	30.9	134126.0
	0.0	869.9	1.1	-39077.9	20.7	133049.3
	0.0	871.4	6.2	-51853.8	112.5	142803.1
	0.0	871.3	5.6	-50437.1	102.2	141726.4
	0.0	870.8	5.5	-50135.2	100.2	141438.5
	0.0	870.6	5.0	-48718.5	90.0	140361.8
	0.0	868.3	-5.8	-21648.4	-105.5	119810.2
	0.0	868.2	-6.4	-20231.7	-115.7	118733.5
	0.0	867.7	-6.5	-19929.8	-117.8	118445.7
	0.0	867.6	-7.1	-18513.1	-128.0	117369.0
	0.0	869.1	-2.0	-31289.0	-36.2	127122.8
	0.0	869.0	-2.6	-29872.3	-46.4	126046.1
	0.0	868.4	-2.7	-29570.4	-48.5	125758.2
	0.0	868.3	-3.2	-28153.7	-58.7	124681.5
340.	0.0	-2369.1	2.4	-41636.4	-363.4	8724.9
	0.0	-2370.1	1.8	-40269.1	-277.8	7496.1
	0.0	-2370.6	1.7	-39977.9	-259.6	7111.3
	0.0	-2371.6	1.1	-38610.5	-173.9	5882.5
	0.0	-2362.4	6.2	-50940.9	-943.2	17052.3
	0.0	-2363.4	5.7	-49573.5	-857.6	15823.5
	0.0	-2363.9	5.5	-49282.3	-839.3	15438.7
	0.0	-2364.9	5.0	-47915.0	-753.7	14209.9
	0.0	-2383.8	-5.8	-21788.0	881.7	-9214.1
	0.0	-2384.8	-6.4	-20420.6	967.4	-10442.9
	0.0	-2385.3	-6.5	-20129.4	985.6	-10827.6
	0.0	-2386.3	-7.1	-18762.1	1071.2	-12056.5
	0.0	-2377.1	-2.0	-31092.4	302.0	-886.6
	0.0	-2378.1	-2.6	-29725.1	387.6	-2115.4
	0.0	-2378.7	-2.7	-29433.9	405.8	-2500.2
	0.0	-2379.6	-3.2	-28066.5	491.5	-3729.0
Asta	59	nod	60	59		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4179.6	2.4	31343.6	449.7	-301298.1
	0.0	4168.7	1.8	32887.8	343.4	-299592.9
	0.0	4165.9	1.7	33218.1	322.2	-299216.0
	0.0	4155.0	1.1	34762.3	215.9	-297510.7
	0.0	4253.8	6.2	20835.5	1169.8	-312916.2
	0.0	4242.9	5.7	22379.7	1063.5	-311211.0
	0.0	4240.1	5.6	22710.0	1042.3	-310834.1
	0.0	4229.2	5.0	24254.2	936.0	-309128.9
	0.0	4021.5	-5.8	53759.8	-1095.5	-276531.5
	0.0	4010.6	-6.4	55304.0	-1201.9	-274826.2
	0.0	4007.8	-6.5	55634.3	-1223.0	-274449.3
	0.0	3997.0	-7.1	57178.5	-1329.3	-272744.1
	0.0	4095.8	-2.0	43251.8	-375.4	-288149.6
	0.0	4084.9	-2.6	44796.0	-481.7	-286444.3
	0.0	4082.1	-2.7	45126.3	-502.9	-286067.5
	0.0	4071.2	-3.2	46670.5	-609.2	-284362.2
170.	0.0	898.4	2.4	29998.0	43.4	129839.4
	0.0	892.0	1.8	31438.7	33.1	130096.4
	0.0	890.2	1.7	31746.9	31.1	130089.6
	0.0	883.8	1.1	33187.6	20.9	130346.7
	0.0	942.3	6.2	20194.7	112.6	128118.8
	0.0	935.9	5.6	21635.3	102.4	128375.9
	0.0	934.1	5.5	21943.6	100.4	128369.1
	0.0	927.7	5.0	23384.3	90.2	128626.2
	0.0	805.1	-5.8	50911.7	-105.4	133547.5
	0.0	798.7	-6.4	52352.3	-115.7	133804.6
	0.0	796.8	-6.5	52660.6	-117.6	133797.8
	0.0	790.4	-7.1	54101.2	-127.9	134054.9
	0.0	849.0	-2.0	41108.3	-36.2	131827.0
	0.0	842.6	-2.6	42549.0	-46.4	132084.1
	0.0	840.7	-2.7	42857.2	-48.4	132077.3
	0.0	834.3	-3.2	44297.9	-58.6	132334.4
340.	0.0	-2355.6	2.4	29830.1	-362.2	6233.3
	0.0	-2359.5	1.8	31223.8	-276.5	5647.0
	0.0	-2360.6	1.7	31522.1	-259.4	5373.3
	0.0	-2364.5	1.1	32915.8	-173.7	4787.0
	0.0	-2329.3	6.2	20346.6	-942.5	10292.3
	0.0	-2333.1	5.6	21740.3	-856.8	9706.0
	0.0	-2334.3	5.5	22038.5	-839.7	9432.3
	0.0	-2338.1	5.0	23432.3	-754.0	8846.0
	0.0	-2411.5	-5.8	50062.0	882.7	-2332.1
	0.0	-2415.3	-6.4	51455.7	968.4	-2918.4
	0.0	-2416.5	-6.5	51754.0	985.5	-3192.1
	0.0	-2420.3	-7.1	53147.7	1071.2	-3778.4
	0.0	-2385.1	-2.0	40578.5	302.4	1726.9
	0.0	-2389.0	-2.6	41972.2	388.1	1140.6
	0.0	-2390.2	-2.7	42270.5	405.2	866.9
	0.0	-2394.0	-3.2	43664.2	490.9	280.6
Asta	60	nod	48	60		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2042.9	2.6	110855.1	429.0	108188.4
	0.0	2042.9	2.0	110351.9	327.5	108135.4
	0.0	2042.4	1.9	110250.7	307.2	108142.0
	0.0	2042.4	1.3	109747.5	205.7	108089.0
	0.0	2043.3	6.8	114272.9	1116.5	108515.2
	0.0	2043.3	6.2	113769.7	1015.1	108462.1

	0.0	2042.8	6.1	113668.5	994.7	108468.8
	0.0	2042.7	5.4	113165.3	893.3	108415.8
	0.0	2042.3	-6.4	103534.8	-1045.5	107458.6
	0.0	2042.2	-7.0	103031.6	-1147.0	107405.6
	0.0	2041.7	-7.1	102930.4	-1167.3	107412.3
	0.0	2041.7	-7.7	102427.2	-1268.8	107359.3
	0.0	2042.6	-2.2	106952.6	-358.0	107785.4
	0.0	2042.6	-2.8	106449.4	-459.4	107732.4
	0.0	2042.1	-2.9	106348.2	-479.8	107739.1
	0.0	2042.1	-3.5	105845.0	-581.2	107686.0
173.	0.0	-1177.6	2.6	102671.2	-20.7	182505.5
	0.0	-1173.2	2.0	102070.6	-15.8	182814.5
	0.0	-1172.7	1.9	101948.3	-14.9	182861.5
	0.0	-1168.4	1.2	101347.8	-10.0	183170.5
	0.0	-1207.2	6.8	106752.0	-53.5	180402.8
	0.0	-1202.9	6.2	106151.5	-48.6	180711.9
	0.0	-1202.3	6.0	106029.2	-47.7	180758.8
	0.0	-1198.0	5.4	105428.7	-42.8	181067.9
	0.0	-1114.2	-6.3	93938.8	50.1	186998.2
	0.0	-1109.9	-7.0	93338.2	55.0	187307.2
	0.0	-1109.4	-7.1	93215.9	55.8	187354.2
	0.0	-1105.0	-7.7	92615.4	60.7	187663.2
	0.0	-1143.9	-2.2	98019.6	17.3	184895.5
	0.0	-1139.5	-2.8	97419.1	22.1	185204.5
	0.0	-1139.0	-2.9	97296.8	23.0	185251.5
345.	0.0	-1134.6	-3.5	96696.2	27.9	185560.5
	0.0	-4468.5	2.6	98634.7	-470.7	-302901.6
	0.0	-4459.0	2.0	97912.5	-359.4	-301399.7
	0.0	-4457.5	1.9	97764.2	-337.2	-301176.7
	0.0	-4448.0	1.3	97042.0	-225.9	-299674.7
	0.0	-4533.0	6.8	103543.4	-1224.5	-313089.0
	0.0	-4523.5	6.2	102821.3	-1113.2	-311587.0
	0.0	-4521.9	6.1	102672.9	-1091.1	-311364.0
	0.0	-4512.4	5.4	101950.8	-979.8	-309862.0
	0.0	-4330.9	-6.4	88137.4	1146.7	-281132.6
	0.0	-4321.4	-7.0	87415.3	1258.0	-279630.6
	0.0	-4319.8	-7.1	87266.9	1280.1	-279407.6
	0.0	-4310.3	-7.7	86544.8	1391.4	-277905.6
	0.0	-4395.3	-2.2	93046.1	392.9	-291319.9
	0.0	-4385.8	-2.8	92324.0	504.1	-289817.9
	0.0	-4384.3	-2.9	92175.6	526.3	-289594.9
	0.0	-4374.8	-3.5	91453.5	637.6	-288092.9
Asta	61	nod1	61	48		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	5030.9	2.7	-86329.2	457.2	-338221.4
	0.0	5027.2	2.1	-86638.3	348.8	-337820.0
	0.0	5026.2	2.0	-86700.3	325.8	-337702.8
	0.0	5022.5	1.3	-87009.4	217.3	-337301.5
	0.0	5056.1	7.2	-84227.2	1193.4	-340976.6
	0.0	5052.4	6.5	-84536.3	1084.9	-340575.2
	0.0	5051.4	6.4	-84598.4	1061.9	-340458.0
	0.0	5047.7	5.7	-84907.5	953.5	-340056.7
	0.0	4977.6	-6.7	-90867.2	-1115.6	-332354.1
	0.0	4973.9	-7.4	-91176.4	-1224.0	-331952.7
	0.0	4972.9	-7.5	-91238.4	-1247.0	-331835.5
	0.0	4969.2	-8.1	-91547.5	-1355.4	-331434.1
	0.0	5002.7	-2.3	-88765.3	-379.4	-335109.3
	0.0	4999.1	-2.9	-89074.4	-487.8	-334707.9
	0.0	4998.1	-3.1	-89136.5	-510.9	-334590.7
	0.0	4994.4	-3.7	-89445.6	-619.3	-334189.4
162.	0.0	1373.1	2.7	-91083.2	13.7	173093.0
	0.0	1372.2	2.1	-91452.5	10.3	173108.2
	0.0	1371.7	2.0	-91527.9	9.3	173107.4
	0.0	1370.8	1.3	-91897.2	6.0	173122.6
	0.0	1379.9	7.1	-88571.2	36.5	172982.4
	0.0	1378.9	6.5	-88940.4	33.1	172997.5
	0.0	1378.4	6.4	-89015.9	32.1	172996.8
	0.0	1377.5	5.7	-89385.2	28.8	173011.9
	0.0	1358.9	-6.7	-96490.7	-33.5	173359.0
	0.0	1358.0	-7.3	-96859.9	-36.8	173374.2
	0.0	1357.5	-7.5	-96935.4	-37.9	173373.4
	0.0	1356.6	-8.1	-97304.7	-41.2	173388.6
	0.0	1365.7	-2.3	-93978.6	-10.7	173248.4
	0.0	1364.7	-2.9	-94347.9	-14.0	173263.6
	0.0	1364.2	-3.1	-94423.4	-15.1	173262.8
	0.0	1363.3	-3.7	-94792.7	-18.4	173278.0
323.	0.0	-1841.2	2.7	-99076.2	-429.8	130264.6
	0.0	-1838.8	2.1	-99518.7	-328.1	130387.8
	0.0	-1838.6	2.0	-99610.3	-307.1	130377.3
	0.0	-1836.1	1.3	-100052.9	-205.4	130500.5
	0.0	-1857.6	7.2	-96064.7	-1120.0	129434.8
	0.0	-1855.2	6.5	-96507.3	-1018.2	129558.0
	0.0	-1854.9	6.4	-96598.9	-997.3	129547.5
	0.0	-1852.5	5.7	-97041.5	-895.6	129670.7
	0.0	-1806.4	-6.7	-105545.4	1048.1	132074.5
	0.0	-1803.9	-7.3	-105987.9	1149.9	132197.7
	0.0	-1803.7	-7.5	-106079.6	1170.8	132187.2
	0.0	-1801.3	-8.1	-106522.1	1272.5	132310.4
	0.0	-1822.7	-2.3	-102533.9	357.9	131244.7
	0.0	-1820.3	-2.9	-102976.5	459.7	131367.9

	0.0	-1820.0	-3.1	-103068.1	480.6	131357.4
	0.0	-1817.6	-3.7	-103510.7	582.3	131480.6
Asta	62	nod	62	61		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4287.7	2.9	-40209.5	468.0	-302820.2
	0.0	4289.2	2.2	-41048.3	358.0	-302879.8
	0.0	4289.4	2.1	-41230.4	332.0	-302895.1
	0.0	4290.9	1.4	-42069.2	222.0	-302954.7
	0.0	4277.5	7.6	-34483.1	1216.1	-302407.2
	0.0	4279.0	6.9	-35321.8	1106.2	-302466.8
	0.0	4279.2	6.7	-35503.9	1080.2	-302482.1
	0.0	4280.7	6.0	-36342.7	970.2	-302541.7
	0.0	4309.8	-7.1	-52471.2	-1135.6	-303660.7
	0.0	4311.3	-7.7	-53310.0	-1245.5	-303720.3
	0.0	4311.5	-7.9	-53492.0	-1271.5	-303735.6
	0.0	4312.9	-8.6	-54330.8	-1381.5	-303795.2
	0.0	4299.6	-2.4	-46744.7	-387.4	-303247.7
	0.0	4301.1	-3.1	-47583.5	-497.4	-303307.3
	0.0	4301.3	-3.2	-47765.5	-523.4	-303322.6
	0.0	4302.8	-3.9	-48604.3	-633.3	-303382.2
162.	0.0	-60.9	2.9	-41148.7	-1.2	35624.4
	0.0	-59.1	2.2	-41995.9	-0.6	35814.5
	0.0	-58.8	2.1	-42180.2	-1.8	35838.5
	0.0	-56.9	1.4	-43027.4	-1.2	36028.7
	0.0	-73.6	7.5	-35365.4	-4.7	34326.9
	0.0	-71.8	6.9	-36212.5	-4.1	34517.1
	0.0	-71.4	6.7	-36396.9	-5.3	34541.0
	0.0	-69.6	6.0	-37244.0	-4.7	34731.2
	0.0	-33.9	-7.0	-53523.5	5.2	38464.6
	0.0	-32.1	-7.7	-54370.7	5.8	38654.8
	0.0	-31.8	-7.9	-54555.0	4.6	38678.8
	0.0	-29.9	-8.6	-55402.2	5.1	38868.9
	0.0	-46.6	-2.4	-47740.2	1.7	37167.2
	0.0	-44.8	-3.1	-48587.4	2.3	37357.3
	0.0	-44.4	-3.2	-48771.7	1.0	37381.3
	0.0	-42.6	-3.9	-49618.9	1.6	37571.5
323.	0.0	-4119.7	2.9	-43552.0	-469.8	-306918.1
	0.0	-4116.1	2.2	-44437.7	-358.7	-306302.1
	0.0	-4115.4	2.1	-44630.9	-334.0	-306200.0
	0.0	-4111.8	1.4	-45516.6	-222.8	-305584.0
	0.0	-4144.3	7.6	-37506.0	-1225.1	-311116.5
	0.0	-4140.6	6.9	-38391.7	-1114.0	-310500.4
	0.0	-4140.0	6.7	-38584.9	-1089.3	-310398.4
	0.0	-4136.3	6.0	-39470.6	-978.1	-309782.3
	0.0	-4067.6	-7.1	-56480.4	1144.4	-297922.3
	0.0	-4064.0	-7.7	-57366.1	1255.5	-297306.2
	0.0	-4063.3	-7.9	-57559.2	1280.2	-297204.2
	0.0	-4059.6	-8.6	-58445.0	1391.4	-296588.1
	0.0	-4092.1	-2.4	-50434.4	389.1	-302120.7
	0.0	-4088.5	-3.1	-51320.1	500.3	-301504.6
	0.0	-4087.8	-3.2	-51513.2	525.0	-301402.6
	0.0	-4084.2	-3.9	-52399.0	636.1	-300786.5
Asta	63	nod	63	62		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4641.2	2.9	-40954.1	470.8	-262409.0
	0.0	4646.5	2.2	-41954.7	361.1	-263039.0
	0.0	4647.4	2.1	-42162.0	336.6	-263126.5
	0.0	4652.6	1.4	-43162.6	227.0	-263756.6
	0.0	4605.1	7.5	-34119.1	1216.8	-258086.4
	0.0	4610.3	6.8	-35119.7	1107.2	-258716.4
	0.0	4611.2	6.7	-35327.0	1082.7	-258803.9
	0.0	4616.5	6.0	-36327.6	973.0	-259434.0
	0.0	4720.3	-7.0	-55734.7	-1139.6	-271844.8
	0.0	4725.6	-7.7	-56735.3	-1249.3	-272474.9
	0.0	4726.5	-7.9	-56942.6	-1273.8	-272562.4
	0.0	4731.7	-8.6	-57943.2	-1383.5	-273192.4
	0.0	4684.1	-2.4	-48899.6	-393.6	-267522.2
	0.0	4689.4	-3.1	-49900.2	-503.3	-268152.2
	0.0	4690.3	-3.3	-50107.5	-527.7	-268239.7
	0.0	4695.6	-3.9	-51108.1	-637.4	-268869.8
162.	0.0	-82.4	2.9	-39076.8	2.2	103957.1
	0.0	-79.8	2.2	-40020.4	2.2	103936.7
	0.0	-79.5	2.1	-40216.3	3.1	103941.4
	0.0	-76.9	1.4	-41159.9	3.0	103921.0
	0.0	-99.6	7.5	-32631.6	2.7	104101.2
	0.0	-97.1	6.8	-33575.2	2.6	104080.8
	0.0	-96.7	6.7	-33771.0	3.5	104085.6
	0.0	-94.2	6.0	-34714.6	3.4	104065.1
	0.0	-44.6	-7.0	-53007.2	-4.0	103659.7
	0.0	-42.1	-7.7	-53950.8	-4.1	103639.3
	0.0	-41.7	-7.9	-54146.6	-3.1	103644.0
	0.0	-39.2	-8.5	-55090.2	-3.2	103623.6
	0.0	-61.9	-2.4	-46562.0	-3.6	103803.8
	0.0	-59.3	-3.1	-47505.6	-3.7	103783.4
	0.0	-59.0	-3.3	-47701.4	-2.7	103788.2
	0.0	-56.4	-3.9	-48645.0	-2.8	103767.7
323.	0.0	-4638.0	2.9	-38589.1	-468.3	-280016.8
	0.0	-4636.6	2.2	-39509.3	-358.8	-279742.9
	0.0	-4636.4	2.1	-39700.6	-332.9	-279690.2

	0.0	-4635.0	1.4	-40620.8	-223.4	-279416.2
	0.0	-4647.5	7.5	-32304.5	-1213.5	-281884.6
	0.0	-4646.1	6.8	-33224.7	-1104.0	-281610.7
	0.0	-4645.9	6.7	-33416.0	-1078.1	-281558.0
	0.0	-4644.5	6.0	-34336.2	-968.6	-281284.1
	0.0	-4617.6	-7.0	-52164.7	1134.1	-275934.5
	0.0	-4616.2	-7.7	-53084.8	1243.6	-275660.6
	0.0	-4616.0	-7.9	-53276.2	1269.5	-275607.9
	0.0	-4614.6	-8.6	-54196.3	1379.0	-275333.9
	0.0	-4627.1	-2.4	-45880.1	388.9	-277802.4
	0.0	-4625.7	-3.1	-46800.2	498.4	-277528.4
	0.0	-4625.5	-3.3	-46991.6	524.3	-277475.7
	0.0	-4624.1	-3.9	-47911.7	633.8	-277201.8
Asta	64	nod	64	63		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	5957.5	2.9	-59896.7	465.0	-547483.7
	0.0	5965.0	2.2	-60754.2	356.4	-548698.2
	0.0	5966.2	2.1	-60931.1	332.9	-548893.8
	0.0	5973.6	1.4	-61788.6	224.4	-550108.2
	0.0	5906.7	7.5	-54042.3	1203.2	-539173.9
	0.0	5914.1	6.8	-54899.8	1094.7	-540388.3
	0.0	5915.3	6.7	-55076.7	1071.2	-540583.9
	0.0	5922.7	6.0	-55934.2	962.7	-541798.4
	0.0	6068.2	-7.0	-72556.7	-1127.7	-565544.1
	0.0	6075.6	-7.7	-73414.2	-1236.3	-566758.5
	0.0	6076.8	-7.8	-73591.0	-1259.8	-566954.1
	0.0	6084.2	-8.5	-74448.5	-1368.3	-568168.6
	0.0	6017.3	-2.4	-66702.2	-389.4	-557234.2
	0.0	6024.7	-3.1	-67559.8	-498.0	-558448.7
	0.0	6025.9	-3.2	-67736.6	-521.5	-558644.3
	0.0	6033.4	-3.9	-68594.1	-630.0	-559858.7
162.	0.0	964.3	2.9	-54421.7	-2.5	11691.8
	0.0	966.8	2.2	-55165.8	-2.1	11271.6
	0.0	967.0	2.1	-55319.5	-2.0	11191.4
	0.0	969.5	1.4	-56063.5	-1.6	10771.2
	0.0	947.3	7.5	-49342.7	-5.2	14564.0
	0.0	949.8	6.8	-50086.7	-4.8	14143.8
	0.0	950.0	6.6	-50240.4	-4.7	14063.6
	0.0	952.5	6.0	-50984.4	-4.3	13643.4
	0.0	1001.3	-7.0	-65398.3	5.0	5467.8
	0.0	1003.8	-7.7	-66142.3	5.4	5047.6
	0.0	1004.0	-7.8	-66296.0	5.5	4967.4
	0.0	1006.5	-8.5	-67040.1	5.9	4547.2
	0.0	984.3	-2.4	-60319.2	2.3	8340.0
	0.0	986.8	-3.1	-61063.3	2.7	7919.8
	0.0	987.0	-3.2	-61216.9	2.8	7839.6
	0.0	989.5	-3.9	-61961.0	3.2	7419.4
323.	0.0	-3918.7	2.9	-50882.0	-469.7	-229334.2
	0.0	-3920.3	2.2	-51539.0	-360.3	-229698.3
	0.0	-3920.8	2.1	-51675.0	-336.7	-229803.4
	0.0	-3922.4	1.4	-52332.1	-227.3	-230167.6
	0.0	-3907.8	7.5	-46397.6	-1213.5	-226847.7
	0.0	-3909.4	6.8	-47054.7	-1104.1	-227211.9
	0.0	-3909.9	6.7	-47190.7	-1080.4	-227317.0
	0.0	-3911.5	6.0	-47847.7	-971.1	-227681.2
	0.0	-3942.4	-7.0	-60565.5	1137.5	-234714.1
	0.0	-3944.0	-7.7	-61222.6	1246.9	-235078.2
	0.0	-3944.6	-7.8	-61358.5	1270.6	-235183.3
	0.0	-3946.2	-8.5	-62015.6	1379.9	-235547.5
	0.0	-3931.5	-2.4	-56081.2	393.8	-232227.6
	0.0	-3933.1	-3.1	-56738.2	503.1	-232591.8
	0.0	-3933.6	-3.2	-56874.2	526.8	-232696.9
	0.0	-3935.2	-3.9	-57531.2	636.2	-233061.1
Asta	65	nod	65	64		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3835.9	3.0	8739.8	499.1	-241292.0
	0.0	3836.9	2.3	8462.7	382.1	-241590.6
	0.0	3836.7	2.2	8407.8	357.8	-241555.5
	0.0	3837.6	1.5	8130.6	240.9	-241854.1
	0.0	3829.2	7.8	10626.8	1293.5	-239228.1
	0.0	3830.2	7.1	10349.6	1176.6	-239526.7
	0.0	3829.9	7.0	10294.7	1152.3	-239491.6
	0.0	3830.9	6.3	10017.6	1035.3	-239790.2
	0.0	3851.0	-7.3	4683.3	-1212.7	-245844.8
	0.0	3852.0	-8.0	4406.2	-1329.7	-246143.4
	0.0	3851.7	-8.2	4351.2	-1354.0	-246108.3
	0.0	3852.7	-8.9	4074.1	-1470.9	-246406.9
	0.0	3844.3	-2.5	6570.2	-418.3	-243780.8
	0.0	3845.2	-3.2	6293.1	-535.2	-244079.4
	0.0	3845.0	-3.4	6238.2	-559.5	-244044.3
	0.0	3846.0	-4.1	5961.0	-676.5	-244342.9
162.	0.0	-672.4	3.0	14391.1	12.1	19966.4
	0.0	-675.1	2.3	14248.3	9.2	19548.3
	0.0	-676.2	2.2	14220.7	8.9	19477.1
	0.0	-678.9	1.5	14077.9	6.0	19058.9
	0.0	-654.2	7.8	15360.4	31.7	22826.4
	0.0	-656.9	7.1	15217.7	28.8	22408.2
	0.0	-658.0	6.9	15190.1	28.5	22337.1
	0.0	-660.7	6.2	15047.3	25.6	21918.9

	0.0	-711.4	-7.3	12323.6	-29.9	13766.3
	0.0	-714.1	-8.0	12180.8	-32.8	13348.2
	0.0	-715.2	-8.2	12153.2	-33.1	13277.0
	0.0	-717.9	-8.9	12010.5	-36.0	12858.8
	0.0	-693.2	-2.5	13293.0	-10.3	16626.3
	0.0	-695.9	-3.2	13150.2	-13.2	16208.1
	0.0	-697.0	-3.4	13122.6	-13.5	16137.0
	0.0	-699.7	-4.1	12979.8	-16.5	15718.8
323.	0.0	-5534.4	3.0	20558.3	-474.7	-478175.6
	0.0	-5541.9	2.3	20544.8	-363.6	-479405.7
	0.0	-5544.0	2.2	20543.5	-339.9	-479730.6
	0.0	-5551.5	1.5	20530.0	-228.9	-480960.7
	0.0	-5483.3	7.8	20644.6	-1229.6	-469787.3
	0.0	-5490.8	7.1	20631.1	-1118.6	-471017.3
	0.0	-5492.9	7.0	20629.8	-1094.9	-471342.3
	0.0	-5500.4	6.2	20616.3	-983.8	-472572.3
	0.0	-5644.9	-7.3	20398.8	1152.5	-496299.4
	0.0	-5652.3	-8.0	20385.3	1263.5	-497529.5
	0.0	-5654.4	-8.2	20384.0	1287.3	-497854.4
	0.0	-5661.9	-8.9	20370.5	1398.3	-499084.5
	0.0	-5593.8	-2.5	20485.1	397.5	-487911.1
	0.0	-5601.3	-3.2	20471.6	508.5	-489141.1
	0.0	-5603.3	-3.4	20470.3	532.3	-489466.1
	0.0	-5610.8	-4.1	20456.8	643.3	-490696.1
Asta	66	nod	66	65		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	1821.4	2.6	128977.3	373.0	184370.5
	0.0	1821.2	2.0	130541.1	285.7	184589.0
	0.0	1820.3	1.9	130870.3	267.9	184817.3
	0.0	1820.1	1.3	132434.1	180.6	185035.7
	0.0	1822.8	6.7	118297.9	966.5	182895.8
	0.0	1822.5	6.1	119861.7	879.1	183114.3
	0.0	1821.7	6.0	120190.9	861.4	183342.6
	0.0	1821.5	5.4	121754.7	774.0	183561.0
	0.0	1818.6	-6.3	152125.0	-905.5	187493.3
	0.0	1818.4	-6.9	153688.8	-992.9	187711.7
	0.0	1817.6	-7.0	154018.0	-1010.7	187940.0
	0.0	1817.4	-7.6	155581.8	-1098.0	188158.5
	0.0	1820.0	-2.2	141445.7	-312.1	186018.6
	0.0	1819.8	-2.8	143009.5	-399.4	186237.0
	0.0	1819.0	-2.9	143338.7	-417.2	186465.3
	0.0	1818.8	-3.5	144902.4	-504.6	186683.8
162.	0.0	-1759.8	2.6	127633.7	-45.9	194683.9
	0.0	-1760.9	2.0	129248.4	-35.1	194813.6
	0.0	-1761.9	1.9	129587.4	-32.8	194901.9
	0.0	-1763.0	1.3	131202.2	-22.0	195031.6
	0.0	-1752.4	6.7	116606.3	-119.2	193803.8
	0.0	-1753.5	6.1	118221.1	-108.4	193933.5
	0.0	-1754.5	6.0	118560.1	-106.1	194021.8
	0.0	-1755.6	5.4	120174.8	-95.3	194151.5
	0.0	-1775.5	-6.3	151535.5	112.0	196574.3
	0.0	-1776.6	-6.9	153150.2	122.7	196703.9
	0.0	-1777.6	-7.0	153489.2	125.0	196792.3
	0.0	-1778.7	-7.6	155104.0	135.8	196921.9
	0.0	-1768.1	-2.2	140508.1	38.7	195694.2
	0.0	-1769.2	-2.8	142122.9	49.5	195823.8
	0.0	-1770.2	-2.9	142461.9	51.8	195912.2
	0.0	-1771.3	-3.5	144076.6	62.6	196041.9
323.	0.0	-5823.8	2.6	130828.8	-465.5	-411442.9
	0.0	-5827.1	2.0	132551.9	-356.4	-411653.0
	0.0	-5828.5	1.9	132912.7	-334.1	-411747.0
	0.0	-5831.8	1.3	134635.9	-224.9	-411957.1
	0.0	-5801.1	6.7	119061.3	-1206.6	-410019.1
	0.0	-5804.5	6.1	120784.5	-1097.5	-410229.2
	0.0	-5805.8	6.0	121145.3	-1075.2	-410323.2
	0.0	-5809.1	5.4	122868.4	-966.0	-410533.4
	0.0	-5872.5	-6.3	156334.6	1131.1	-414478.9
	0.0	-5875.8	-6.9	158057.7	1240.3	-414689.1
	0.0	-5877.1	-7.0	158418.6	1262.6	-414783.1
	0.0	-5880.5	-7.7	160141.7	1371.7	-414993.2
	0.0	-5849.8	-2.2	144567.2	390.0	-413055.2
	0.0	-5853.2	-2.8	146290.3	499.2	-413265.3
	0.0	-5854.5	-2.9	146651.1	521.5	-413359.3
	0.0	-5857.8	-3.5	148374.3	630.6	-413569.4
Asta	67	nod	67	68		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2661.0	3.2	-24807.0	512.0	154194.5
	0.0	2679.7	2.4	-24251.4	391.0	148161.8
	0.0	2683.0	2.3	-24154.9	368.7	146899.2
	0.0	2701.7	1.5	-23599.3	247.7	140866.5
	0.0	2534.0	8.2	-28581.0	1329.9	195218.3
	0.0	2552.7	7.5	-28025.4	1209.0	189185.6
	0.0	2556.0	7.3	-27928.9	1186.6	187923.0
	0.0	2574.7	6.6	-27373.3	1065.6	181890.3
	0.0	2933.3	-7.7	-16753.9	-1245.7	66609.4
	0.0	2952.1	-8.5	-16198.3	-1366.6	60576.7
	0.0	2955.3	-8.6	-16101.8	-1389.0	59314.1
	0.0	2974.0	-9.4	-15546.2	-1509.9	53281.4
	0.0	2806.3	-2.7	-20527.9	-427.7	107633.3

	0.0	2825.1	-3.4	-19972.3	-548.7	101600.5
	0.0	2828.3	-3.5	-19875.8	-571.0	100338.0
	0.0	2847.1	-4.3	-19320.2	-692.0	94305.2
165.	0.0	-1141.2	3.2	-21751.1	-10.2	274240.1
	0.0	-1119.1	2.4	-21166.4	-7.7	271643.9
	0.0	-1114.6	2.3	-21069.3	-7.5	271027.8
	0.0	-1092.5	1.5	-20484.6	-5.0	268431.6
	0.0	-1291.6	8.2	-25718.5	-27.1	291955.5
	0.0	-1269.5	7.5	-25133.8	-24.6	289359.4
	0.0	-1265.0	7.3	-25036.7	-24.5	288743.2
	0.0	-1242.9	6.6	-24452.0	-21.9	286147.0
	0.0	-819.7	-7.7	-13276.7	26.1	236541.2
	0.0	-797.6	-8.4	-12692.0	28.6	233945.1
	0.0	-793.2	-8.6	-12594.9	28.7	233328.9
	0.0	-771.0	-9.3	-12010.2	31.2	230732.8
	0.0	-970.1	-2.6	-17244.1	9.1	254256.6
	0.0	-948.0	-3.4	-16659.5	11.7	251660.5
	0.0	-943.6	-3.5	-16562.3	11.8	251044.3
330.	0.0	-921.4	-4.3	-15977.6	14.3	248448.2
	0.0	-4686.4	3.2	-19500.5	-532.5	-208840.5
	0.0	-4663.3	2.4	-18865.1	-406.5	-207691.4
	0.0	-4658.4	2.3	-18763.6	-383.9	-207527.3
	0.0	-4635.4	1.5	-18128.2	-257.9	-206378.2
	0.0	-4843.1	8.2	-23808.2	-1384.6	-216586.7
	0.0	-4820.1	7.5	-23172.7	-1258.5	-215437.6
	0.0	-4815.2	7.4	-23071.3	-1235.9	-215273.5
	0.0	-4792.1	6.6	-22435.9	-1109.9	-214124.4
	0.0	-4351.8	-7.7	-10291.1	1298.2	-192156.8
	0.0	-4328.7	-8.5	-9655.7	1424.3	-191007.7
	0.0	-4323.8	-8.6	-9554.3	1446.8	-190843.6
	0.0	-4300.7	-9.4	-8918.9	1572.9	-189694.5
	0.0	-4508.5	-2.7	-14598.8	446.2	-199903.0
	0.0	-4485.5	-3.4	-13963.4	572.2	-198753.9
	0.0	-4480.5	-3.5	-13862.0	594.8	-198589.8
	0.0	-4457.5	-4.3	-13226.5	720.8	-197440.7
Asta	68	nod	68	59		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3777.5	2.6	-6284.8	486.7	-200232.0
	0.0	3802.7	2.0	-6946.1	371.4	-204499.8
	0.0	3808.1	1.9	-7023.3	350.6	-205464.3
	0.0	3833.2	1.3	-7684.6	235.3	-209732.1
	0.0	3606.2	6.8	-1845.2	1266.1	-171160.7
	0.0	3631.4	6.2	-2506.5	1150.8	-175428.5
	0.0	3636.8	6.1	-2583.7	1130.0	-176393.1
	0.0	3661.9	5.5	-3245.0	1014.7	-180660.9
	0.0	4143.2	-6.4	-15877.5	-1187.4	-262218.5
	0.0	4168.4	-7.0	-16538.8	-1302.7	-266486.3
	0.0	4173.7	-7.1	-16616.0	-1323.5	-267450.9
	0.0	4198.9	-7.8	-17277.3	-1438.8	-271718.7
	0.0	3971.9	-2.2	-11437.9	-408.0	-233147.3
	0.0	3997.1	-2.8	-12099.2	-523.3	-237415.1
	0.0	4002.5	-2.9	-12176.4	-544.1	-238379.6
	0.0	4027.6	-3.6	-12837.7	-659.4	-242647.4
165.	0.0	400.1	2.6	-4520.6	55.0	142030.0
	0.0	425.5	2.0	-5131.6	41.9	141926.7
	0.0	431.1	1.9	-5204.1	40.1	141860.5
	0.0	456.6	1.3	-5815.1	27.0	141757.1
	0.0	227.1	6.8	-418.8	142.9	142763.9
	0.0	252.5	6.2	-1029.8	129.8	142660.6
	0.0	258.1	6.1	-1102.2	128.0	142594.4
	0.0	283.5	5.4	-1713.3	114.9	142491.1
	0.0	769.3	-6.4	-13385.4	-134.3	140519.9
	0.0	794.8	-7.0	-13996.5	-147.4	140416.6
	0.0	800.4	-7.1	-14068.9	-149.2	140350.4
	0.0	825.8	-7.7	-14679.9	-162.3	140247.1
	0.0	596.3	-2.2	-9283.6	-46.4	141253.9
	0.0	621.7	-2.8	-9894.7	-59.5	141150.6
	0.0	627.3	-2.9	-9967.1	-61.3	141084.3
	0.0	652.8	-3.5	-10578.1	-74.4	140981.0
330.	0.0	-2827.8	2.6	-2923.8	-375.8	-59760.6
	0.0	-2800.9	2.0	-3507.2	-286.8	-55556.2
	0.0	-2794.8	1.9	-3577.5	-269.8	-54652.3
	0.0	-2767.8	1.3	-4160.9	-180.8	-50447.8
	0.0	-3011.3	6.8	992.1	-978.0	-88354.7
	0.0	-2984.3	6.2	408.7	-889.0	-84150.3
	0.0	-2978.2	6.1	338.4	-872.0	-83246.4
	0.0	-2951.2	5.4	-245.0	-783.0	-79041.9
	0.0	-2436.5	-6.4	-11388.9	916.6	1306.1
	0.0	-2409.6	-7.0	-11972.4	1005.6	5510.5
	0.0	-2403.4	-7.1	-12042.6	1022.6	6414.4
	0.0	-2376.5	-7.7	-12626.1	1111.6	10618.9
	0.0	-2619.9	-2.2	-7473.1	314.4	-27288.1
	0.0	-2593.0	-2.8	-8056.5	403.4	-23083.6
	0.0	-2586.9	-2.9	-8126.7	420.4	-22179.7
	0.0	-2559.9	-3.5	-8710.2	509.4	-17975.2
Asta	69	nod	59	58		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2607.3	2.4	3166.3	334.6	-86783.5
	0.0	2626.6	1.8	2097.3	255.5	-89477.6

	0.0	2630.5	1.7	1876.3	239.4	-90031.7
	0.0	2649.8	1.1	807.3	160.3	-92725.7
	0.0	2476.4	6.2	10419.3	870.4	-68473.4
	0.0	2495.7	5.7	9350.3	791.3	-71167.4
	0.0	2499.6	5.5	9129.3	775.1	-71721.5
	0.0	2518.9	5.0	8060.2	696.0	-74415.6
	0.0	2886.9	-5.8	-12361.3	-814.8	-125900.5
	0.0	2906.2	-6.4	-13430.3	-893.9	-128594.6
	0.0	2910.1	-6.5	-13651.3	-910.0	-129148.6
	0.0	2929.3	-7.1	-14720.3	-989.1	-131842.7
	0.0	2756.0	-2.0	-5108.3	-279.1	-107590.3
	0.0	2775.3	-2.6	-6177.3	-358.2	-110284.4
	0.0	2779.2	-2.7	-6398.3	-374.3	-110838.5
	0.0	2798.5	-3.2	-7467.4	-453.4	-113532.6
140.	0.0	-87.0	2.4	4510.7	-0.8	89513.7
	0.0	-66.6	1.8	3441.2	-0.8	89598.2
	0.0	-62.3	1.7	3217.7	-0.4	89621.5
	0.0	-41.8	1.1	2148.2	-0.4	89706.0
	0.0	-225.9	6.2	11767.5	-0.7	88937.4
	0.0	-205.4	5.7	10698.0	-0.7	89021.9
	0.0	-201.1	5.5	10474.6	-0.3	89045.1
	0.0	-180.7	5.0	9405.1	-0.3	89129.6
	0.0	209.6	-5.8	-11025.2	0.0	90742.2
	0.0	230.1	-6.4	-12094.7	0.0	90826.7
	0.0	234.4	-6.5	-12318.1	0.4	90849.9
	0.0	254.8	-7.1	-13387.6	0.4	90934.4
	0.0	70.8	-2.0	-3768.3	0.1	90165.9
	0.0	91.2	-2.6	-4837.8	0.1	90250.4
	0.0	95.5	-2.7	-5061.2	0.5	90273.6
	0.0	116.0	-3.2	-6130.7	0.5	90358.1
280.	0.0	-2781.9	2.4	5975.9	-335.5	-111194.2
	0.0	-2760.2	1.8	4877.2	-256.4	-108158.5
	0.0	-2755.4	1.7	4645.4	-239.7	-107497.0
	0.0	-2733.7	1.1	3546.8	-160.6	-104461.3
	0.0	-2929.5	6.2	13431.0	-870.9	-131835.1
	0.0	-2907.8	5.7	12332.4	-791.8	-128799.3
	0.0	-2903.0	5.5	12100.6	-775.1	-128137.8
	0.0	-2881.3	5.0	11001.9	-696.0	-125102.1
	0.0	-2466.5	-5.8	-9984.4	814.1	-67099.6
	0.0	-2444.8	-6.4	-11083.1	893.2	-64063.9
	0.0	-2440.0	-6.5	-11314.9	910.0	-63402.4
	0.0	-2418.3	-7.1	-12413.5	989.0	-60366.7
	0.0	-2614.1	-2.0	-2529.2	278.7	-87740.5
	0.0	-2592.4	-2.6	-3627.9	357.8	-84704.8
	0.0	-2587.6	-2.7	-3859.7	374.6	-84043.2
	0.0	-2565.9	-3.2	-4958.3	453.6	-81007.5
Asta	70	nod	58	69		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2621.0	2.6	9442.2	378.0	-25959.9
	0.0	2642.4	2.0	8424.4	289.2	-29785.2
	0.0	2646.5	1.9	8171.2	269.6	-30580.2
	0.0	2667.9	1.3	7153.4	180.7	-34405.5
	0.0	2475.9	6.8	16323.5	979.2	49.0
	0.0	2497.2	6.2	15305.7	890.4	-3776.3
	0.0	2501.4	6.1	15052.5	870.7	-4571.4
	0.0	2522.7	5.4	14034.7	781.9	-8396.7
	0.0	2930.5	-6.4	-5389.1	-914.6	-81511.1
	0.0	2951.8	-7.0	-6407.0	-1003.5	-85336.4
	0.0	2956.0	-7.1	-6660.2	-1023.1	-86131.5
	0.0	2977.3	-7.7	-7678.0	-1111.9	-89956.8
	0.0	2785.4	-2.2	1492.2	-313.4	-55502.3
	0.0	2806.7	-2.8	474.4	-402.3	-59327.6
	0.0	2810.9	-2.9	221.1	-421.9	-60122.6
	0.0	2832.2	-3.6	-796.7	-510.7	-63947.9
165.	0.0	-605.5	2.6	11452.3	-55.7	141901.7
	0.0	-583.0	2.0	10363.1	-42.8	141682.4
	0.0	-578.4	1.9	10091.4	-39.5	141610.5
	0.0	-555.9	1.3	9002.2	-26.5	141391.3
	0.0	-758.3	6.8	18818.2	-143.2	143373.8
	0.0	-735.8	6.2	17729.0	-130.2	143154.5
	0.0	-731.2	6.0	17457.3	-126.9	143082.6
	0.0	-708.8	5.4	16368.1	-114.0	142863.3
	0.0	-279.4	-6.4	-4418.4	133.5	138681.6
	0.0	-257.0	-7.0	-5507.6	146.4	138462.3
	0.0	-252.4	-7.1	-5779.3	149.8	138390.4
	0.0	-229.9	-7.7	-6868.5	162.7	138171.2
	0.0	-432.3	-2.2	2947.6	46.0	140153.7
	0.0	-409.8	-2.8	1858.4	59.0	139934.4
	0.0	-405.2	-2.9	1586.7	62.3	139862.5
	0.0	-382.7	-3.6	497.5	75.2	139643.2
330.	0.0	-3990.7	2.6	13886.3	-490.4	-234818.2
	0.0	-3966.1	2.0	12685.4	-375.4	-231164.4
	0.0	-3960.9	1.9	12385.1	-349.1	-230424.7
	0.0	-3936.3	1.3	11184.2	-234.1	-226770.9
	0.0	-4158.1	6.8	22009.6	-1267.9	-259692.2
	0.0	-4133.5	6.2	20808.7	-1152.9	-256038.4
	0.0	-4128.2	6.1	20508.5	-1126.6	-255298.6
	0.0	-4103.6	5.5	19307.5	-1011.7	-251644.8
	0.0	-3633.4	-6.4	-3611.2	1183.8	-181800.5
	0.0	-3608.8	-7.0	-4812.1	1298.7	-178146.6

	0.0	-3603.6	-7.1	-5112.4	1325.0	-177406.9
	0.0	-3579.0	-7.8	-6313.3	1440.0	-173753.1
	0.0	-3800.8	-2.2	4512.1	406.2	-206674.4
	0.0	-3776.2	-2.8	3311.2	521.2	-203020.6
	0.0	-3770.9	-2.9	3011.0	547.5	-202280.9
	0.0	-3746.3	-3.6	1810.0	662.4	-198627.0
Asta	71	nod	69	70		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4491.6	3.2	11796.1	535.5	-197714.1
	0.0	4513.9	2.4	12883.1	409.9	-199495.7
	0.0	4518.6	2.3	13148.6	381.5	-199921.5
	0.0	4540.8	1.5	14235.7	255.8	-201703.1
	0.0	4340.3	8.2	4409.6	1385.9	-185642.6
	0.0	4362.6	7.5	5496.7	1260.2	-187424.2
	0.0	4367.3	7.3	5762.2	1231.9	-187850.0
	0.0	4389.5	6.6	6849.3	1106.2	-189631.7
	0.0	4814.6	-7.7	27601.9	-1294.8	-223663.1
	0.0	4836.9	-8.5	28689.0	-1420.4	-225444.7
	0.0	4841.6	-8.6	28954.4	-1448.8	-225870.5
	0.0	4863.8	-9.4	30041.5	-1574.5	-227652.1
	0.0	4663.3	-2.6	20215.4	-444.4	-211591.6
	0.0	4685.6	-3.4	21302.5	-570.1	-213373.2
	0.0	4690.3	-3.6	21568.0	-598.4	-213799.0
	0.0	4712.5	-4.3	22655.1	-724.1	-215580.7
165.	0.0	944.0	3.2	14714.4	11.6	252896.7
	0.0	968.1	2.4	15687.7	9.2	254946.6
	0.0	973.5	2.3	15923.9	7.8	255350.2
	0.0	997.6	1.5	16897.2	5.3	257400.1
	0.0	780.0	8.2	8099.3	27.9	238920.2
	0.0	804.1	7.5	9072.5	25.5	240970.0
	0.0	809.5	7.3	9308.8	24.1	241373.7
	0.0	833.6	6.6	10282.0	21.6	243423.5
	0.0	1294.7	-7.7	28861.5	-25.1	282605.3
	0.0	1318.9	-8.4	29834.8	-27.5	284655.2
	0.0	1324.2	-8.6	30071.0	-28.9	285058.8
	0.0	1348.3	-9.3	31044.3	-31.4	287108.7
	0.0	1130.7	-2.6	22246.4	-8.8	268628.8
	0.0	1154.9	-3.4	23219.6	-11.2	270678.6
	0.0	1160.2	-3.5	23455.9	-12.6	271082.3
	0.0	1184.3	-4.3	24429.1	-15.1	273132.1
330.	0.0	-2841.5	3.2	18177.6	-512.2	101193.3
	0.0	-2816.7	2.4	19073.0	-391.5	107319.7
	0.0	-2810.9	2.3	19288.8	-365.8	108647.5
	0.0	-2786.1	1.5	20184.2	-245.1	114773.9
	0.0	-3009.5	8.2	12088.8	-1329.7	59537.9
	0.0	-2984.7	7.5	12984.1	-1209.0	65664.3
	0.0	-2979.0	7.3	13200.0	-1183.3	66992.0
	0.0	-2954.2	6.6	14095.4	-1062.6	73118.5
	0.0	-2481.0	-7.7	31189.7	1244.3	190171.9
	0.0	-2456.3	-8.4	32085.1	1364.9	196298.3
	0.0	-2450.5	-8.6	32301.0	1390.7	197626.1
	0.0	-2425.7	-9.4	33196.3	1511.4	203752.5
	0.0	-2649.1	-2.6	25100.9	426.8	148516.5
	0.0	-2624.3	-3.4	25996.3	547.4	154642.9
	0.0	-2618.5	-3.6	26212.1	573.2	155970.6
	0.0	-2593.8	-4.3	27107.5	693.9	162097.1
Asta	72	nod	71	70		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4974.2	3.1	87384.6	534.0	-343499.5
	0.0	4953.4	2.3	89270.3	407.9	-341375.3
	0.0	4948.3	2.2	89685.8	381.4	-340894.1
	0.0	4927.6	1.5	91571.4	255.4	-338770.0
	0.0	5114.8	8.0	74548.3	1389.0	-357900.2
	0.0	5094.1	7.3	76434.0	1263.0	-355776.0
	0.0	5089.0	7.1	76849.5	1236.5	-355294.8
	0.0	5068.2	6.4	78735.1	1110.5	-353170.7
	0.0	4671.4	-7.5	114739.8	-1299.5	-312579.1
	0.0	4650.7	-8.2	116625.5	-1425.6	-310455.0
	0.0	4645.6	-8.4	117041.0	-1452.0	-309973.8
	0.0	4624.8	-9.1	118926.6	-1578.1	-307849.6
	0.0	4812.1	-2.6	101903.5	-444.5	-326979.9
	0.0	4791.3	-3.3	103789.2	-570.5	-324855.7
	0.0	4786.3	-3.4	104204.7	-597.0	-324374.5
	0.0	4765.5	-4.2	106090.3	-723.0	-322250.3
170.	0.0	1091.3	3.1	76515.9	12.7	173451.7
	0.0	1067.3	2.3	78223.4	9.7	171783.9
	0.0	1061.7	2.2	78601.3	8.9	171357.0
	0.0	1037.8	1.5	80308.8	6.0	169689.2
	0.0	1253.5	8.0	64893.6	33.1	184740.1
	0.0	1229.5	7.2	66601.1	30.1	183072.2
	0.0	1223.9	7.1	66979.1	29.4	182645.4
	0.0	1200.0	6.4	68686.6	26.4	180977.5
	0.0	743.1	-7.5	101287.8	-30.5	149152.2
	0.0	719.2	-8.2	102995.3	-33.5	147484.4
	0.0	713.5	-8.3	103373.3	-34.3	147057.5
	0.0	689.6	-9.0	105080.8	-37.2	145389.6
	0.0	905.3	-2.6	89665.6	-10.1	160440.5
	0.0	881.3	-3.3	91373.1	-13.1	158772.7
	0.0	875.7	-3.4	91751.1	-13.8	158345.8

	0.0	851.8	-4.1	93458.6	-16.8	156678.0
340.	0.0	-2906.4	3.1	68651.4	-508.4	21701.6
	0.0	-2933.3	2.3	70247.8	-388.4	15685.8
	0.0	-2939.3	2.2	70603.0	-363.4	14262.6
	0.0	-2966.2	1.5	72199.4	-243.4	8246.8
	0.0	-2723.6	8.0	57786.9	-1322.3	62494.7
	0.0	-2750.5	7.3	59383.3	-1202.2	56478.9
	0.0	-2756.5	7.1	59738.6	-1177.3	55055.8
	0.0	-2783.4	6.4	61334.9	-1057.2	49040.0
	0.0	-3297.6	-7.5	91812.8	1237.9	-65842.4
	0.0	-3324.5	-8.2	93409.2	1358.0	-71858.2
	0.0	-3330.5	-8.3	93764.4	1382.9	-73281.3
	0.0	-3357.4	-9.1	95360.8	1503.0	-79297.1
	0.0	-3114.8	-2.6	80948.3	424.0	-25049.2
	0.0	-3141.7	-3.3	82544.7	544.1	-31065.0
	0.0	-3147.7	-3.4	82899.9	569.0	-32488.1
	0.0	-3174.6	-4.2	84496.3	689.1	-38504.0
Asta	73	nod	50	71		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2473.6	3.0	24051.1	495.1	47697.5
	0.0	2446.3	2.3	22618.3	378.4	53052.0
	0.0	2439.8	2.1	22312.3	353.5	54307.6
	0.0	2412.5	1.4	20879.5	236.7	59662.1
	0.0	2658.7	7.7	33786.1	1287.3	11405.1
	0.0	2631.4	7.0	32353.2	1170.5	16759.6
	0.0	2624.9	6.9	32047.2	1145.6	18015.2
	0.0	2597.6	6.2	30614.4	1028.9	23369.7
	0.0	2076.1	-7.2	3189.8	-1204.9	125655.9
	0.0	2048.8	-7.9	1757.0	-1321.6	131010.5
	0.0	2042.3	-8.1	1451.0	-1346.5	132266.0
	0.0	2015.0	-8.8	18.1	-1463.3	137620.5
	0.0	2261.2	-2.5	12924.7	-412.7	89363.5
	0.0	2233.9	-3.2	11491.9	-529.5	94718.0
	0.0	2227.4	-3.3	11185.9	-554.4	95973.6
173.	0.0	2200.1	-4.0	9753.1	-671.1	101328.1
	0.0	-1049.2	3.0	10870.0	-15.9	172908.5
	0.0	-1076.5	2.3	9316.4	-12.1	173565.9
	0.0	-1083.0	2.1	8984.9	-11.4	173706.1
	0.0	-1110.4	1.4	7431.3	-7.6	174363.4
	0.0	-863.8	7.7	21429.1	-41.6	168449.4
	0.0	-891.1	7.0	19875.5	-37.8	169106.8
	0.0	-897.6	6.8	19544.0	-37.1	169247.0
	0.0	-925.0	6.2	17990.4	-33.3	169904.3
	0.0	-1447.5	-7.2	-11737.3	38.6	182491.7
	0.0	-1474.8	-7.9	-13290.9	42.4	183149.0
	0.0	-1481.3	-8.0	-13622.4	43.1	183289.3
	0.0	-1508.7	-8.7	-15176.0	46.9	183946.6
	0.0	-1262.1	-2.5	-1178.2	12.9	178032.6
	0.0	-1289.4	-3.2	-2731.8	16.7	178690.0
	0.0	-1295.9	-3.3	-3063.3	17.4	178830.2
	0.0	-1323.3	-4.0	-4616.9	21.2	179487.5
345.	0.0	-4808.9	3.0	-1872.0	-527.2	-328570.2
	0.0	-4838.7	2.3	-3609.1	-402.8	-332804.6
	0.0	-4845.6	2.1	-3979.6	-376.5	-333821.8
	0.0	-4875.4	1.4	-5716.7	-252.0	-338056.2
	0.0	-4607.4	7.7	9937.9	-1371.3	-299873.1
	0.0	-4637.2	7.0	8200.8	-1246.9	-304107.5
	0.0	-4644.2	6.9	7830.3	-1220.6	-305124.7
	0.0	-4673.9	6.2	6093.2	-1096.2	-309359.1
	0.0	-5241.5	-7.2	-27138.5	1282.9	-390197.6
	0.0	-5271.2	-7.9	-28875.6	1407.3	-394432.0
	0.0	-5278.2	-8.1	-29246.1	1433.6	-395449.2
	0.0	-5307.9	-8.8	-30983.2	1558.0	-399683.5
	0.0	-5040.0	-2.5	-15328.7	438.8	-361500.5
	0.0	-5069.7	-3.2	-17065.8	563.2	-365734.9
	0.0	-5076.7	-3.3	-17436.3	589.5	-366752.1
	0.0	-5106.4	-4.0	-19173.4	713.9	-370986.5
Asta	74	nod	50	72		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4691.9	6.7	-34088.3	508.2	-402364.8
	0.0	4725.3	5.1	-34086.9	388.4	-405128.6
	0.0	4733.1	4.8	-34075.8	362.8	-405762.8
	0.0	4766.5	3.2	-34074.3	242.9	-408526.6
	0.0	4465.4	17.4	-34103.5	1321.2	-383629.6
	0.0	4498.8	15.8	-34102.0	1201.4	-386393.5
	0.0	4506.5	15.5	-34090.9	1175.7	-387027.7
	0.0	4539.9	13.9	-34089.4	1055.9	-389791.5
	0.0	5177.0	-16.3	-34155.7	-1237.2	-442716.0
	0.0	5210.4	-17.9	-34154.2	-1357.1	-445479.8
	0.0	5218.1	-18.2	-34143.2	-1382.7	-446114.0
	0.0	5251.5	-19.8	-34141.7	-1502.5	-448877.9
	0.0	4950.4	-5.6	-34170.8	-424.3	-423980.9
	0.0	4983.8	-7.2	-34169.4	-544.1	-426744.7
	0.0	4991.5	-7.5	-34158.3	-569.7	-427378.9
	0.0	5024.9	-9.1	-34156.8	-689.5	-430142.7
88.	0.0	2790.7	6.7	-34335.6	-75.2	-73037.4
	0.0	2823.2	5.1	-34347.1	-57.2	-72905.9
	0.0	2830.7	4.8	-34344.4	-53.7	-72866.6
	0.0	2863.2	3.2	-34355.9	-35.6	-72735.1

	0.0	2570.1	17.4	-34263.2	-198.1	-73951.3
	0.0	2602.6	15.8	-34274.7	-180.1	-73819.8
	0.0	2610.1	15.5	-34272.1	-176.6	-73780.4
	0.0	2642.6	13.9	-34283.6	-158.5	-73648.9
	0.0	3262.8	-16.3	-34549.9	187.9	-71286.1
	0.0	3295.3	-17.9	-34561.4	206.0	-71154.6
	0.0	3302.9	-18.2	-34558.7	209.5	-71115.2
	0.0	3335.4	-19.8	-34570.2	227.5	-70983.7
	0.0	3042.2	-5.6	-34477.5	65.0	-72199.9
	0.0	3074.7	-7.2	-34489.0	83.1	-72068.4
	0.0	3082.3	-7.5	-34486.4	86.6	-72029.0
	0.0	3114.8	-9.1	-34497.9	104.6	-71897.5
175.	0.0	633.2	6.7	-34929.1	-658.8	78625.4
	0.0	663.2	5.1	-34953.7	-502.9	81502.7
	0.0	670.2	4.8	-34952.4	-470.2	82182.0
	0.0	700.2	3.2	-34977.0	-314.3	85059.3
	0.0	430.0	17.4	-34768.5	-1717.7	59081.8
	0.0	459.9	15.8	-34793.1	-1561.8	61959.1
	0.0	467.0	15.5	-34791.8	-1529.1	62638.4
	0.0	496.9	13.9	-34816.4	-1373.2	65515.8
	0.0	1068.8	-16.3	-35331.6	1613.3	120227.2
	0.0	1098.8	-17.9	-35356.3	1769.2	123104.6
	0.0	1105.8	-18.2	-35355.0	1801.9	123783.9
	0.0	1135.8	-19.8	-35379.6	1957.8	126661.2
	0.0	865.5	-5.6	-35171.0	554.4	100683.7
	0.0	895.5	-7.2	-35195.7	710.3	103561.0
	0.0	902.5	-7.5	-35194.4	743.0	104240.3
	0.0	932.5	-9.1	-35219.0	898.9	107117.6
Asta	75	nod	73	72		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	6238.6	4.1	179155.2	665.9	-410437.5
	0.0	6219.2	3.1	179323.1	508.8	-407736.3
	0.0	6214.6	2.9	179392.9	474.2	-407109.7
	0.0	6195.2	2.0	179560.7	317.1	-404408.5
	0.0	6370.2	10.7	178040.9	1733.0	-428770.6
	0.0	6350.8	9.7	178208.7	1575.9	-426069.4
	0.0	6346.2	9.5	178278.5	1541.3	-425442.8
	0.0	6326.7	8.5	178446.4	1384.2	-422741.7
	0.0	5955.9	-10.0	181373.4	-1621.0	-371215.5
	0.0	5936.4	-11.0	181541.2	-1778.1	-368514.3
	0.0	5931.8	-11.2	181611.0	-1812.7	-367887.7
	0.0	5912.4	-12.1	181778.9	-1969.8	-365186.5
	0.0	6087.4	-3.4	180259.1	-554.0	-389548.6
	0.0	6068.0	-4.4	180426.9	-711.0	-386847.4
	0.0	6063.4	-4.6	180496.7	-745.6	-386220.8
	0.0	6044.0	-5.6	180664.5	-902.7	-383519.7
162.	0.0	1492.5	4.1	159612.9	4.7	208811.7
	0.0	1468.3	3.1	159691.2	3.8	208011.3
	0.0	1462.6	2.9	159741.3	2.9	207813.8
	0.0	1438.4	1.9	159819.6	2.0	207013.3
	0.0	1656.7	10.6	159109.1	10.9	214214.5
	0.0	1632.5	9.7	159187.4	10.0	213414.1
	0.0	1626.8	9.5	159237.5	9.2	213216.6
	0.0	1602.6	8.5	159315.8	8.3	212416.2
	0.0	1140.5	-10.0	160565.6	-7.9	197081.8
	0.0	1116.3	-10.9	160643.9	-8.8	196281.4
	0.0	1110.6	-11.1	160694.0	-9.6	196083.9
	0.0	1086.4	-12.1	160772.4	-10.5	195283.5
	0.0	1304.7	-3.4	160061.8	-1.7	202484.6
	0.0	1280.5	-4.4	160140.1	-2.6	201684.2
	0.0	1274.8	-4.6	160190.2	-3.4	201486.7
	0.0	1250.6	-5.6	160268.6	-4.3	200686.3
323.	0.0	-2861.6	4.1	145793.5	-656.6	93922.8
	0.0	-2892.3	3.1	145785.1	-501.4	88696.4
	0.0	-2899.4	2.9	145825.6	-468.3	87471.5
	0.0	-2930.0	2.0	145817.1	-313.0	82245.1
	0.0	-2653.3	10.7	145882.3	-1711.1	129366.3
	0.0	-2684.0	9.7	145873.9	-1555.9	124139.9
	0.0	-2691.1	9.5	145914.4	-1522.8	122915.0
	0.0	-2721.7	8.5	145905.9	-1367.6	117688.6
	0.0	-3307.0	-10.0	145412.4	1605.1	17877.3
	0.0	-3337.7	-11.0	145404.0	1760.3	12650.9
	0.0	-3344.7	-11.2	145444.4	1793.4	11425.9
	0.0	-3375.4	-12.1	145436.0	1948.6	6199.5
	0.0	-3098.7	-3.4	145501.2	550.6	53320.8
	0.0	-3129.4	-4.4	145492.8	705.8	48094.4
	0.0	-3136.4	-4.6	145533.2	738.9	46869.4
	0.0	-3167.1	-5.6	145524.8	894.1	41643.0
Asta	76	nod	74	73		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	5696.1	4.1	47624.0	669.0	-509196.9
	0.0	5676.4	3.2	46509.3	512.4	-505941.0
	0.0	5671.7	3.0	46282.1	478.2	-505159.6
	0.0	5652.1	2.0	45167.3	321.6	-501903.7
	0.0	5829.3	10.8	55268.7	1738.0	-531258.3
	0.0	5809.6	9.8	54153.9	1581.4	-528002.4
	0.0	5804.9	9.6	53926.7	1547.1	-527221.0
	0.0	5785.3	8.6	52812.0	1390.6	-523965.1
	0.0	5409.7	-10.1	31133.5	-1628.1	-461964.2

	0.0	5390.0	-11.1	30018.8	-1784.7	-458708.3
	0.0	5385.3	-11.3	29791.6	-1819.0	-457926.9
	0.0	5365.7	-12.2	28676.8	-1975.6	-454671.0
	0.0	5542.9	-3.5	38778.1	-559.1	-484025.6
	0.0	5523.3	-4.4	37663.4	-715.7	-480769.7
	0.0	5518.5	-4.6	37436.2	-750.0	-479988.3
	0.0	5498.9	-5.6	36321.5	-906.6	-476732.4
162.	0.0	414.2	4.1	23963.8	1.7	-16417.5
	0.0	393.7	3.2	22819.2	2.2	-16382.9
	0.0	388.8	3.0	22583.1	2.6	-16370.6
	0.0	368.3	2.0	21438.5	3.0	-16336.0
	0.0	553.3	10.7	31809.4	0.3	-16657.5
	0.0	532.8	9.8	30664.8	0.8	-16622.9
	0.0	527.9	9.6	30428.6	1.2	-16610.6
	0.0	507.4	8.6	29284.0	1.6	-16576.0
	0.0	115.5	-10.1	7080.5	-2.0	-15978.2
	0.0	94.9	-11.0	5935.9	-1.6	-15943.6
	0.0	90.0	-11.2	5699.8	-1.1	-15931.3
	0.0	69.5	-12.2	4555.2	-0.7	-15896.7
	0.0	254.5	-3.4	14926.1	-3.4	-16218.2
	0.0	234.0	-4.4	13781.5	-2.9	-16183.6
	0.0	229.1	-4.6	13545.4	-2.5	-16171.3
323.	0.0	208.6	-5.6	12400.8	-2.1	-16136.7
	0.0	-4678.3	4.1	1156.4	-669.9	-364822.7
	0.0	-4702.1	3.2	-58.8	-512.4	-368348.6
	0.0	-4707.7	3.0	-312.3	-477.4	-369179.6
	0.0	-4731.6	2.0	-1527.5	-319.9	-372705.5
	0.0	-4516.6	10.8	9482.0	-1741.7	-340934.1
	0.0	-4540.4	9.8	8266.9	-1584.2	-344460.0
	0.0	-4546.0	9.6	8013.3	-1549.2	-345291.0
	0.0	-4569.9	8.6	6798.2	-1391.7	-348816.9
	0.0	-5025.2	-10.1	-16720.6	1628.5	-416288.9
	0.0	-5049.1	-11.1	-17935.8	1786.0	-419814.8
	0.0	-5054.7	-11.3	-18189.3	1821.0	-420645.7
	0.0	-5078.6	-12.2	-19404.4	1978.5	-424171.7
	0.0	-4863.5	-3.5	-8394.9	556.7	-392400.3
	0.0	-4887.4	-4.4	-9610.1	714.2	-395926.2
	0.0	-4893.0	-4.6	-9863.6	749.2	-396757.1
	0.0	-4916.8	-5.6	-11078.8	906.7	-400283.1
Asta	77	nod1	75	74		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	5061.6	4.1	-101143.5	669.0	-509243.1
	0.0	5038.7	3.2	-102279.8	513.3	-505455.9
	0.0	5033.3	3.0	-102511.3	480.1	-504524.1
	0.0	5010.3	2.0	-103647.5	324.4	-500737.0
	0.0	5217.3	10.7	-93342.6	1732.1	-534871.0
	0.0	5194.4	9.8	-94478.9	1576.4	-531083.8
	0.0	5189.0	9.6	-94710.3	1543.2	-530152.0
	0.0	5166.0	8.6	-95846.6	1387.5	-526364.9
	0.0	4726.4	-10.1	-117958.0	-1626.6	-454341.3
	0.0	4703.5	-11.0	-119094.2	-1782.3	-450554.1
	0.0	4698.1	-11.2	-119325.7	-1815.4	-449622.4
	0.0	4675.1	-12.2	-120461.9	-1971.1	-445835.2
	0.0	4882.1	-3.5	-110157.1	-563.5	-479969.2
	0.0	4859.2	-4.4	-111293.3	-719.2	-476182.0
	0.0	4853.8	-4.7	-111524.8	-752.4	-475250.2
	0.0	4830.8	-5.6	-112661.0	-908.1	-471463.1
162.	0.0	121.9	4.1	-118881.4	2.7	-84442.7
	0.0	101.6	3.2	-119969.1	2.9	-84131.0
	0.0	96.8	3.0	-120193.4	3.1	-84024.9
	0.0	76.5	2.0	-121281.1	3.3	-83713.3
	0.0	259.4	10.7	-111417.3	1.2	-86506.4
	0.0	239.1	9.7	-112505.0	1.3	-86194.8
	0.0	234.3	9.5	-112729.3	1.6	-86088.7
	0.0	214.0	8.6	-113817.0	1.8	-85777.0
	0.0	-173.6	-10.1	-134932.0	-2.1	-80208.1
	0.0	-193.9	-11.0	-136019.8	-2.0	-79896.4
	0.0	-198.7	-11.2	-136244.0	-1.7	-79790.4
	0.0	-219.0	-12.2	-137331.7	-1.6	-79478.7
	0.0	-36.1	-3.5	-127468.0	-3.7	-82271.9
	0.0	-56.4	-4.4	-128555.7	-3.5	-81960.2
	0.0	-61.2	-4.6	-128779.9	-3.3	-81854.1
	0.0	-81.5	-5.6	-129867.7	-3.1	-81542.4
323.	0.0	-5117.7	4.1	-140846.6	-668.7	-485939.7
	0.0	-5137.3	3.2	-141924.5	-512.7	-488832.2
	0.0	-5142.0	3.0	-142149.5	-479.1	-489495.7
	0.0	-5161.7	2.0	-143227.4	-323.1	-492388.1
	0.0	-4984.5	10.7	-133453.9	-1734.9	-466300.2
	0.0	-5004.2	9.8	-134531.8	-1578.9	-469192.7
	0.0	-5008.9	9.6	-134756.8	-1545.3	-469856.1
	0.0	-5028.5	8.6	-135834.7	-1389.2	-472748.6
	0.0	-5403.5	-10.1	-156704.5	1627.6	-528336.1
	0.0	-5423.2	-11.0	-157782.4	1783.6	-531228.6
	0.0	-5427.9	-11.2	-158007.4	1817.2	-531892.0
	0.0	-5447.6	-12.2	-159085.3	1973.2	-534784.5
	0.0	-5270.4	-3.5	-149311.8	561.4	-508696.6
	0.0	-5290.0	-4.4	-150389.7	717.4	-511589.0
	0.0	-5294.8	-4.7	-150614.7	751.1	-512252.5
	0.0	-5314.4	-5.6	-151692.6	907.1	-515144.9

Asta	78	nod	76	75		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2045.5	4.2	-319053.0	686.9	13231.7
	0.0	2019.4	3.2	-318812.7	526.3	18087.2
	0.0	2013.7	3.0	-318742.8	492.6	19230.5
	0.0	1987.6	2.0	-318502.5	332.0	24086.0
	0.0	2223.3	10.9	-320672.1	1778.2	-19724.0
	0.0	2197.2	9.9	-320431.7	1617.7	-14868.5
	0.0	2191.5	9.7	-320361.9	1583.9	-13725.2
	0.0	2165.4	8.7	-320121.6	1423.4	-8869.7
	0.0	1660.5	-10.2	-315423.8	-1663.7	84162.0
	0.0	1634.4	-11.2	-315183.4	-1824.2	89017.5
	0.0	1628.7	-11.4	-315113.6	-1858.0	90160.8
	0.0	1602.6	-12.4	-314873.3	-2018.5	95016.3
	0.0	1838.3	-3.5	-317042.8	-572.3	51206.3
	0.0	1812.2	-4.5	-316802.5	-732.9	56061.8
	0.0	1806.5	-4.7	-316732.7	-766.6	57205.1
	0.0	1780.4	-5.7	-316492.3	-927.2	62060.6
162.	0.0	-1511.9	4.2	-317729.8	6.2	67007.6
	0.0	-1534.2	3.2	-317437.2	4.5	67951.4
	0.0	-1539.3	3.0	-317360.4	4.2	68216.9
	0.0	-1561.5	2.0	-317067.8	2.6	69160.7
	0.0	-1360.8	10.9	-319712.6	16.1	60672.4
	0.0	-1383.1	9.9	-319420.0	14.4	61616.2
	0.0	-1388.2	9.7	-319343.3	14.2	61881.7
	0.0	-1410.4	8.7	-319050.7	12.5	62825.5
	0.0	-1837.6	-10.2	-313286.7	-12.8	80433.7
	0.0	-1859.8	-11.2	-312994.1	-14.4	81377.5
	0.0	-1865.0	-11.4	-312917.4	-14.7	81643.0
	0.0	-1887.2	-12.4	-312624.8	-16.4	82586.8
	0.0	-1686.5	-3.5	-315269.6	-2.9	74098.4
	0.0	-1708.8	-4.5	-314977.0	-4.5	75042.2
	0.0	-1713.9	-4.7	-314900.2	-4.8	75307.8
	0.0	-1736.1	-5.7	-314607.6	-6.4	76251.6
323.	0.0	-5864.1	4.2	-327705.3	-675.0	-519141.0
	0.0	-5883.1	3.2	-327350.0	-517.8	-521516.2
	0.0	-5887.6	3.0	-327263.6	-484.6	-522032.3
	0.0	-5906.6	2.0	-326908.3	-327.4	-524407.5
	0.0	-5735.7	10.9	-330122.4	-1746.4	-502960.5
	0.0	-5754.7	9.9	-329767.2	-1589.2	-505335.6
	0.0	-5759.2	9.7	-329680.7	-1556.0	-505851.8
	0.0	-5778.2	8.7	-329325.4	-1398.8	-508227.0
	0.0	-6140.0	-10.2	-322290.5	1638.5	-554168.3
	0.0	-6158.9	-11.2	-321935.2	1795.7	-556543.4
	0.0	-6163.5	-11.4	-321848.7	1828.9	-557059.6
	0.0	-6182.4	-12.4	-321493.4	1986.1	-559434.8
	0.0	-6011.6	-3.5	-324707.6	567.1	-537987.8
	0.0	-6030.5	-4.5	-324352.3	724.3	-540362.9
	0.0	-6035.0	-4.7	-324265.9	757.6	-540879.1
	0.0	-6054.0	-5.7	-323910.6	914.7	-543254.3
Asta	79	nod	77	76		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	6826.8	3.6	-48941.0	572.5	-266605.4
	0.0	6800.9	2.8	-49254.0	438.3	-262202.8
	0.0	6795.0	2.6	-49314.9	410.1	-261231.0
	0.0	6769.1	1.8	-49628.0	275.9	-256828.4
	0.0	7003.5	9.4	-46812.3	1483.9	-296587.1
	0.0	6977.6	8.6	-47125.3	1349.6	-292184.5
	0.0	6971.7	8.4	-47186.2	1321.4	-291212.7
	0.0	6945.7	7.5	-47499.2	1187.2	-286810.1
	0.0	6444.8	-8.8	-53525.9	-1388.9	-201837.1
	0.0	6418.9	-9.7	-53839.0	-1523.2	-197434.5
	0.0	6413.0	-9.9	-53899.9	-1551.4	-196462.7
	0.0	6387.0	-10.7	-54212.9	-1685.6	-192060.1
	0.0	6621.5	-3.0	-51397.2	-477.6	-231818.8
	0.0	6595.6	-3.9	-51710.2	-611.8	-227416.2
	0.0	6589.7	-4.1	-51771.1	-640.0	-226444.4
	0.0	6563.7	-4.9	-52084.2	-774.3	-222041.8
168.	0.0	1792.9	3.6	-38542.2	-36.5	435121.3
	0.0	1767.5	2.8	-38872.7	-28.0	435194.0
	0.0	1761.9	2.6	-38940.7	-26.2	435209.8
	0.0	1736.5	1.8	-39271.3	-17.8	435282.5
	0.0	1966.0	9.4	-36298.8	-94.1	434649.6
	0.0	1940.6	8.6	-36629.4	-85.6	434722.2
	0.0	1935.1	8.4	-36697.3	-83.9	434738.1
	0.0	1909.7	7.5	-37027.9	-75.4	434810.8
	0.0	1417.7	-8.8	-43362.5	87.1	436023.7
	0.0	1392.3	-9.7	-43693.0	95.6	436096.4
	0.0	1386.7	-9.8	-43761.0	97.3	436112.3
	0.0	1361.3	-10.7	-44091.6	105.8	436185.0
	0.0	1590.8	-3.0	-41119.1	29.5	435552.0
	0.0	1565.4	-3.9	-41449.7	38.0	435624.7
	0.0	1559.9	-4.1	-41517.6	39.7	435640.6
	0.0	1534.5	-4.9	-41848.2	48.2	435713.3
335.	0.0	-1957.4	3.6	-29613.6	-646.1	406866.8
	0.0	-1980.7	2.8	-29974.3	-494.8	402827.9
	0.0	-1986.0	2.6	-30051.9	-463.0	401939.4
	0.0	-2009.4	1.8	-30412.6	-311.7	397900.4
	0.0	-1798.4	9.4	-27170.0	-1673.7	434407.3
	0.0	-1821.8	8.6	-27530.7	-1522.4	430368.4

	0.0	-1827.0	8.4	-27608.3	-1490.6	429479.9
	0.0	-1850.4	7.6	-27969.0	-1339.2	425440.9
	0.0	-2300.7	-8.8	-34853.2	1564.7	347111.8
	0.0	-2324.1	-9.7	-35213.9	1716.0	343072.9
	0.0	-2329.4	-9.9	-35291.5	1747.8	342184.4
	0.0	-2352.8	-10.7	-35652.2	1899.1	338145.5
	0.0	-2141.8	-3.0	-32409.6	537.1	374652.3
	0.0	-2165.1	-3.9	-32770.2	688.4	370613.4
	0.0	-2170.4	-4.1	-32847.9	720.2	369724.9
	0.0	-2193.8	-4.9	-33208.5	871.5	365686.0
Asta	80	nod	78	77		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4742.2	3.5	132850.3	542.6	-140056.0
	0.0	4715.1	2.7	131310.3	415.9	-136962.4
	0.0	4708.6	2.5	130956.6	389.6	-136271.3
	0.0	4681.5	1.7	129416.5	262.9	-133177.7
	0.0	4926.2	9.1	143307.6	1405.2	-161132.1
	0.0	4899.1	8.3	141767.6	1278.5	-158038.6
	0.0	4892.6	8.1	141413.8	1252.1	-157347.4
	0.0	4865.5	7.3	139873.8	1125.4	-154253.9
	0.0	4346.2	-8.5	110355.5	-1317.7	-94472.9
	0.0	4319.2	-9.4	108815.5	-1444.4	-91379.3
	0.0	4312.6	-9.5	108461.7	-1470.8	-90688.1
	0.0	4285.5	-10.4	106921.7	-1597.5	-87594.6
	0.0	4530.2	-2.9	120812.7	-455.2	-115549.0
	0.0	4503.1	-3.8	119272.7	-581.9	-112455.5
	0.0	4496.6	-3.9	118919.0	-608.2	-111764.3
	0.0	4469.5	-4.8	117378.9	-735.0	-108670.7
155.	0.0	420.7	3.5	141278.1	-2.1	267368.3
	0.0	395.6	2.7	139856.5	-1.4	266449.0
	0.0	389.7	2.5	139525.2	-1.2	266181.6
	0.0	364.6	1.7	138103.6	-0.5	265262.3
	0.0	591.2	9.1	150923.6	-5.7	273543.7
	0.0	566.1	8.3	149502.0	-5.0	272624.4
	0.0	560.2	8.1	149170.7	-4.8	272357.0
	0.0	535.1	7.3	147749.1	-4.1	271437.7
	0.0	53.1	-8.5	120550.6	4.8	254253.8
	0.0	28.0	-9.3	119129.0	5.5	253334.5
	0.0	22.1	-9.5	118797.7	5.7	253067.2
	0.0	-3.0	-10.3	117376.1	6.4	252147.8
	0.0	223.6	-2.9	130196.1	1.2	260429.2
	0.0	198.5	-3.8	128774.5	1.9	259509.9
	0.0	192.6	-3.9	128443.2	2.1	259242.6
	0.0	167.5	-4.8	127021.6	2.8	258323.2
310.	0.0	-4538.2	3.5	154331.6	-546.5	-42433.4
	0.0	-4563.7	2.7	152981.9	-418.5	-47252.4
	0.0	-4569.3	2.5	152662.2	-391.6	-48416.5
	0.0	-4594.8	1.7	151312.5	-263.6	-53235.5
	0.0	-4364.6	9.1	163481.2	-1416.3	-9729.8
	0.0	-4390.1	8.3	162131.4	-1288.3	-14548.7
	0.0	-4395.8	8.1	161811.8	-1261.4	-15712.8
	0.0	-4421.3	7.3	160462.1	-1133.4	-20531.8
	0.0	-4913.5	-8.5	134692.7	1327.2	-112811.7
	0.0	-4939.0	-9.4	133343.0	1455.2	-117630.7
	0.0	-4944.7	-9.5	133023.3	1482.0	-118794.8
	0.0	-4970.1	-10.4	131673.6	1610.0	-123613.8
	0.0	-4739.9	-2.9	143842.3	457.4	-80108.0
	0.0	-4765.4	-3.8	142492.6	585.4	-84927.0
	0.0	-4771.1	-3.9	142172.9	612.2	-86091.1
	0.0	-4796.6	-4.8	140823.2	740.2	-90910.1
Asta	81	nod	17	78		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3456.6	2.8	1002.2	391.4	-182781.0
	0.0	3421.4	2.2	1975.5	299.8	-175667.8
	0.0	3412.9	2.0	2145.5	280.8	-174008.5
	0.0	3377.7	1.4	3118.9	189.1	-166895.3
	0.0	3695.5	7.3	-5694.6	1014.2	-231138.5
	0.0	3660.3	6.6	-4721.3	922.6	-224025.3
	0.0	3651.8	6.5	-4551.2	903.6	-222366.0
	0.0	3616.6	5.8	-3577.9	812.0	-215252.8
	0.0	2942.4	-6.8	15649.1	-950.6	-78504.0
	0.0	2907.2	-7.5	16622.4	-1042.2	-71390.8
	0.0	2898.7	-7.6	16792.4	-1061.2	-69731.4
	0.0	2863.5	-8.3	17765.7	-1152.8	-62618.2
	0.0	3181.3	-2.4	8952.3	-327.7	-126861.4
	0.0	3146.1	-3.0	9925.6	-419.3	-119748.3
	0.0	3137.6	-3.1	10095.6	-438.3	-118088.9
	0.0	3102.4	-3.8	11069.0	-529.9	-110975.7
157.	0.0	124.0	2.8	6854.1	-49.6	105082.8
	0.0	94.4	2.2	7917.5	-38.1	107104.4
	0.0	87.2	2.0	8106.3	-35.8	107528.6
	0.0	57.6	1.4	9169.6	-24.3	109550.1
	0.0	324.9	7.3	-456.7	-127.9	91277.1
	0.0	295.3	6.6	606.6	-116.5	93298.6
	0.0	288.0	6.5	795.4	-114.1	93722.8
	0.0	258.4	5.8	1858.7	-102.7	95744.4
	0.0	-308.0	-6.8	22830.7	120.3	135019.3
	0.0	-337.6	-7.5	23894.0	131.8	137040.8
	0.0	-344.8	-7.6	24082.8	134.1	137465.0

	0.0	-374.4	-8.3	25146.2	145.6	139486.6
	0.0	-107.1	-2.4	15519.8	41.9	121213.5
	0.0	-136.7	-3.0	16583.2	53.4	123235.1
	0.0	-144.0	-3.1	16772.0	55.7	123659.3
	0.0	-173.6	-3.8	17835.3	67.2	125680.9
314.	0.0	-3718.4	2.8	12936.5	-491.2	-170481.1
	0.0	-3743.9	2.2	14125.6	-376.5	-172762.6
	0.0	-3750.2	2.0	14339.5	-352.8	-173396.4
	0.0	-3775.8	1.4	15528.6	-238.1	-175678.0
	0.0	-3545.0	7.3	4765.8	-1271.8	-155097.5
	0.0	-3570.6	6.6	5954.9	-1157.2	-157379.1
	0.0	-3576.9	6.5	6168.8	-1133.4	-158012.9
	0.0	-3602.4	5.8	7357.9	-1018.8	-160294.4
	0.0	-4091.2	-6.8	30779.9	1192.8	-203327.0
	0.0	-4116.7	-7.5	31969.0	1307.5	-205608.6
	0.0	-4123.0	-7.6	32182.9	1331.2	-206242.4
	0.0	-4148.6	-8.3	33372.0	1445.9	-208524.0
	0.0	-3917.9	-2.4	22609.2	412.2	-187943.5
	0.0	-3943.4	-3.0	23798.3	526.8	-190225.1
	0.0	-3949.7	-3.2	24012.2	550.6	-190858.8
	0.0	-3975.3	-3.8	25201.3	665.2	-193140.4
Asta	82	nod1	38	17		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	5929.7	3.6	-108288.0	427.4	-745057.1
	0.0	5896.4	2.8	-108511.4	327.0	-743208.8
	0.0	5889.4	2.6	-108516.4	306.6	-742850.7
	0.0	5856.1	1.8	-108739.8	206.2	-741002.4
	0.0	6156.5	9.4	-106746.1	1108.7	-757684.4
	0.0	6123.2	8.6	-106969.5	1008.3	-755836.1
	0.0	6116.2	8.4	-106974.5	987.8	-755478.0
	0.0	6082.9	7.5	-107197.9	887.4	-753629.7
	0.0	5439.4	-8.8	-111664.0	-1039.0	-717712.8
	0.0	5406.1	-9.7	-111887.5	-1139.4	-715864.5
	0.0	5399.1	-9.9	-111892.5	-1159.9	-715506.4
	0.0	5365.8	-10.7	-112115.9	-1260.3	-713658.1
	0.0	5666.2	-3.0	-110122.1	-357.7	-730340.1
	0.0	5632.9	-3.9	-110345.6	-458.1	-728491.8
	0.0	5625.9	-4.1	-110350.6	-478.6	-728133.7
	0.0	5592.6	-4.9	-110574.0	-579.0	-726285.4
110.	0.0	3403.0	3.6	-101540.2	27.2	-232826.0
	0.0	3370.8	2.8	-101788.8	20.8	-234592.2
	0.0	3364.0	2.6	-101800.5	19.6	-234995.0
	0.0	3331.8	1.8	-102049.1	13.1	-236761.2
	0.0	3622.4	9.4	-99828.1	70.8	-220813.6
	0.0	3590.2	8.6	-100076.7	64.3	-222579.7
	0.0	3583.5	8.4	-100088.5	63.1	-222982.6
	0.0	3551.3	7.5	-100337.1	56.7	-224748.7
	0.0	2928.6	-8.8	-105280.7	-66.4	-258748.3
	0.0	2896.4	-9.7	-105529.3	-72.9	-260514.5
	0.0	2889.6	-9.9	-105541.1	-74.1	-260917.4
	0.0	2857.4	-10.7	-105789.7	-80.5	-262683.5
	0.0	3148.0	-3.0	-103568.7	-22.9	-246735.9
	0.0	3115.8	-3.9	-103817.3	-29.4	-248502.0
	0.0	3109.0	-4.1	-103829.0	-30.5	-248904.9
	0.0	3076.8	-4.9	-104077.6	-37.0	-250671.1
220.	0.0	1112.2	3.6	-96483.5	-372.9	13241.3
	0.0	1082.4	2.8	-96761.4	-285.4	8047.5
	0.0	1076.2	2.6	-96780.2	-267.3	6925.1
	0.0	1046.4	1.8	-97058.1	-179.8	1731.3
	0.0	1315.1	9.4	-94572.8	-966.9	48621.3
	0.0	1285.4	8.6	-94850.7	-879.5	43427.5
	0.0	1279.1	8.4	-94869.5	-861.4	42305.1
	0.0	1249.4	7.5	-95147.4	-773.9	37111.3
	0.0	673.4	-8.8	-100650.9	905.9	-63198.6
	0.0	643.6	-9.7	-100928.8	993.4	-68392.4
	0.0	637.4	-9.9	-100947.6	1011.5	-69514.9
	0.0	607.6	-10.7	-101225.5	1099.0	-74708.7
	0.0	876.3	-3.0	-98740.2	311.8	-27818.7
	0.0	846.6	-3.9	-99018.1	399.3	-33012.5
	0.0	840.3	-4.1	-99036.9	417.4	-34134.9
	0.0	810.6	-4.9	-99314.8	504.9	-39328.7
Asta	83	nod1	51	38		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3267.0	3.0	301219.4	436.0	-168379.6
	0.0	3239.6	2.3	301149.9	333.7	-165519.7
	0.0	3234.5	2.1	301122.5	312.1	-164987.9
	0.0	3207.1	1.4	301053.1	209.8	-162128.1
	0.0	3454.0	7.7	301676.1	1130.0	-187914.7
	0.0	3426.6	7.0	301606.7	1027.7	-185054.9
	0.0	3421.5	6.9	301579.3	1006.0	-184523.1
	0.0	3394.1	6.2	301509.8	903.8	-181663.3
	0.0	2861.6	-7.3	300268.0	-1058.3	-126038.0
	0.0	2834.2	-8.0	300198.5	-1160.6	-123178.2
	0.0	2829.1	-8.1	300171.1	-1182.3	-122646.4
	0.0	2801.7	-8.8	300101.7	-1284.5	-119786.6
	0.0	3048.7	-2.5	300724.7	-364.4	-145573.2
	0.0	3021.3	-3.2	300655.3	-466.7	-142713.4
	0.0	3016.2	-3.3	300627.9	-488.3	-142181.5
	0.0	2988.8	-4.0	300558.4	-590.6	-139321.7

145.	0.0	-116.4	3.0	298375.2	2.9	60645.6
	0.0	-143.9	2.3	298281.6	2.3	59523.0
	0.0	-149.1	2.1	298246.5	1.8	59306.3
	0.0	-176.6	1.4	298152.9	1.2	58183.6
	0.0	71.6	7.7	298995.3	7.1	68305.8
	0.0	44.0	7.0	298901.7	6.5	67183.2
	0.0	38.8	6.9	298866.6	6.1	66966.5
	0.0	11.3	6.2	298773.0	5.5	65843.8
	0.0	-523.5	-7.2	297073.7	-6.4	44063.8
	0.0	-551.0	-7.9	296980.1	-7.1	42941.1
	0.0	-556.2	-8.1	296945.0	-7.5	42724.4
	0.0	-583.7	-8.8	296851.5	-8.1	41601.8
	0.0	-335.6	-2.5	297693.8	-2.2	51724.0
	0.0	-363.1	-3.2	297600.3	-2.8	50601.4
	0.0	-368.3	-3.3	297565.1	-3.3	50384.6
	0.0	-395.8	-4.0	297471.6	-3.9	49262.0
290.	0.0	-3524.8	3.0	304113.4	-430.2	-203401.6
	0.0	-3552.4	2.3	303993.0	-329.2	-208538.9
	0.0	-3557.7	2.1	303949.2	-308.4	-209516.3
	0.0	-3585.3	1.4	303828.8	-207.4	-214653.7
	0.0	-3335.8	7.7	304914.7	-1115.6	-168328.6
	0.0	-3363.5	7.0	304794.3	-1014.6	-173465.9
	0.0	-3368.7	6.9	304750.5	-993.8	-174443.3
	0.0	-3396.4	6.2	304630.0	-892.8	-179580.6
	0.0	-3934.1	-7.3	302424.4	1045.4	-279370.3
	0.0	-3961.8	-8.0	302303.9	1146.4	-284507.6
	0.0	-3967.0	-8.1	302260.1	1167.2	-285485.0
	0.0	-3994.7	-8.8	302139.7	1268.2	-290622.3
	0.0	-3745.1	-2.5	303225.7	359.9	-244297.2
	0.0	-3772.8	-3.2	303105.2	461.0	-249434.6
	0.0	-3778.1	-3.3	303061.4	481.7	-250412.0
	0.0	-3805.7	-4.0	302941.0	582.8	-255549.3
Asta	84	nodr	66	51		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2913.3	2.9	-166427.4	364.1	-243494.1
	0.0	2890.6	2.2	-167083.2	278.8	-240066.2
	0.0	2886.2	2.1	-167221.9	261.3	-239435.8
	0.0	2863.5	1.4	-167877.7	176.1	-236007.9
	0.0	3068.0	7.6	-161962.1	943.1	-266897.5
	0.0	3045.3	6.9	-162617.9	857.8	-263469.7
	0.0	3040.9	6.7	-162756.5	840.4	-262839.3
	0.0	3018.2	6.0	-163412.3	755.1	-259411.4
	0.0	2578.4	-7.1	-176078.1	-883.2	-192793.0
	0.0	2555.7	-7.8	-176733.9	-968.5	-189365.2
	0.0	2551.3	-7.9	-176872.6	-986.0	-188734.8
	0.0	2528.6	-8.6	-177528.4	-1071.2	-185306.9
	0.0	2733.1	-2.4	-171612.8	-304.2	-216196.5
	0.0	2710.4	-3.1	-172268.6	-389.5	-212768.6
	0.0	2706.0	-3.3	-172407.2	-407.0	-212138.3
	0.0	2683.3	-3.9	-173063.0	-492.2	-208710.4
135.	0.0	-35.3	2.9	-166791.6	-29.3	-47207.1
	0.0	-57.9	2.2	-167444.9	-22.4	-46840.3
	0.0	-62.5	2.1	-167585.1	-20.7	-46816.4
	0.0	-85.2	1.4	-168238.4	-13.7	-46449.6
	0.0	119.4	7.5	-162344.3	-76.1	-49722.8
	0.0	96.7	6.9	-162997.6	-69.2	-49356.0
	0.0	92.2	6.7	-163137.8	-67.4	-49332.1
	0.0	69.5	6.0	-163791.0	-60.5	-48965.3
	0.0	-370.0	-7.1	-176401.5	71.2	-41722.5
	0.0	-392.7	-7.8	-177054.7	78.1	-41355.7
	0.0	-397.2	-7.9	-177195.0	79.9	-41331.8
	0.0	-419.9	-8.6	-177848.2	86.8	-40965.0
	0.0	-215.4	-2.4	-171954.1	24.5	-44238.1
	0.0	-238.0	-3.1	-172607.4	31.4	-43871.4
	0.0	-242.6	-3.3	-172747.6	33.1	-43847.5
	0.0	-265.3	-3.9	-173400.9	40.1	-43480.7
270.	0.0	-3123.9	2.9	-171315.0	-422.9	-259330.3
	0.0	-3146.8	2.2	-171982.0	-323.8	-262039.2
	0.0	-3151.5	2.1	-172127.3	-302.8	-262644.3
	0.0	-3174.5	1.4	-172794.3	-203.7	-265353.2
	0.0	-2967.6	7.6	-166774.8	-1095.8	-240866.0
	0.0	-2990.5	6.9	-167441.8	-996.6	-243574.9
	0.0	-2995.2	6.7	-167587.1	-975.6	-244180.0
	0.0	-3018.1	6.0	-168254.1	-876.5	-246888.9
	0.0	-3462.1	-7.1	-181123.5	1026.2	-299243.6
	0.0	-3485.0	-7.8	-181790.5	1125.3	-301952.6
	0.0	-3489.8	-7.9	-181935.9	1146.3	-302557.6
	0.0	-3512.7	-8.6	-182602.9	1245.4	-305266.5
	0.0	-3305.8	-2.4	-176583.3	353.3	-280779.4
	0.0	-3328.7	-3.1	-177250.3	452.5	-283488.3
	0.0	-3333.4	-3.3	-177395.7	473.5	-284093.3
	0.0	-3356.3	-3.9	-178062.6	572.6	-286802.3
Asta	85	nodr	42	66		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	1501.0	2.5	-41731.1	345.4	-113222.7
	0.0	1474.3	1.9	-42376.3	264.1	-109143.4
	0.0	1468.0	1.8	-42505.1	248.5	-108184.6
	0.0	1441.3	1.2	-43150.3	167.3	-104105.3
	0.0	1683.4	6.5	-37352.1	896.6	-141065.7

	0.0	1656.6	5.9	-37997.3	815.3	-136986.4
	0.0	1650.4	5.8	-38126.0	799.7	-136027.6
	0.0	1623.6	5.2	-38771.2	718.5	-131948.3
	0.0	1106.5	-6.1	-51158.5	-841.0	-53001.1
	0.0	1079.8	-6.7	-51803.7	-922.3	-48921.8
	0.0	1073.5	-6.8	-51932.4	-937.9	-47963.0
	0.0	1046.8	-7.4	-52577.6	-1019.2	-43883.7
	0.0	1288.9	-2.1	-46779.4	-289.9	-80844.1
	0.0	1262.1	-2.7	-47424.6	-371.1	-76764.7
	0.0	1255.9	-2.8	-47553.4	-386.7	-75806.0
	0.0	1229.1	-3.4	-48198.6	-468.0	-71726.6
138.	0.0	-887.6	2.5	-38436.9	1.6	-66349.9
	0.0	-914.8	1.9	-39047.8	1.1	-65981.2
	0.0	-921.1	1.8	-39171.7	1.2	-65887.9
	0.0	-948.3	1.2	-39782.6	0.7	-65519.1
	0.0	-702.2	6.5	-34291.2	4.7	-68874.3
	0.0	-729.4	5.9	-34902.1	4.2	-68505.6
	0.0	-735.7	5.8	-35026.0	4.3	-68412.3
	0.0	-762.9	5.2	-35636.9	3.8	-68043.6
	0.0	-1288.6	-6.1	-47359.5	-4.8	-60889.7
	0.0	-1315.8	-6.7	-47970.4	-5.3	-60521.0
	0.0	-1322.1	-6.8	-48094.3	-5.2	-60427.7
	0.0	-1349.3	-7.4	-48705.2	-5.7	-60059.0
	0.0	-1103.2	-2.1	-43213.8	-1.7	-63414.2
	0.0	-1130.4	-2.7	-43824.7	-2.2	-63045.5
	0.0	-1136.7	-2.8	-43948.6	-2.1	-62952.1
275.	0.0	-1163.9	-3.4	-44559.5	-2.6	-62583.4
	0.0	-3649.2	2.5	-36136.8	-342.3	-374665.4
	0.0	-3676.8	1.9	-36729.3	-262.1	-378067.9
	0.0	-3683.3	1.8	-36851.4	-246.1	-378853.4
	0.0	-3710.9	1.2	-37444.0	-165.9	-382255.9
	0.0	-3460.6	6.5	-32117.2	-887.3	-351464.3
	0.0	-3488.2	5.9	-32709.7	-807.0	-354866.8
	0.0	-3494.7	5.8	-32831.8	-791.1	-355652.3
	0.0	-3522.3	5.2	-33424.3	-710.8	-359054.8
	0.0	-4056.9	-6.1	-44785.4	831.4	-424834.2
	0.0	-4084.6	-6.7	-45378.0	911.6	-428236.7
	0.0	-4091.1	-6.8	-45500.1	927.6	-429022.3
	0.0	-4118.7	-7.4	-46092.6	1007.8	-432424.8
	0.0	-3868.3	-2.1	-40765.8	286.4	-401633.1
	0.0	-3896.0	-2.7	-41358.3	366.7	-405035.6
	0.0	-3902.5	-2.8	-41480.4	382.6	-405821.2
	0.0	-3930.1	-3.4	-42073.0	462.9	-409223.7
Asta	86	nodj	79	42		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4406.5	1.5	-8420.2	495.5	169966.7
	0.0	4385.4	1.2	-8183.6	379.0	179573.7
	0.0	4381.8	1.1	-8119.0	355.6	181496.4
	0.0	4360.7	0.7	-7882.4	239.1	191103.4
	0.0	4549.5	4.0	-10059.6	1285.5	104453.4
	0.0	4528.5	3.6	-9823.0	1169.0	114060.4
	0.0	4524.8	3.5	-9758.4	1145.5	115983.1
	0.0	4503.7	3.2	-9521.8	1029.0	125590.1
	0.0	4097.6	-3.7	-4833.1	-1204.8	311762.5
	0.0	4076.6	-4.1	-4596.5	-1321.4	321369.5
	0.0	4072.9	-4.1	-4531.9	-1344.8	323292.2
	0.0	4051.8	-4.5	-4295.3	-1461.3	332899.2
	0.0	4240.6	-1.3	-6472.5	-414.9	246249.2
	0.0	4219.6	-1.6	-6235.9	-531.4	255856.2
	0.0	4215.9	-1.7	-6171.3	-554.8	257778.9
	0.0	4194.9	-2.1	-5934.7	-671.4	267385.9
285.	0.0	-523.7	1.5	-755.1	67.3	664114.5
	0.0	-549.3	1.1	-474.6	51.5	666734.1
	0.0	-554.3	1.1	-407.2	48.1	667334.2
	0.0	-579.9	0.7	-126.7	32.3	669953.9
	0.0	-349.3	3.8	-2689.8	174.3	646193.2
	0.0	-374.9	3.5	-2409.3	158.5	648812.9
	0.0	-379.9	3.4	-2341.9	155.1	649413.0
	0.0	-405.5	3.1	-2061.3	139.4	652032.7
	0.0	-901.1	-3.6	3464.0	-163.2	702991.1
	0.0	-926.6	-3.9	3744.5	-178.9	705610.8
	0.0	-931.6	-4.0	3811.9	-182.3	706210.9
	0.0	-957.2	-4.3	4092.5	-198.1	708830.5
	0.0	-726.7	-1.2	1529.3	-56.1	685069.8
	0.0	-752.3	-1.6	1809.9	-71.9	687689.5
	0.0	-757.3	-1.6	1877.2	-75.3	688289.6
	0.0	-782.9	-2.0	2157.8	-91.1	690909.3
570.	0.0	-4553.4	1.5	6829.4	-351.0	-45882.0
	0.0	-4580.9	1.1	7183.7	-268.4	-50769.7
	0.0	-4586.3	1.1	7261.2	-252.2	-51647.4
	0.0	-4613.8	0.7	7615.6	-169.6	-56535.0
	0.0	-4365.9	3.8	4393.3	-910.9	-12589.6
	0.0	-4393.4	3.5	4747.6	-828.3	-17477.2
	0.0	-4398.8	3.4	4825.1	-812.1	-18354.9
	0.0	-4426.2	3.1	5179.5	-729.5	-23242.6
	0.0	-4959.3	-3.6	12130.1	854.2	-117857.3
	0.0	-4986.8	-3.9	12484.5	936.8	-122744.9
	0.0	-4992.1	-4.0	12562.0	953.0	-123622.6
	0.0	-5019.6	-4.3	12916.4	1035.6	-128510.3
	0.0	-4771.8	-1.2	9694.0	294.3	-84564.8

	0.0	-4799.2	-1.6	10048.4	376.9	-89452.5
	0.0	-4804.6	-1.6	10125.9	393.1	-90330.2
	0.0	-4832.1	-2.0	10480.3	475.7	-95217.8
Asta	87	nod	79	80		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2393.1	4.6	160933.7	778.1	75050.4
	0.0	2421.4	3.5	163635.5	595.5	70690.2
	0.0	2426.9	3.3	164157.1	558.3	69936.5
	0.0	2455.2	2.2	166858.9	375.7	65576.3
	0.0	2200.5	11.8	142516.0	2017.8	104669.0
	0.0	2228.7	10.8	145217.8	1835.2	100308.8
	0.0	2234.3	10.5	145739.3	1798.0	99555.1
	0.0	2262.5	9.5	148441.1	1615.4	95194.9
	0.0	2809.7	-11.1	200860.4	-1891.7	11136.1
	0.0	2837.9	-12.2	203562.2	-2074.4	6775.9
	0.0	2843.5	-12.4	204083.8	-2111.5	6022.2
	0.0	2871.8	-13.5	206785.6	-2294.2	1662.0
	0.0	2617.1	-3.8	182442.7	-652.0	40754.7
	0.0	2645.3	-4.9	185144.5	-834.7	36394.5
	0.0	2650.9	-5.1	185666.0	-871.8	35640.8
	0.0	2679.1	-6.2	188367.8	-1054.5	31280.6
162.	0.0	-1521.4	4.6	180367.3	41.3	152668.4
	0.0	-1502.0	3.5	183275.4	31.3	152151.6
	0.0	-1498.6	3.3	183840.9	29.3	152114.5
	0.0	-1479.1	2.2	186749.0	19.3	151597.6
	0.0	-1653.5	11.8	160540.6	107.3	156132.6
	0.0	-1634.0	10.7	163448.6	97.3	155615.7
	0.0	-1630.6	10.5	164014.2	95.4	155578.7
	0.0	-1611.2	9.5	166922.2	85.4	155061.8
	0.0	-1236.4	-11.1	223348.8	-99.6	145264.6
	0.0	-1217.0	-12.1	226256.8	-109.6	144747.7
	0.0	-1213.6	-12.4	226822.4	-111.6	144710.7
	0.0	-1194.1	-13.4	229730.4	-121.5	144193.8
	0.0	-1368.5	-3.8	203522.0	-33.6	148728.8
	0.0	-1349.1	-4.9	206430.1	-43.5	148211.9
	0.0	-1345.6	-5.1	206995.6	-45.5	148174.8
	0.0	-1326.2	-6.2	209903.7	-55.5	147657.9
323.	0.0	-6018.7	4.6	206214.9	-695.0	-448967.2
	0.0	-6006.4	3.5	209432.6	-532.4	-446942.7
	0.0	-6004.6	3.3	210062.3	-499.3	-446558.3
	0.0	-5992.3	2.2	213280.0	-336.7	-444533.8
	0.0	-6101.9	11.8	184274.1	-1801.6	-462735.0
	0.0	-6089.6	10.8	187491.8	-1639.1	-460710.5
	0.0	-6087.8	10.5	188121.5	-1605.9	-460326.1
	0.0	-6075.5	9.5	191339.2	-1443.4	-458301.6
	0.0	-5839.7	-11.1	253779.5	1691.0	-419230.8
	0.0	-5827.4	-12.2	256997.2	1853.6	-417206.3
	0.0	-5825.5	-12.4	257627.0	1886.7	-416821.9
	0.0	-5813.2	-13.4	260844.7	2049.3	-414797.4
	0.0	-5922.9	-3.8	231838.7	584.4	-432998.6
	0.0	-5910.6	-4.9	235056.4	747.0	-430974.1
	0.0	-5908.8	-5.1	235686.2	780.1	-430589.7
	0.0	-5896.5	-6.2	238903.9	942.6	-428565.2
Asta	88	nod	80	81		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	5018.8	4.1	52916.2	658.8	-402037.1
	0.0	5040.1	3.2	52261.1	505.2	-404716.0
	0.0	5043.8	3.0	52096.6	473.8	-405108.2
	0.0	5065.2	2.0	51441.4	320.3	-407787.2
	0.0	4873.7	10.6	57417.4	1705.9	-383912.1
	0.0	4895.0	9.7	56762.2	1552.4	-386591.0
	0.0	4898.7	9.5	56597.7	1521.0	-386983.2
	0.0	4920.1	8.5	55942.5	1367.4	-389662.2
	0.0	5331.8	-10.0	43226.4	-1602.7	-441044.3
	0.0	5353.1	-10.9	42571.2	-1756.2	-443723.3
	0.0	5356.8	-11.1	42406.7	-1787.6	-444115.4
	0.0	5378.2	-12.1	41751.5	-1941.2	-446794.4
	0.0	5186.7	-3.5	47727.5	-555.5	-422919.3
	0.0	5208.0	-4.4	47072.3	-709.0	-425598.3
	0.0	5211.7	-4.6	46907.9	-740.5	-425990.4
	0.0	5233.1	-5.6	46252.7	-894.0	-428669.4
162.	0.0	43.2	4.1	83465.2	-5.1	12370.7
	0.0	58.8	3.1	83166.2	-4.2	12661.3
	0.0	61.3	3.0	83073.9	-3.9	12763.9
	0.0	77.0	2.0	82774.9	-3.0	13054.5
	0.0	-62.9	10.6	85535.9	-11.6	10354.9
	0.0	-47.3	9.7	85236.9	-10.6	10645.5
	0.0	-44.8	9.5	85144.5	-10.4	10748.1
	0.0	-29.1	8.5	84845.5	-9.4	11038.7
	0.0	271.6	-10.0	79045.3	11.2	16782.8
	0.0	287.3	-10.9	78746.2	12.2	17073.4
	0.0	289.8	-11.1	78653.9	12.4	17176.0
	0.0	305.5	-12.1	78354.9	13.4	17466.6
	0.0	165.6	-3.5	81115.9	4.8	14767.0
	0.0	181.2	-4.4	80816.9	5.7	15057.6
	0.0	183.7	-4.6	80724.5	6.0	15160.1
	0.0	199.4	-5.6	80425.5	6.9	15450.8
323.	0.0	-5239.3	4.1	116972.7	-668.8	-404611.1
	0.0	-5227.4	3.2	117019.2	-513.4	-402111.4

	0.0	-5225.6	3.0	117009.4	-481.4	-401672.2
	0.0	-5213.7	2.0	117055.9	-326.0	-399172.6
	0.0	-5319.9	10.6	116686.5	-1729.0	-421570.1
	0.0	-5307.9	9.7	116733.0	-1573.6	-419070.4
	0.0	-5306.2	9.5	116723.2	-1541.6	-418631.2
	0.0	-5294.2	8.5	116769.7	-1386.2	-416131.6
	0.0	-5066.1	-10.0	117674.5	1625.0	-368044.4
	0.0	-5054.1	-10.9	117721.0	1780.4	-365544.7
	0.0	-5052.4	-11.1	117711.2	1812.4	-365105.5
	0.0	-5040.5	-12.1	117757.7	1967.8	-362605.9
	0.0	-5146.6	-3.5	117388.3	564.8	-385003.4
	0.0	-5134.7	-4.4	117434.8	720.2	-382503.7
	0.0	-5133.0	-4.6	117425.0	752.2	-382064.5
	0.0	-5121.0	-5.6	117471.5	907.6	-379564.9
Asta	89	nod1	81	82		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	5521.2	4.2	-7824.3	673.4	-376075.9
	0.0	5537.4	3.2	-9882.8	516.9	-378218.0
	0.0	5540.0	3.0	-10329.6	484.8	-378540.0
	0.0	5556.1	2.0	-12388.1	328.4	-380682.1
	0.0	5411.8	10.8	6245.8	1740.1	-361591.7
	0.0	5428.0	9.8	4187.3	1583.7	-363733.8
	0.0	5430.6	9.6	3740.5	1551.6	-364055.8
	0.0	5446.7	8.6	1682.0	1395.2	-366197.9
	0.0	5757.0	-10.1	-38215.0	-1635.3	-407239.1
	0.0	5773.2	-11.1	-40273.5	-1791.7	-409381.2
	0.0	5775.8	-11.3	-40720.3	-1823.8	-409703.3
	0.0	5791.9	-12.3	-42778.8	-1980.2	-411845.4
	0.0	5647.6	-3.5	-24144.9	-568.6	-392754.9
	0.0	5663.8	-4.5	-26203.4	-725.0	-394897.0
	0.0	5666.4	-4.7	-26650.2	-757.1	-395219.1
	0.0	5682.5	-5.7	-28708.7	-913.5	-397361.2
162.	0.0	74.5	4.2	27660.0	1.2	77672.1
	0.0	87.9	3.2	25910.5	1.2	77904.5
	0.0	90.0	3.0	25524.6	1.0	77961.6
	0.0	103.5	2.0	23775.0	1.1	78193.9
	0.0	-16.3	10.8	39623.6	1.2	76079.4
	0.0	-2.9	9.8	37874.0	1.2	76311.7
	0.0	-0.8	9.6	37488.1	1.0	76368.9
	0.0	12.6	8.6	35738.5	1.1	76601.2
	0.0	270.1	-10.1	1843.2	-1.6	81142.7
	0.0	283.6	-11.1	93.7	-1.5	81375.0
	0.0	285.7	-11.3	-292.3	-1.7	81432.2
	0.0	299.1	-12.2	-2041.8	-1.7	81664.5
	0.0	179.3	-3.5	13806.7	-1.6	79550.0
	0.0	192.7	-4.5	12057.2	-1.5	79782.3
	0.0	194.8	-4.7	11671.2	-1.7	79839.5
	0.0	208.2	-5.6	9921.7	-1.7	80071.8
323.	0.0	-5438.5	4.2	64128.0	-672.4	-355524.6
	0.0	-5426.4	3.2	62625.2	-516.0	-353247.8
	0.0	-5424.6	3.0	62286.4	-484.1	-352873.4
	0.0	-5412.6	2.0	60783.6	-327.6	-350596.6
	0.0	-5519.7	10.8	74410.4	-1739.2	-370938.3
	0.0	-5507.7	9.8	72907.7	-1582.7	-368661.6
	0.0	-5505.8	9.6	72568.8	-1550.9	-368287.1
	0.0	-5493.8	8.6	71066.0	-1394.4	-366010.4
	0.0	-5263.7	-10.1	41966.9	1633.5	-322309.8
	0.0	-5251.6	-11.1	40464.1	1790.0	-320033.0
	0.0	-5249.8	-11.3	40125.3	1821.8	-319658.6
	0.0	-5237.8	-12.3	38622.5	1978.3	-317381.8
	0.0	-5344.9	-3.5	52249.3	566.7	-337723.5
	0.0	-5332.9	-4.5	50746.6	723.2	-335446.8
	0.0	-5331.0	-4.7	50407.7	755.1	-335072.3
	0.0	-5319.0	-5.7	48904.9	911.5	-332795.6
Asta	90	nod1	82	83		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	5398.4	4.1	-63046.7	669.2	-336210.0
	0.0	5412.6	3.2	-65416.5	512.6	-338555.9
	0.0	5414.8	3.0	-65918.8	481.3	-338939.9
	0.0	5429.0	2.0	-68288.5	324.7	-341285.8
	0.0	5302.8	10.7	-46865.3	1736.5	-320333.1
	0.0	5316.9	9.8	-49235.0	1579.9	-322679.0
	0.0	5319.2	9.6	-49737.4	1548.6	-323063.0
	0.0	5333.3	8.6	-52107.1	1391.9	-325408.9
	0.0	5604.5	-10.1	-97909.3	-1630.5	-370344.3
	0.0	5618.7	-11.1	-100279.0	-1787.2	-372690.2
	0.0	5620.9	-11.2	-100781.4	-1818.5	-373074.2
	0.0	5635.0	-12.2	-103151.1	-1975.1	-375420.1
	0.0	5508.9	-3.5	-81727.9	-563.3	-354467.5
	0.0	5523.0	-4.4	-84097.6	-719.9	-356813.4
	0.0	5525.3	-4.6	-84600.0	-751.2	-357197.3
	0.0	5539.4	-5.6	-86969.7	-907.8	-359543.2
162.	0.0	-108.2	4.1	-26559.1	5.6	90910.4
	0.0	-94.9	3.2	-28752.2	5.7	90770.0
	0.0	-92.8	3.0	-29222.7	5.1	90734.4
	0.0	-79.4	2.0	-31415.7	5.2	90593.9
	0.0	-198.2	10.7	-11579.8	5.1	91869.8
	0.0	-184.8	9.7	-13772.8	5.3	91729.3
	0.0	-182.7	9.6	-14243.3	4.6	91693.7

	0.0	-169.4	8.6	-16436.4	4.7	91553.3
	0.0	85.6	-10.1	-58798.4	-4.7	88908.2
	0.0	98.9	-11.0	-60991.4	-4.6	88767.7
	0.0	101.0	-11.2	-61461.9	-5.2	88732.1
	0.0	114.4	-12.2	-63655.0	-5.1	88591.7
	0.0	-4.4	-3.5	-43819.0	-5.2	89867.5
	0.0	8.9	-4.4	-46012.1	-5.1	89727.1
	0.0	11.0	-4.6	-46482.5	-5.7	89691.5
	0.0	24.4	-5.6	-48675.6	-5.6	89551.0
323.	0.0	-5548.0	4.1	8984.1	-663.8	-367626.4
	0.0	-5534.2	3.2	6889.7	-506.9	-365594.3
	0.0	-5532.0	3.0	6434.3	-476.5	-365285.6
	0.0	-5518.3	2.0	4339.9	-319.6	-363253.6
	0.0	-5640.9	10.7	23294.0	-1732.0	-381351.5
	0.0	-5627.2	9.8	21199.6	-1575.1	-379319.4
	0.0	-5625.0	9.6	20744.3	-1544.7	-379010.7
	0.0	-5611.2	8.6	18649.9	-1387.8	-376978.6
	0.0	-5348.0	-10.1	-21778.4	1626.4	-338018.5
	0.0	-5334.2	-11.1	-23872.7	1783.3	-335986.4
	0.0	-5332.0	-11.2	-24328.1	1813.7	-335677.7
	0.0	-5318.3	-12.2	-26422.5	1970.6	-333645.7
	0.0	-5440.9	-3.5	-7468.4	558.2	-351743.6
	0.0	-5427.2	-4.4	-9562.8	715.1	-349711.5
	0.0	-5425.0	-4.6	-10018.1	745.5	-349402.8
	0.0	-5411.2	-5.6	-12112.5	902.4	-347370.8
Asta	91	nod	83	84		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	5289.0	4.1	-132597.2	662.4	-357625.0
	0.0	5302.8	3.1	-134443.9	505.1	-360235.5
	0.0	5304.9	2.9	-134827.9	474.9	-360693.6
	0.0	5318.6	2.0	-136674.5	317.5	-363304.2
	0.0	5196.2	10.7	-120008.8	1732.6	-339940.4
	0.0	5210.0	9.8	-121855.4	1575.2	-342550.9
	0.0	5212.1	9.6	-122239.4	1545.0	-343009.0
	0.0	5225.8	8.6	-124086.1	1387.7	-345619.5
	0.0	5489.0	-10.1	-159663.8	-1625.7	-395551.4
	0.0	5502.7	-11.1	-161510.4	-1783.1	-398161.9
	0.0	5504.8	-11.2	-161894.4	-1813.3	-398620.1
	0.0	5518.6	-12.2	-163741.1	-1970.6	-401230.6
	0.0	5396.2	-3.4	-147075.3	-555.6	-377866.8
	0.0	5409.9	-4.4	-148922.0	-712.9	-380477.3
	0.0	5412.0	-4.6	-149306.0	-743.1	-380935.4
	0.0	5425.8	-5.6	-151152.6	-900.5	-383545.9
162.	0.0	-6.4	4.1	-99281.7	-1.5	66909.2
	0.0	8.7	3.1	-101101.0	-1.1	66611.0
	0.0	11.1	2.9	-101485.0	-0.9	66514.9
	0.0	26.3	2.0	-103304.4	-0.6	66216.7
	0.0	-108.6	10.7	-86875.7	-3.0	68969.7
	0.0	-93.5	9.7	-88695.0	-2.7	68671.5
	0.0	-91.0	9.6	-89079.1	-2.4	68575.5
	0.0	-75.9	8.6	-90898.4	-2.1	68277.2
	0.0	213.4	-10.1	-125918.4	1.5	62613.3
	0.0	228.5	-11.0	-127737.7	1.8	62315.1
	0.0	230.9	-11.2	-128121.7	2.1	62219.0
	0.0	246.0	-12.2	-129941.1	2.4	61920.8
	0.0	111.2	-3.4	-113512.4	0.0	64673.9
	0.0	126.3	-4.4	-115331.7	0.3	64375.6
	0.0	128.7	-4.6	-115715.8	0.5	64279.6
	0.0	143.9	-5.6	-117535.1	0.9	63981.4
323.	0.0	-5067.4	4.1	-69498.8	-665.4	-347052.0
	0.0	-5048.9	3.1	-71355.5	-507.3	-344662.5
	0.0	-5045.8	2.9	-71753.2	-476.7	-344312.8
	0.0	-5027.4	2.0	-73609.9	-318.6	-341923.3
	0.0	-5192.0	10.7	-56833.8	-1738.6	-363165.3
	0.0	-5173.6	9.8	-58690.6	-1580.5	-360775.8
	0.0	-5170.5	9.6	-59088.3	-1549.9	-360426.1
	0.0	-5152.1	8.6	-60945.0	-1391.8	-358036.6
	0.0	-4799.8	-10.1	-96653.6	1628.7	-312291.7
	0.0	-4781.4	-11.1	-98510.3	1786.7	-309902.2
	0.0	-4778.2	-11.2	-98908.0	1817.4	-309552.5
	0.0	-4759.8	-12.2	-100764.7	1975.4	-307163.0
	0.0	-4924.5	-3.4	-83988.6	555.5	-328405.0
	0.0	-4906.0	-4.4	-85845.3	713.5	-326015.5
	0.0	-4902.9	-4.6	-86243.0	744.2	-325665.8
	0.0	-4884.5	-5.6	-88099.8	902.2	-323276.3
Asta	92	nod	84	85		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	5890.6	4.1	-238358.9	664.4	-345921.3
	0.0	5904.9	3.1	-238744.1	506.9	-348269.3
	0.0	5907.1	2.9	-238812.6	476.2	-348713.8
	0.0	5921.5	2.0	-239197.8	318.7	-351061.8
	0.0	5793.9	10.7	-235738.9	1732.7	-329989.7
	0.0	5808.2	9.7	-236124.1	1575.3	-332337.7
	0.0	5810.5	9.5	-236192.6	1544.5	-332782.2
	0.0	5824.8	8.5	-236577.8	1387.1	-335130.2
	0.0	6098.6	-10.0	-244173.1	-1621.3	-379998.4
	0.0	6112.9	-11.0	-244558.3	-1778.7	-382346.4
	0.0	6115.2	-11.1	-244626.8	-1809.5	-382790.9
	0.0	6129.5	-12.1	-245012.0	-1966.9	-385138.9

162.	0.0	6001.9	-3.4	-241553.1	-552.9	-364066.8
	0.0	6016.2	-4.4	-241938.3	-710.4	-366414.8
	0.0	6018.5	-4.6	-242006.8	-741.1	-366859.3
	0.0	6032.8	-5.5	-242392.0	-898.6	-369207.3
	0.0	1156.3	4.1	-214160.5	2.8	218647.2
	0.0	1175.5	3.1	-214623.7	1.8	218976.3
	0.0	1178.8	2.9	-214714.3	1.7	218985.0
	0.0	1198.0	2.0	-215177.5	0.7	219314.1
	0.0	1026.6	10.7	-211004.9	9.4	216470.0
	0.0	1045.8	9.7	-211468.1	8.4	216799.1
	0.0	1049.2	9.5	-211558.6	8.2	216807.8
	0.0	1068.3	8.5	-212021.8	7.2	217136.8
	0.0	1434.3	-10.0	-221086.2	-9.4	223462.1
	0.0	1453.4	-10.9	-221549.5	-10.3	223791.2
	0.0	1456.8	-11.1	-221640.0	-10.5	223799.9
	0.0	1476.0	-12.1	-222103.2	-11.5	224129.0
	0.0	1304.6	-3.4	-217930.6	-2.8	221284.9
	0.0	1323.8	-4.4	-218393.8	-3.8	221614.0
	0.0	1327.1	-4.6	-218484.3	-3.9	221622.7
	0.0	1346.3	-5.5	-218947.5	-4.9	221951.8
323.	0.0	-3244.0	4.1	-197577.2	-659.3	46466.3
	0.0	-3217.9	3.1	-198134.8	-503.8	50429.0
	0.0	-3212.9	2.9	-198250.7	-473.4	51109.7
	0.0	-3186.8	2.0	-198808.3	-317.9	55072.4
	0.0	-3420.8	10.7	-193773.7	-1714.5	19647.6
	0.0	-3394.8	9.7	-194331.3	-1559.0	23610.3
	0.0	-3389.7	9.5	-194447.2	-1528.6	24290.9
	0.0	-3363.7	8.5	-195004.8	-1373.1	28253.6
	0.0	-2866.2	-10.0	-205861.9	1603.0	103995.0
	0.0	-2840.2	-11.0	-206419.6	1758.5	107957.7
	0.0	-2835.1	-11.1	-206535.4	1789.0	108638.4
	0.0	-2809.1	-12.1	-207093.1	1944.4	112601.1
	0.0	-3043.1	-3.4	-202058.4	547.9	77176.2
	0.0	-3017.0	-4.4	-202616.1	703.3	81138.9
	0.0	-3012.0	-4.6	-202731.9	733.8	81819.6
	0.0	-2985.9	-5.5	-203289.6	889.2	85782.3
Asta PROGR. 0.	93	nod	85	47		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	0.0	-1034.9	6.7	29209.6	663.4	149685.7
	0.0	-1012.0	5.1	29156.0	507.3	147458.8
	0.0	-1008.0	4.8	29155.6	476.7	146996.0
	0.0	-985.2	3.2	29102.0	320.6	144769.1
	0.0	-1189.4	17.4	29559.0	1722.7	164830.5
	0.0	-1166.6	15.8	29505.4	1566.6	162603.6
	0.0	-1162.5	15.5	29505.0	1536.1	162140.8
	0.0	-1139.7	13.9	29451.4	1380.0	159913.9
	0.0	-703.9	-16.3	28402.6	-1610.3	117543.5
	0.0	-681.1	-17.9	28349.0	-1766.4	115316.5
	0.0	-677.0	-18.2	28348.6	-1797.0	114853.7
	0.0	-654.2	-19.7	28295.0	-1953.0	112626.8
	0.0	-858.4	-5.6	28752.0	-551.0	132688.3
	0.0	-835.6	-7.2	28698.4	-707.0	130461.3
	0.0	-831.6	-7.5	28698.0	-737.6	129998.5
	0.0	-808.7	-9.0	28644.4	-893.7	127771.6
88.	0.0	-3211.8	6.7	28792.4	77.9	-38174.0
	0.0	-3186.2	5.1	28742.4	59.9	-38265.9
	0.0	-3181.5	4.8	28741.3	56.0	-38348.2
	0.0	-3155.9	3.2	28691.3	38.0	-38440.1
	0.0	-3385.4	17.4	29118.8	200.6	-37497.3
	0.0	-3359.8	15.8	29068.8	182.5	-37589.1
	0.0	-3355.1	15.5	29067.7	178.7	-37671.5
	0.0	-3329.5	13.9	29017.7	160.7	-37763.3
	0.0	-2840.6	-16.3	28039.0	-185.9	-39428.5
	0.0	-2815.0	-17.9	27989.0	-203.9	-39520.4
	0.0	-2810.3	-18.2	27988.0	-207.8	-39602.7
	0.0	-2784.7	-19.7	27938.0	-225.8	-39694.6
	0.0	-3014.2	-5.6	28365.4	-63.2	-38751.8
	0.0	-2988.6	-7.1	28315.4	-81.3	-38843.7
	0.0	-2983.9	-7.5	28314.4	-85.1	-38926.0
	0.0	-2958.3	-9.0	28264.4	-103.1	-39017.9
175.	0.0	-5101.2	6.7	28679.0	-507.5	-404111.2
	0.0	-5075.0	5.1	28632.0	-387.5	-401921.0
	0.0	-5070.2	4.8	28630.3	-364.6	-401573.1
	0.0	-5044.0	3.2	28583.4	-244.6	-399382.9
	0.0	-5278.7	17.4	28985.8	-1321.4	-418906.7
	0.0	-5252.5	15.8	28938.9	-1201.3	-416716.4
	0.0	-5247.7	15.5	28937.1	-1178.5	-416368.6
	0.0	-5221.5	13.9	28890.2	-1058.5	-414178.4
	0.0	-4721.6	-16.3	27971.3	1238.2	-372204.7
	0.0	-4695.4	-17.9	27924.4	1358.3	-370014.5
	0.0	-4690.6	-18.2	27922.6	1381.1	-369666.6
	0.0	-4664.4	-19.7	27875.7	1501.1	-367476.4
	0.0	-4899.1	-5.6	28278.1	424.4	-387000.2
	0.0	-4872.9	-7.2	28231.2	544.4	-384809.9
	0.0	-4868.1	-7.5	28229.5	567.3	-384462.1
	0.0	-4841.9	-9.0	28182.6	687.3	-382271.9
Asta PROGR. 0.	94	nod	47	86		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	0.0	2236.4	3.0	-15789.8	494.1	84256.3

	0.0	2256.2	2.3	-17162.7	377.2	80301.8
	0.0	2259.4	2.1	-17433.4	354.7	79656.5
	0.0	2279.2	1.4	-18806.2	237.7	75702.0
	0.0	2102.6	7.7	-6469.1	1287.0	110980.6
	0.0	2122.4	7.0	-7842.0	1170.0	107026.1
	0.0	2125.6	6.9	-8112.7	1147.5	106380.7
	0.0	2145.4	6.2	-9485.5	1030.6	102426.2
	0.0	2523.7	-7.2	-35762.7	-1206.1	26831.8
	0.0	2543.5	-7.9	-37135.5	-1323.0	22877.3
	0.0	2546.7	-8.1	-37406.2	-1345.5	22231.9
	0.0	2566.5	-8.8	-38779.1	-1462.4	18277.4
	0.0	2389.9	-2.5	-26442.0	-413.2	53556.1
	0.0	2409.7	-3.2	-27814.8	-530.2	49601.6
	0.0	2412.9	-3.3	-28085.5	-552.7	48956.2
	0.0	2432.7	-4.0	-29458.4	-669.6	45001.7
173.	0.0	-1249.7	3.0	-1093.2	-15.8	172269.0
	0.0	-1230.4	2.3	-2605.1	-12.0	171657.0
	0.0	-1227.4	2.1	-2909.6	-11.1	171542.3
	0.0	-1208.1	1.4	-4421.5	-7.3	170930.4
	0.0	-1380.2	7.7	9178.0	-41.4	176414.1
	0.0	-1360.9	7.0	7666.1	-37.6	175802.2
	0.0	-1357.9	6.9	7361.7	-36.7	175687.4
	0.0	-1338.5	6.2	5849.8	-32.9	175075.5
	0.0	-969.3	-7.2	-23080.6	38.7	163363.5
	0.0	-950.0	-7.9	-24592.5	42.5	162751.5
	0.0	-947.0	-8.0	-24897.0	43.5	162636.8
	0.0	-927.6	-8.7	-26408.9	47.2	162024.9
	0.0	-1099.8	-2.5	-12809.4	13.1	167508.6
	0.0	-1080.5	-3.2	-14321.3	16.9	166896.7
	0.0	-1077.4	-3.3	-14625.8	17.8	166781.9
345.	0.0	-1058.1	-4.0	-16137.7	21.6	166170.0
	0.0	-5015.9	3.0	13559.2	-526.0	-363808.0
	0.0	-4994.1	2.3	11847.2	-401.5	-360912.6
	0.0	-4990.5	2.1	11496.7	-377.0	-360465.8
	0.0	-4968.6	1.4	9784.7	-252.5	-357570.4
	0.0	-5163.6	7.7	25195.9	-1370.6	-383359.1
	0.0	-5141.8	7.0	23483.9	-1246.0	-380463.7
	0.0	-5138.2	6.9	23133.4	-1221.6	-380016.9
	0.0	-5116.3	6.2	21421.4	-1097.0	-377121.5
	0.0	-4698.8	-7.2	-11331.0	1284.3	-321798.5
	0.0	-4676.9	-7.9	-13043.0	1408.8	-318903.1
	0.0	-4673.3	-8.1	-13393.5	1433.3	-318456.4
	0.0	-4651.5	-8.8	-15105.5	1557.8	-315560.9
	0.0	-4846.5	-2.5	305.7	439.7	-341349.6
	0.0	-4824.6	-3.2	-1406.3	564.2	-338454.2
	0.0	-4821.0	-3.3	-1756.8	588.7	-338007.5
	0.0	-4799.2	-4.0	-3468.9	713.2	-335112.0
Asta	95	nodl	86	67		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4840.5	3.1	-105420.6	533.3	-331208.9
	0.0	4853.4	2.3	-103556.8	407.1	-332956.9
	0.0	4855.1	2.2	-103150.0	382.4	-333264.9
	0.0	4868.0	1.5	-101286.1	256.2	-335012.8
	0.0	4753.8	8.0	-118119.4	1388.6	-319383.6
	0.0	4766.7	7.3	-116255.6	1262.4	-321131.5
	0.0	4768.4	7.1	-115848.7	1237.6	-321439.6
	0.0	4781.3	6.4	-113984.9	1111.4	-323187.5
	0.0	5027.6	-7.5	-78384.4	-1300.7	-356600.8
	0.0	5040.5	-8.2	-76520.6	-1426.9	-358348.7
	0.0	5042.2	-8.3	-76113.7	-1451.6	-358656.8
	0.0	5055.1	-9.1	-74249.9	-1577.8	-360404.7
	0.0	4940.9	-2.6	-91083.2	-445.5	-344775.5
	0.0	4953.8	-3.3	-89219.4	-571.7	-346523.4
	0.0	4955.5	-3.4	-88812.5	-596.4	-346831.4
	0.0	4968.4	-4.2	-86948.7	-722.6	-348579.4
170.	0.0	926.6	3.1	-92791.6	12.1	160668.4
	0.0	944.1	2.3	-91122.5	9.1	161474.0
	0.0	947.0	2.2	-90760.1	8.2	161548.7
	0.0	964.5	1.5	-89091.0	5.3	162354.4
	0.0	808.3	8.0	-104162.2	32.6	155267.4
	0.0	825.8	7.2	-102493.1	29.7	156073.1
	0.0	828.7	7.1	-102130.7	28.8	156147.7
	0.0	846.2	6.4	-100461.6	25.8	156953.4
	0.0	1180.7	-7.5	-68581.3	-30.8	172345.4
	0.0	1198.2	-8.2	-66912.2	-33.8	173151.1
	0.0	1201.0	-8.3	-66549.8	-34.7	173225.8
	0.0	1218.5	-9.0	-64880.7	-37.6	174031.4
	0.0	1062.4	-2.6	-79951.9	-10.3	166944.4
	0.0	1079.9	-3.3	-78282.8	-13.2	167750.1
	0.0	1082.7	-3.4	-77920.4	-14.1	167824.8
	0.0	1100.2	-4.1	-76251.3	-17.1	168630.4
340.	0.0	-3115.9	3.1	-83805.8	-509.0	-22872.8
	0.0	-3092.0	2.3	-82265.9	-388.7	-18558.3
	0.0	-3087.3	2.2	-81933.8	-365.8	-17851.7
	0.0	-3063.4	1.5	-80393.9	-245.6	-13537.1
	0.0	-3278.1	8.0	-94294.7	-1322.8	-52046.1
	0.0	-3254.2	7.3	-92754.8	-1202.5	-47731.5
	0.0	-3249.6	7.1	-92422.7	-1179.6	-47024.9
	0.0	-3225.7	6.4	-90882.7	-1059.3	-42710.3
	0.0	-2768.8	-7.5	-61470.9	1238.6	39744.5

	0.0	-2744.9	-8.2	-59931.0	1358.8	44059.0
	0.0	-2740.3	-8.3	-59598.8	1381.7	44765.7
	0.0	-2716.4	-9.1	-58058.9	1502.0	49080.2
	0.0	-2931.1	-2.6	-71959.8	424.8	10571.3
	0.0	-2907.2	-3.3	-70419.9	545.0	14885.8
	0.0	-2902.5	-3.4	-70087.7	567.9	15592.5
	0.0	-2878.6	-4.2	-68547.8	688.2	19907.0
Asta	96	nod	60	57		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-2114.9	-1.4	658.5	-189.8	122552.4
	0.0	-2129.5	-1.0	475.8	-144.9	124696.7
	0.0	-2132.7	-1.0	436.8	-135.9	125157.0
	0.0	-2147.3	-0.7	254.1	-91.1	127301.4
	0.0	-2015.4	-3.5	1901.2	-493.4	107953.1
	0.0	-2030.0	-3.2	1718.6	-448.5	110097.4
	0.0	-2033.2	-3.1	1679.5	-439.5	110557.7
	0.0	-2047.8	-2.8	1496.8	-394.7	112702.0
	0.0	-2327.0	3.3	-1992.4	461.9	153677.5
	0.0	-2341.6	3.6	-2175.0	506.8	155821.8
	0.0	-2344.8	3.7	-2214.1	515.8	156282.1
	0.0	-2359.4	4.0	-2396.8	560.6	158426.5
	0.0	-2227.5	1.1	-749.6	158.3	139078.2
	0.0	-2242.1	1.5	-932.3	203.1	141222.5
	0.0	-2245.3	1.5	-971.3	212.2	141682.8
	0.0	-2259.9	1.8	-1154.0	257.0	143827.1
140.	0.0	67.4	-1.4	765.5	0.1	-21235.8
	0.0	51.8	-1.0	582.8	0.2	-21241.9
	0.0	48.4	-1.0	543.6	0.0	-21244.4
	0.0	32.7	-0.6	360.9	0.0	-21250.6
	0.0	174.1	-3.5	2008.3	0.1	-21193.2
	0.0	158.4	-3.2	1825.6	0.1	-21199.4
	0.0	155.1	-3.1	1786.3	0.0	-21201.8
	0.0	139.4	-2.8	1603.6	0.0	-21208.0
	0.0	-160.0	3.3	-1885.5	0.0	-21325.9
	0.0	-175.6	3.6	-2068.2	0.0	-21332.1
	0.0	-179.0	3.7	-2107.4	-0.1	-21334.6
	0.0	-194.7	4.0	-2290.1	-0.1	-21340.8
	0.0	-53.3	1.1	-642.7	0.0	-21283.3
	0.0	-69.0	1.4	-825.4	0.0	-21289.5
	0.0	-72.3	1.5	-864.7	-0.2	-21292.0
	0.0	-88.0	1.8	-1047.4	-0.2	-21298.2
280.	0.0	2240.8	-1.4	884.4	189.9	141069.1
	0.0	2226.2	-1.0	698.9	145.1	138914.8
	0.0	2223.1	-1.0	658.8	135.8	138451.9
	0.0	2208.5	-0.7	473.3	91.0	136297.6
	0.0	2340.0	-3.5	2146.6	493.4	155737.6
	0.0	2325.4	-3.2	1961.1	448.6	153583.3
	0.0	2322.3	-3.1	1921.0	439.3	153120.4
	0.0	2307.7	-2.8	1735.5	394.5	150966.1
	0.0	2029.2	3.3	-1808.1	-461.8	109797.8
	0.0	2014.7	3.6	-1993.7	-506.6	107643.4
	0.0	2011.5	3.7	-2033.7	-515.9	107180.6
	0.0	1997.0	4.0	-2219.3	-560.7	105026.2
	0.0	2128.5	1.1	-545.9	-158.3	124466.3
	0.0	2113.9	1.5	-731.5	-203.1	122312.0
	0.0	2110.8	1.5	-771.5	-212.3	121849.1
	0.0	2096.2	1.8	-957.0	-257.2	119694.8
Asta	97	nod	61	56		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-2573.8	-1.3	1530.7	-177.1	159258.3
	0.0	-2579.3	-1.0	1657.2	-135.1	160064.7
	0.0	-2580.6	-0.9	1683.6	-126.0	160255.8
	0.0	-2586.0	-0.6	1810.1	-84.0	161062.2
	0.0	-2536.7	-3.3	665.1	-462.2	153754.7
	0.0	-2542.1	-3.0	791.7	-420.3	154561.2
	0.0	-2543.4	-2.9	818.0	-411.1	154752.2
	0.0	-2548.9	-2.6	944.6	-369.2	155558.6
	0.0	-2652.4	3.1	3390.1	431.9	170905.6
	0.0	-2657.8	3.4	3516.7	473.9	171712.0
	0.0	-2659.2	3.5	3543.0	483.0	171903.1
	0.0	-2664.6	3.8	3669.6	525.0	172709.5
	0.0	-2615.3	1.0	2524.6	146.7	165402.0
	0.0	-2620.7	1.3	2651.1	188.7	166208.4
	0.0	-2622.0	1.4	2677.5	197.8	166399.5
	0.0	-2627.5	1.7	2804.0	239.8	167205.9
140.	0.0	63.0	-1.3	384.2	0.3	-17314.8
	0.0	57.0	-1.0	509.1	0.3	-17323.4
	0.0	55.6	-0.9	535.1	0.2	-17327.0
	0.0	49.6	-0.6	659.9	0.2	-17335.7
	0.0	103.8	-3.3	-469.8	0.2	-17258.1
	0.0	97.8	-3.0	-344.9	0.2	-17266.8
	0.0	96.4	-2.9	-319.0	0.1	-17270.4
	0.0	90.4	-2.6	-194.1	0.2	-17279.0
	0.0	-23.5	3.1	2218.9	-0.2	-17435.3
	0.0	-29.5	3.4	2343.8	-0.2	-17444.0
	0.0	-30.9	3.4	2369.8	-0.3	-17447.5
	0.0	-36.9	3.7	2494.6	-0.2	-17456.2
	0.0	17.4	1.0	1364.9	-0.3	-17378.7
	0.0	11.4	1.3	1489.8	-0.2	-17387.4

	0.0	10.0	1.4	1515.8	-0.3	-17390.9
	0.0	4.0	1.7	1640.6	-0.3	-17399.6
280.	0.0	2695.3	-1.3	-756.2	177.3	176731.4
	0.0	2689.8	-1.0	-631.1	135.3	175907.3
	0.0	2688.5	-0.9	-605.1	126.1	175710.6
	0.0	2683.1	-0.6	-480.0	84.2	174886.6
	0.0	2732.4	-3.3	-1612.0	462.3	182347.6
	0.0	2726.9	-3.0	-1486.9	420.4	181523.5
	0.0	2725.6	-2.9	-1460.9	411.1	181326.8
	0.0	2720.2	-2.6	-1335.8	369.2	180502.8
	0.0	2616.7	3.1	1082.4	-431.9	164842.5
	0.0	2611.3	3.4	1207.5	-473.9	164018.4
	0.0	2610.0	3.5	1233.5	-483.1	163821.7
	0.0	2604.6	3.8	1358.6	-525.1	162997.7
	0.0	2653.8	1.0	226.6	-146.9	170458.7
	0.0	2648.4	1.3	351.7	-188.9	169634.6
	0.0	2647.1	1.4	377.7	-198.1	169437.9
	0.0	2641.7	1.7	502.8	-240.1	168613.9
Asta	98	nod	62	55		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-2845.1	-1.3	6620.2	-175.8	137503.1
	0.0	-2845.0	-1.0	6835.2	-134.6	137451.2
	0.0	-2845.0	-0.9	6876.3	-124.4	137447.3
	0.0	-2844.9	-0.6	7091.2	-83.3	137395.4
	0.0	-2845.9	-3.3	5150.7	-455.8	137857.0
	0.0	-2845.8	-3.0	5365.7	-414.6	137805.1
	0.0	-2845.8	-2.9	5406.8	-404.4	137801.2
	0.0	-2845.7	-2.6	5621.8	-363.3	137749.3
	0.0	-2842.8	3.0	9786.9	425.3	136650.9
	0.0	-2842.7	3.3	10001.9	466.4	136599.0
	0.0	-2842.7	3.4	10043.0	476.6	136595.1
	0.0	-2842.6	3.7	10257.9	517.8	136543.2
	0.0	-2843.5	1.0	8317.4	145.3	137004.8
	0.0	-2843.4	1.3	8532.4	186.5	136952.9
	0.0	-2843.4	1.4	8573.5	196.6	136949.0
	0.0	-2843.3	1.7	8788.5	237.8	136897.1
140.	0.0	83.6	-1.3	6071.7	0.2	-55818.3
	0.0	83.8	-1.0	6284.1	0.2	-55846.5
	0.0	83.8	-0.9	6324.7	0.0	-55853.7
	0.0	84.0	-0.6	6537.1	0.0	-55881.9
	0.0	82.3	-3.3	4619.7	0.3	-55628.3
	0.0	82.5	-3.0	4832.1	0.3	-55656.6
	0.0	82.5	-2.9	4872.7	0.1	-55663.7
	0.0	82.7	-2.6	5085.2	0.1	-55691.9
	0.0	87.5	3.0	9200.6	-0.1	-56214.6
	0.0	87.7	3.3	9413.0	-0.1	-56242.8
	0.0	87.7	3.4	9453.6	-0.3	-56249.9
	0.0	87.8	3.7	9666.0	-0.3	-56278.2
	0.0	86.1	1.0	7748.6	0.0	-56024.6
	0.0	86.3	1.3	7961.1	0.0	-56052.8
	0.0	86.3	1.4	8001.7	-0.2	-56060.0
	0.0	86.5	1.7	8214.1	-0.2	-56088.2
280.	0.0	2996.0	-1.3	5618.0	176.1	160187.9
	0.0	2996.2	-1.0	5831.1	135.0	160183.5
	0.0	2996.1	-0.9	5871.9	124.5	160168.1
	0.0	2996.3	-0.6	6085.1	83.3	160163.8
	0.0	2995.1	-3.3	4160.9	456.2	160208.9
	0.0	2995.3	-3.0	4374.0	415.0	160204.5
	0.0	2995.2	-2.9	4414.8	404.6	160189.2
	0.0	2995.4	-2.6	4627.9	363.4	160184.8
	0.0	2998.8	3.0	8758.0	-425.4	160372.8
	0.0	2999.0	3.3	8971.1	-466.6	160368.4
	0.0	2998.9	3.4	9011.9	-477.1	160353.0
	0.0	2999.1	3.7	9225.1	-518.2	160348.7
	0.0	2997.9	1.0	7300.8	-145.4	160393.8
	0.0	2998.0	1.3	7514.0	-186.5	160389.4
	0.0	2998.0	1.4	7554.8	-197.0	160374.1
	0.0	2998.1	1.7	7767.9	-238.1	160369.7
Asta	99	nod	63	54		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-3091.1	-1.3	25179.4	-176.9	143788.2
	0.0	-3085.6	-1.0	25345.7	-135.7	142850.9
	0.0	-3084.5	-0.9	25377.5	-126.7	142656.6
	0.0	-3079.0	-0.6	25543.8	-85.6	141719.3
	0.0	-3128.7	-3.3	24042.6	-456.6	150193.4
	0.0	-3123.2	-3.0	24208.9	-415.5	149256.1
	0.0	-3122.0	-2.9	24240.7	-406.5	149061.8
	0.0	-3116.5	-2.6	24407.0	-365.3	148124.5
	0.0	-3009.3	3.1	27636.1	427.9	129849.1
	0.0	-3003.8	3.3	27802.4	469.1	128911.7
	0.0	-3002.6	3.4	27834.1	478.1	128717.5
	0.0	-2997.1	3.7	28000.4	519.3	127780.1
	0.0	-3046.9	1.1	26499.3	148.2	136254.2
	0.0	-3041.4	1.3	26665.5	189.3	135316.9
	0.0	-3040.2	1.4	26697.3	198.3	135122.6
	0.0	-3034.7	1.7	26863.6	239.5	134185.3
140.	0.0	-25.5	-1.3	24928.1	-0.4	-73064.6
	0.0	-19.2	-1.0	25092.0	-0.3	-73149.8
	0.0	-17.9	-0.9	25123.2	-0.5	-73167.4

	0.0	-11.5	-0.6	25287.0	-0.4	-73252.6
	0.0	-69.0	-3.3	23807.8	-1.1	-72485.7
	0.0	-62.6	-3.0	23971.7	-1.0	-72571.0
	0.0	-61.3	-2.9	24002.9	-1.2	-72588.5
	0.0	-55.0	-2.6	24166.7	-1.1	-72673.7
	0.0	69.2	3.0	27349.1	1.3	-74306.3
	0.0	75.6	3.3	27513.0	1.4	-74391.5
	0.0	76.9	3.4	27544.2	1.2	-74409.0
	0.0	83.2	3.7	27708.1	1.3	-74494.2
	0.0	25.8	1.1	26228.8	0.6	-73727.4
	0.0	32.1	1.3	26392.7	0.7	-73812.6
	0.0	33.4	1.4	26423.9	0.5	-73830.1
	0.0	39.8	1.7	26587.8	0.6	-73915.4
280.	0.0	2931.2	-1.3	25065.9	175.9	131531.0
	0.0	2936.8	-1.0	25229.9	135.0	132304.4
	0.0	2937.9	-0.9	25261.1	125.8	132460.3
	0.0	2943.6	-0.6	25425.1	84.8	133233.8
	0.0	2892.6	-3.3	23944.6	454.4	126235.3
	0.0	2898.2	-3.0	24108.6	413.5	127008.7
	0.0	2899.4	-2.9	24139.8	404.2	127164.6
	0.0	2905.0	-2.6	24303.8	363.3	127938.1
	0.0	3015.3	3.1	27489.2	-425.5	143100.1
	0.0	3021.0	3.3	27653.2	-466.5	143873.6
	0.0	3022.1	3.4	27684.3	-475.7	144029.5
	0.0	3027.7	3.7	27848.3	-516.6	144802.9
	0.0	2976.8	1.1	26367.9	-147.1	137804.4
	0.0	2982.4	1.3	26531.9	-188.0	138577.9
	0.0	2983.5	1.4	26563.1	-197.3	138733.8
	0.0	2989.2	1.7	26727.1	-238.2	139507.2
Asta	100	nod1	64	53		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-3786.9	-1.3	46193.6	-177.5	230448.4
	0.0	-3776.3	-1.0	46153.2	-136.0	228610.6
	0.0	-3774.1	-0.9	46143.0	-127.0	228225.3
	0.0	-3763.5	-0.6	46102.5	-85.5	226387.5
	0.0	-3859.1	-3.3	46470.0	-459.7	243001.6
	0.0	-3848.5	-3.0	46429.6	-418.2	241163.8
	0.0	-3846.3	-3.0	46419.3	-409.1	240778.5
	0.0	-3835.7	-2.7	46378.9	-367.7	238940.8
	0.0	-3630.1	3.1	45588.3	430.7	203212.6
	0.0	-3619.5	3.4	45547.8	472.2	201374.8
	0.0	-3617.3	3.5	45537.6	481.3	200989.5
	0.0	-3606.7	3.8	45497.2	522.8	199151.7
	0.0	-3702.3	1.1	45864.7	148.6	215765.8
	0.0	-3691.8	1.4	45824.2	190.1	213928.1
	0.0	-3689.5	1.4	45814.0	199.1	213542.7
	0.0	-3678.9	1.7	45773.6	240.6	211705.0
140.	0.0	-741.8	-1.3	46979.0	3.0	-82007.5
	0.0	-730.1	-1.0	46938.4	2.3	-82253.8
	0.0	-727.7	-0.9	46928.0	2.1	-82304.1
	0.0	-716.0	-0.6	46887.4	1.4	-82550.3
	0.0	-821.5	-3.3	47256.4	7.6	-80328.3
	0.0	-809.8	-3.0	47215.8	6.9	-80574.6
	0.0	-807.4	-3.0	47205.4	6.8	-80624.8
	0.0	-795.7	-2.7	47164.8	6.1	-80871.1
	0.0	-568.7	3.1	46371.7	-7.1	-85638.8
	0.0	-557.1	3.4	46331.1	-7.8	-85885.0
	0.0	-554.6	3.5	46320.7	-8.0	-85935.3
	0.0	-543.0	3.8	46280.1	-8.7	-86181.6
	0.0	-648.4	1.1	46649.1	-2.5	-83959.6
	0.0	-636.8	1.4	46608.5	-3.2	-84205.8
	0.0	-634.3	1.4	46598.1	-3.3	-84256.1
	0.0	-622.7	1.7	46557.5	-4.0	-84502.3
280.	0.0	1913.8	-1.3	48497.9	183.4	3960.5
	0.0	1924.4	-1.0	48456.5	140.5	5295.8
	0.0	1926.6	-0.9	48445.8	131.1	5574.6
	0.0	1937.2	-0.6	48404.4	88.3	6909.9
	0.0	1841.6	-3.3	48780.6	475.0	-5168.1
	0.0	1852.2	-3.0	48739.2	432.1	-3832.8
	0.0	1854.4	-3.0	48728.6	422.7	-3554.0
	0.0	1864.9	-2.7	48687.2	379.9	-2218.7
	0.0	2070.7	3.1	47879.1	-445.1	23794.6
	0.0	2081.3	3.4	47837.7	-488.0	25129.9
	0.0	2083.5	3.5	47827.1	-497.4	25408.7
	0.0	2094.0	3.8	47785.7	-540.3	26744.0
	0.0	1998.5	1.1	48161.9	-153.5	14666.0
	0.0	2009.0	1.4	48120.5	-196.4	16001.3
	0.0	2011.2	1.4	48109.8	-205.8	16280.2
	0.0	2021.8	1.7	48068.4	-248.7	17615.5
Asta	101	nod1	65	52		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-4324.1	-0.5	2959.7	-122.5	360404.4
	0.0	-4314.8	-0.4	2508.6	-93.7	358557.2
	0.0	-4312.8	-0.3	2424.0	-87.9	358167.9
	0.0	-4303.5	-0.2	1972.9	-59.2	356320.7
	0.0	-4387.9	-1.3	6043.6	-317.5	373016.7
	0.0	-4378.5	-1.1	5592.5	-288.7	371169.5
	0.0	-4376.5	-1.1	5507.9	-282.9	370780.2
	0.0	-4367.2	-1.0	5056.8	-254.2	368933.0

	0.0	-4186.0	1.2	-3734.3	297.7	333080.4
	0.0	-4176.7	1.3	-4185.4	326.4	331233.2
	0.0	-4174.7	1.3	-4270.0	332.3	330843.9
	0.0	-4165.3	1.4	-4721.1	361.0	328996.6
	0.0	-4249.7	0.4	-650.3	102.7	345692.7
	0.0	-4240.4	0.5	-1101.4	131.4	343845.4
	0.0	-4238.4	0.5	-1186.0	137.3	343456.2
	0.0	-4229.1	0.7	-1637.1	166.0	341608.9
147.	0.0	-1543.3	-0.5	4723.1	-51.2	-65064.1
	0.0	-1534.1	-0.4	4286.6	-39.2	-65509.7
	0.0	-1532.1	-0.3	4204.9	-36.7	-65602.4
	0.0	-1522.9	-0.2	3768.5	-24.7	-66048.0
	0.0	-1606.6	-1.2	7706.7	-132.6	-62024.2
	0.0	-1597.3	-1.1	7270.3	-120.6	-62469.8
	0.0	-1595.4	-1.1	7188.5	-118.1	-62562.5
	0.0	-1586.1	-1.0	6752.1	-106.1	-63008.1
	0.0	-1406.2	1.2	-1753.3	124.3	-71638.3
	0.0	-1396.9	1.3	-2189.7	136.3	-72083.9
	0.0	-1395.0	1.3	-2271.4	138.8	-72176.6
	0.0	-1385.7	1.4	-2707.9	150.8	-72622.2
	0.0	-1469.5	0.4	1230.4	42.9	-68598.5
	0.0	-1460.2	0.5	793.9	54.9	-69044.1
	0.0	-1458.3	0.5	712.2	57.4	-69136.8
	0.0	-1449.0	0.7	275.8	69.3	-69582.4
294.	0.0	689.6	-0.5	6567.7	19.3	-122023.1
	0.0	697.3	-0.4	6138.5	14.8	-121209.5
	0.0	698.9	-0.3	6058.2	13.9	-121039.2
	0.0	706.6	-0.2	5628.9	9.4	-120225.5
	0.0	637.0	-1.2	9502.5	50.1	-127584.3
	0.0	644.7	-1.1	9073.2	45.6	-126770.7
	0.0	646.3	-1.1	8992.9	44.7	-126600.4
	0.0	654.0	-1.0	8563.6	40.2	-125786.7
	0.0	803.8	1.2	197.5	-47.1	-109950.2
	0.0	811.5	1.3	-231.7	-51.6	-109136.6
	0.0	813.1	1.3	-312.0	-52.5	-108966.2
	0.0	820.8	1.4	-741.3	-57.0	-108152.6
	0.0	751.1	0.4	3132.2	-16.3	-115511.4
	0.0	758.8	0.5	2703.0	-20.8	-114697.8
	0.0	760.4	0.5	2622.7	-21.7	-114527.4
	0.0	768.1	0.6	2193.4	-26.2	-113713.8
Asta	104	nod1	10	15		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	393.5	3.0	-1405.6	375.1	-52537.2
	0.0	352.9	2.3	2836.0	287.1	-51343.7
	0.0	343.6	2.1	3710.3	269.2	-51003.3
	0.0	303.0	1.4	7951.9	181.2	-49809.8
	0.0	669.0	7.7	-30306.5	972.7	-60562.9
	0.0	628.4	7.0	-26065.0	884.7	-59369.5
	0.0	619.0	6.8	-25190.7	866.8	-59029.0
	0.0	578.4	6.2	-20949.1	778.8	-57835.6
	0.0	-199.0	-7.2	61024.9	-911.5	-35411.6
	0.0	-239.6	-7.9	65266.5	-999.5	-34218.1
	0.0	-249.0	-8.0	66140.8	-1017.4	-33877.7
	0.0	-289.6	-8.7	70382.4	-1105.4	-32684.2
	0.0	76.4	-2.5	32123.9	-314.0	-43437.3
	0.0	35.8	-3.2	36365.5	-401.9	-42243.9
	0.0	26.5	-3.3	37239.8	-419.9	-41903.4
	0.0	-14.1	-4.0	41481.4	-507.8	-40710.0
130.	0.0	-220.5	3.0	3798.7	-9.9	-39472.7
	0.0	-241.9	2.3	8324.8	-7.6	-42345.7
	0.0	-247.4	2.1	9256.6	-7.2	-42984.5
	0.0	-268.8	1.4	13782.7	-4.9	-45857.5
	0.0	-76.2	7.7	-27041.8	-25.8	-19959.8
	0.0	-97.6	7.0	-22515.7	-23.5	-22832.7
	0.0	-103.2	6.8	-21584.0	-23.1	-23471.6
	0.0	-124.6	6.1	-17057.8	-20.8	-26344.5
	0.0	-529.4	-7.2	70420.0	24.3	-81497.4
	0.0	-550.8	-7.9	74946.2	26.6	-84370.4
	0.0	-556.4	-8.0	75877.9	27.0	-85009.3
	0.0	-577.7	-8.7	80404.0	29.4	-87882.2
	0.0	-385.2	-2.5	39579.5	8.4	-61984.5
	0.0	-406.5	-3.2	44105.6	10.7	-64857.5
	0.0	-412.1	-3.3	45037.3	11.1	-65496.3
	0.0	-433.5	-4.0	49563.5	13.4	-68369.3
260.	0.0	-987.7	3.0	9090.9	-395.0	-116532.5
	0.0	-985.8	2.3	14006.4	-302.4	-120722.3
	0.0	-986.2	2.1	15017.1	-283.6	-121790.2
	0.0	-984.3	1.4	19932.6	-191.0	-125980.0
	0.0	-1002.4	7.7	-24403.0	-1024.5	-88228.8
	0.0	-1000.5	7.0	-19487.5	-931.9	-92418.6
	0.0	-1000.9	6.9	-18476.8	-913.1	-93486.5
	0.0	-998.9	6.2	-13561.3	-820.5	-97676.3
	0.0	-952.9	-7.2	81444.9	960.3	-177184.6
	0.0	-950.9	-7.9	86360.4	1052.9	-181374.4
	0.0	-951.3	-8.0	87371.1	1071.7	-182442.3
	0.0	-949.4	-8.7	92286.6	1164.3	-186632.1
	0.0	-967.5	-2.5	47951.0	330.8	-148881.0
	0.0	-965.6	-3.2	52866.5	423.4	-153070.8
	0.0	-966.0	-3.3	53877.2	442.2	-154138.7
	0.0	-964.1	-4.0	58792.7	534.8	-158328.5

Asta	105	nod1	67	87		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-5776.9	-670.9	188.7	-1020.9	704.1	70734.2
	-5771.7	-649.2	205.0	-779.8	4485.2	66177.7
	-5770.3	-644.7	207.6	-734.5	5100.2	65236.9
	-5765.1	-623.0	223.9	-493.3	8881.3	60680.5
	-5812.1	-818.6	79.0	-2652.7	-24846.2	101699.2
	-5807.0	-796.8	95.2	-2411.5	-21065.1	97142.8
	-5805.5	-792.3	97.9	-2366.2	-20450.1	96202.0
	-5800.4	-770.6	114.1	-2125.0	-16669.0	91645.5
	-5702.1	-355.4	424.5	2484.2	55590.4	4560.7
	-5697.0	-333.7	440.7	2725.4	59371.5	4.2
	-5695.5	-329.2	443.4	2770.7	59986.5	-936.6
	-5690.4	-307.5	459.6	3011.9	63767.6	-5493.0
	-5737.4	-503.0	314.7	852.5	30040.1	35525.7
	-5732.2	-481.3	331.0	1093.7	33821.2	30969.3
	-5730.8	-476.8	333.6	1139.0	34436.2	30028.5
	-5725.7	-455.1	349.9	1380.2	38217.3	25472.0
165.	-5281.9	-670.9	188.7	-1020.9	-30435.6	-39967.7
	-5276.7	-649.2	205.0	-779.8	-29334.1	-40939.5
	-5275.3	-644.7	207.6	-734.5	-29155.8	-41140.2
	-5270.1	-623.0	223.9	-493.3	-28054.2	-42112.0
	-5317.1	-818.6	79.0	-2652.7	-37878.8	-33362.9
	-5312.0	-796.8	95.2	-2411.5	-36777.2	-34334.8
	-5310.5	-792.3	97.9	-2366.2	-36599.0	-34535.5
	-5305.4	-770.6	114.1	-2125.0	-35497.4	-35507.3
	-5207.1	-355.4	424.5	2484.2	-14446.2	-54082.1
	-5202.0	-333.7	440.7	2725.4	-13344.6	-55053.9
	-5200.5	-329.2	443.4	2770.7	-13166.4	-55254.6
	-5195.4	-307.5	459.6	3011.9	-12064.8	-56226.4
	-5242.4	-503.0	314.7	852.5	-21889.3	-47477.3
	-5237.2	-481.3	331.0	1093.7	-20787.8	-48449.2
	-5235.8	-476.8	333.6	1139.0	-20609.5	-48649.9
	-5230.7	-455.1	349.9	1380.2	-19508.0	-49621.7
330.	-4786.9	-670.9	188.7	-1020.9	-61575.3	-150669.5
	-4781.7	-649.2	205.0	-779.8	-63153.3	-148056.8
	-4780.3	-644.7	207.6	-734.5	-63411.8	-147517.3
	-4775.1	-623.0	223.9	-493.3	-64989.8	-144904.6
	-4822.1	-818.6	79.0	-2652.7	-50911.4	-168425.1
	-4817.0	-796.8	95.2	-2411.5	-52489.4	-165812.3
	-4815.5	-792.3	97.9	-2366.2	-52747.8	-165272.9
	-4810.4	-770.6	114.1	-2125.0	-54325.9	-162660.1
	-4712.1	-355.4	424.5	2484.2	-84482.7	-112724.8
	-4707.0	-333.7	440.7	2725.4	-86060.7	-110112.1
	-4705.5	-329.2	443.4	2770.7	-86319.2	-109572.6
	-4700.4	-307.5	459.6	3011.9	-87897.2	-106959.9
	-4747.4	-503.0	314.7	852.5	-73818.8	-130480.4
	-4742.2	-481.3	331.0	1093.7	-75396.8	-127867.6
	-4740.8	-476.8	333.6	1139.0	-75655.3	-127328.2
	-4735.7	-455.1	349.9	1380.2	-77233.3	-124715.4

Asta	106	nod1	68	88		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-8463.9	-18.3	-28.2	-1019.2	-13215.2	8606.6
	-8466.0	10.1	-24.1	-777.9	-11918.5	3189.7
	-8466.4	16.1	-23.5	-734.5	-11740.1	2063.1
	-8468.6	44.5	-19.4	-493.2	-10443.4	-3353.8
	-8449.4	-211.6	-56.0	-2650.6	-21962.5	45424.1
	-8451.5	-183.2	-51.8	-2409.3	-20665.8	40007.2
	-8451.9	-177.3	-51.3	-2366.0	-20487.4	38880.6
	-8454.1	-148.8	-47.2	-2124.7	-19190.6	33463.7
	-8495.0	394.8	31.5	2485.7	5586.1	-70061.9
	-8497.1	423.3	35.6	2727.0	6882.8	-75478.8
	-8497.5	429.2	36.1	2770.3	7061.3	-76605.4
	-8499.7	457.6	40.3	3011.7	8358.0	-82022.3
	-8480.4	201.5	3.7	854.2	-3161.2	-33244.5
	-8482.6	229.9	7.8	1095.5	-1864.4	-38661.4
	-8483.0	235.8	8.4	1138.9	-1686.0	-39787.9
	-8485.1	264.3	12.5	1380.2	-389.3	-45204.8
165.	-7968.9	-18.3	-28.2	-1019.2	-8562.4	5587.0
	-7971.0	10.1	-24.1	-777.9	-7944.6	4863.8
	-7971.4	16.1	-23.5	-734.5	-7859.8	4713.4
	-7973.6	44.5	-19.4	-493.2	-7242.1	3990.2
	-7954.4	-211.6	-56.0	-2650.6	-12729.4	10502.7
	-7956.5	-183.2	-51.8	-2409.3	-12111.7	9779.4
	-7956.9	-177.3	-51.3	-2366.0	-12026.9	9629.1
	-7959.1	-148.8	-47.2	-2124.7	-11409.1	8905.8
	-8000.0	394.8	31.5	2485.7	394.9	-4916.2
	-8002.1	423.3	35.6	2727.0	1012.6	-5639.4
	-8002.5	429.2	36.1	2770.3	1097.4	-5789.8
	-8004.7	457.6	40.3	3011.7	1715.1	-6513.0
	-7985.4	201.5	3.7	854.2	-3772.2	-0.5
	-7987.6	229.9	7.8	1095.5	-3154.4	-723.7
	-7988.0	235.8	8.4	1138.9	-3069.6	-874.1
	-7990.1	264.3	12.5	1380.2	-2451.9	-1597.3
330.	-7473.9	-18.3	-28.2	-1019.2	-3909.5	2567.4
	-7476.0	10.1	-24.1	-777.9	-3970.7	6537.8
	-7476.4	16.1	-23.5	-734.5	-3979.6	7363.7
	-7478.6	44.5	-19.4	-493.2	-4040.8	11334.1
	-7459.4	-211.6	-56.0	-2650.6	-3496.3	-24418.7

	-7461.5	-183.2	-51.8	-2409.3	-3557.6	-20448.3
	-7461.9	-177.3	-51.3	-2366.0	-3566.4	-19622.4
	-7464.1	-148.8	-47.2	-2124.7	-3627.6	-15652.0
	-7505.0	394.8	31.5	2485.7	-4796.4	60229.6
	-7507.1	423.3	35.6	2727.0	-4857.6	64200.0
	-7507.5	429.2	36.1	2770.3	-4866.5	65025.9
	-7509.7	457.6	40.3	3011.7	-4927.7	68996.3
	-7490.4	201.5	3.7	854.2	-4383.2	33243.4
	-7492.6	229.9	7.8	1095.5	-4444.4	37213.9
	-7493.0	235.8	8.4	1138.9	-4453.3	38039.7
	-7495.1	264.3	12.5	1380.2	-4514.5	42010.2
Asta	107	nod1	59	89		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-7790.8	59.1	45.2	-1072.6	143.9	2807.2
	-7787.0	88.3	44.7	-818.9	43.3	-2697.6
	-7785.9	94.5	44.1	-768.6	-82.9	-3857.3
	-7782.1	123.7	43.6	-514.8	-183.6	-9362.1
	-7817.0	-139.6	48.7	-2790.8	865.8	40228.0
	-7813.1	-110.3	48.2	-2537.1	765.2	34723.1
	-7812.1	-104.2	47.6	-2486.8	639.0	33563.5
	-7808.3	-75.0	47.2	-2233.0	538.3	28058.6
	-7734.9	483.5	37.8	2614.1	-1357.3	-77144.5
	-7731.1	512.7	37.3	2867.8	-1458.0	-82649.4
	-7730.0	518.9	36.8	2918.2	-1584.2	-83809.0
	-7726.2	548.1	36.3	3171.9	-1684.8	-89313.9
	-7761.1	284.8	41.3	895.9	-635.4	-39723.8
	-7757.3	314.1	40.8	1149.6	-736.1	-45228.6
	-7756.2	320.2	40.3	1199.9	-862.2	-46388.3
	-7752.4	349.4	39.8	1453.7	-962.9	-51893.1
165.	-7295.8	59.1	45.2	-1072.6	-7307.3	12555.7
	-7292.0	88.3	44.7	-818.9	-7326.3	11872.3
	-7290.9	94.5	44.1	-768.6	-7363.9	11728.2
	-7287.1	123.7	43.6	-514.8	-7382.9	11044.7
	-7322.0	-139.6	48.7	-2790.8	-7166.5	17201.9
	-7318.1	-110.3	48.2	-2537.1	-7185.5	16518.4
	-7317.1	-104.2	47.6	-2486.8	-7223.0	16374.3
	-7313.3	-75.0	47.2	-2233.0	-7242.0	15690.8
	-7239.9	483.5	37.8	2614.1	-7595.8	2629.2
	-7236.1	512.7	37.3	2867.8	-7614.8	1945.8
	-7235.0	518.9	36.8	2918.2	-7652.3	1801.7
	-7231.2	548.1	36.3	3171.9	-7671.3	1118.2
	-7266.1	284.8	41.3	895.9	-7454.9	7275.3
	-7262.3	314.1	40.8	1149.6	-7474.0	6591.9
	-7261.2	320.2	40.3	1199.9	-7511.5	6447.8
	-7257.4	349.4	39.8	1453.7	-7530.5	5764.3
330.	-6800.8	59.1	45.2	-1072.6	-14759.2	22304.2
	-6797.0	88.3	44.7	-818.9	-14696.5	26442.2
	-6795.9	94.5	44.1	-768.6	-14644.6	27313.6
	-6792.1	123.7	43.6	-514.8	-14581.9	31451.5
	-6827.0	-139.6	48.7	-2790.8	-15199.4	-5824.2
	-6823.1	-110.3	48.2	-2537.1	-15136.8	-1686.3
	-6822.1	-104.2	47.6	-2486.8	-15084.8	-814.9
	-6818.3	-75.0	47.2	-2233.0	-15022.1	3323.1
	-6744.9	483.5	37.8	2614.1	-13834.5	82403.0
	-6741.1	512.7	37.3	2867.8	-13771.8	86540.9
	-6740.0	518.9	36.8	2918.2	-13719.9	87412.4
	-6736.2	548.1	36.3	3171.9	-13657.2	91550.3
	-6771.1	284.8	41.3	895.9	-14274.7	54274.5
	-6767.3	314.1	40.8	1149.6	-14212.1	58412.4
	-6766.2	320.2	40.3	1199.9	-14160.1	59283.9
	-6762.4	349.4	39.8	1453.7	-14097.5	63421.8
Asta	108	nod1	58	90		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-7772.0	-305.4	66.2	-1077.0	5257.8	43598.0
	-7772.6	-276.3	60.8	-823.4	3948.2	38104.3
	-7772.6	-270.1	59.2	-768.8	3586.2	36939.0
	-7773.2	-240.9	53.8	-515.2	2276.5	31445.3
	-7767.8	-503.7	103.5	-2793.3	14159.1	80943.2
	-7768.4	-474.5	98.0	-2539.7	12849.5	75449.5
	-7768.4	-468.3	96.5	-2485.1	12487.5	74284.2
	-7769.0	-439.2	91.0	-2231.6	11177.8	68790.5
	-7780.8	118.2	-13.6	2610.5	-13810.0	-36199.5
	-7781.4	147.4	-19.0	2864.0	-15119.6	-41693.2
	-7781.3	153.6	-20.6	2918.6	-15481.6	-42858.5
	-7781.9	182.7	-26.0	3172.2	-16791.3	-48352.2
	-7776.6	-80.1	23.7	894.1	-4908.7	1145.8
	-7777.2	-50.9	18.2	1147.7	-6218.3	-4347.9
	-7777.2	-44.7	16.7	1202.3	-6580.3	-5513.3
	-7777.8	-15.5	11.2	1455.9	-7890.0	-11006.9
165.	-7277.0	-305.4	66.2	-1077.0	-5671.4	-6797.0
	-7277.6	-276.3	60.8	-823.4	-6076.6	-7478.5
	-7277.6	-270.1	59.2	-768.8	-6188.6	-7622.9
	-7278.2	-240.9	53.8	-515.2	-6593.9	-8304.4
	-7272.8	-503.7	103.5	-2793.3	-2917.4	-2164.3
	-7273.4	-474.5	98.0	-2539.7	-3322.7	-2845.8
	-7273.4	-468.3	96.5	-2485.1	-3434.7	-2990.2
	-7274.0	-439.2	91.0	-2231.6	-3839.9	-3671.7
	-7285.8	118.2	-13.6	2610.5	-11571.9	-16695.5
	-7286.4	147.4	-19.0	2864.0	-11977.1	-17377.0

		-7286.3	153.6	-20.6	2918.6	-12089.2	-17521.4
		-7286.9	182.7	-26.0	3172.2	-12494.4	-18202.9
		-7281.6	-80.1	23.7	894.1	-8817.9	-12062.8
		-7282.2	-50.9	18.2	1147.7	-9223.2	-12744.3
		-7282.2	-44.7	16.7	1202.3	-9335.2	-12888.8
		-7282.8	-15.5	11.2	1455.9	-9740.5	-13570.2
330.		-6782.0	-305.4	66.2	-1077.0	-16600.5	-57191.9
		-6782.6	-276.3	60.8	-823.4	-16101.4	-53061.2
		-6782.6	-270.1	59.2	-768.8	-15963.5	-52184.8
		-6783.2	-240.9	53.8	-515.2	-15464.3	-48054.1
		-6777.8	-503.7	103.5	-2793.3	-19993.9	-85271.8
		-6778.4	-474.5	98.0	-2539.7	-19494.8	-81141.1
		-6778.4	-468.3	96.5	-2485.1	-19356.9	-80264.7
		-6779.0	-439.2	91.0	-2231.6	-18857.7	-76134.0
		-6790.8	118.2	-13.6	2610.5	-9333.8	2808.5
		-6791.4	147.4	-19.0	2864.0	-8834.6	6939.2
		-6791.3	153.6	-20.6	2918.6	-8696.7	7815.6
		-6791.9	182.7	-26.0	3172.2	-8197.5	11946.4
		-6786.6	-80.1	23.7	894.1	-12727.2	-25271.4
		-6787.2	-50.9	18.2	1147.7	-12228.0	-21140.6
		-6787.2	-44.7	16.7	1202.3	-12090.1	-20264.2
		-6787.8	-15.5	11.2	1455.9	-11590.9	-16133.5
Asta	109	nod1	69	91			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-8482.4	-221.7	20.3	-1025.9	2090.0	37103.0	
	-8480.0	-193.2	13.1	-785.3	-198.0	31667.6	
	-8479.5	-187.1	11.3	-730.6	-763.7	30502.5	
	-8477.1	-158.5	4.0	-490.0	-3051.7	25067.1	
	-8498.4	-415.8	69.5	-2653.8	17599.7	74048.5	
	-8496.0	-387.2	62.3	-2413.2	15311.7	68613.0	
	-8495.5	-381.1	60.5	-2358.5	14746.0	67448.0	
	-8493.1	-352.6	53.2	-2117.9	12458.0	62012.5	
	-8448.1	193.0	-85.2	2478.5	-31212.9	-41862.0	
	-8445.7	221.6	-92.5	2719.2	-33500.9	-47297.5	
	-8445.2	227.7	-94.3	2773.8	-34066.5	-48462.5	
	-8442.8	256.3	-101.5	3014.5	-36354.6	-53898.0	
	-8464.1	-1.0	-36.1	850.6	-15703.1	-4916.6	
	-8461.7	27.5	-43.3	1091.2	-17991.1	-10352.0	
	-8461.2	33.6	-45.1	1145.9	-18556.8	-11517.1	
165.	-8458.8	62.2	-52.4	1386.5	-20844.8	-16952.5	
	-7987.4	-221.7	20.3	-1025.9	-1266.8	518.1	
	-7985.0	-193.2	13.1	-785.3	-2357.9	-206.7	
	-7984.5	-187.1	11.3	-730.6	-2627.3	-362.2	
	-7982.1	-158.5	4.0	-490.0	-3718.4	-1087.0	
	-8003.4	-415.8	69.5	-2653.8	6129.8	5444.4	
	-8001.0	-387.2	62.3	-2413.2	5038.7	4719.7	
	-8000.5	-381.1	60.5	-2358.5	4769.3	4564.2	
	-7998.1	-352.6	53.2	-2117.9	3678.3	3839.4	
	-7953.1	193.0	-85.2	2478.5	-17148.2	-10011.4	
	-7950.7	221.6	-92.5	2719.2	-18239.3	-10736.1	
	-7950.2	227.7	-94.3	2773.8	-18508.7	-10891.6	
	-7947.8	256.3	-101.5	3014.5	-19599.7	-11616.4	
	-7969.1	-1.0	-36.1	850.6	-9751.6	-5085.0	
	-7966.7	27.5	-43.3	1091.2	-10842.7	-5809.7	
	-7966.2	33.6	-45.1	1145.9	-11112.0	-5965.2	
	-7963.8	62.2	-52.4	1386.5	-12203.1	-6690.0	
330.	-7492.4	-221.7	20.3	-1025.9	-4623.7	-36066.9	
	-7490.0	-193.2	13.1	-785.3	-4517.8	-32081.1	
	-7489.5	-187.1	11.3	-730.6	-4490.8	-31226.9	
	-7487.1	-158.5	4.0	-490.0	-4385.0	-27241.1	
	-7508.4	-415.8	69.5	-2653.8	-5340.2	-63159.6	
	-7506.0	-387.2	62.3	-2413.2	-5234.4	-59173.7	
	-7505.5	-381.1	60.5	-2358.5	-5207.4	-58319.6	
	-7503.1	-352.6	53.2	-2117.9	-5101.5	-54333.7	
	-7458.1	193.0	-85.2	2478.5	-3083.6	21839.3	
	-7455.7	221.6	-92.5	2719.2	-2977.7	25825.2	
	-7455.2	227.7	-94.3	2773.8	-2950.8	26679.3	
	-7452.8	256.3	-101.5	3014.5	-2844.9	30665.2	
	-7474.1	-1.0	-36.1	850.6	-3800.1	-5253.3	
	-7471.7	27.5	-43.3	1091.2	-3694.3	-1267.5	
	-7471.2	33.6	-45.1	1145.9	-3667.3	-413.3	
	-7468.8	62.2	-52.4	1386.5	-3561.5	3572.5	
Asta	110	nod1	70	92			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-5747.8	487.2	352.3	-1020.6	38867.5	-32230.1	
	-5750.0	509.2	330.3	-779.9	33724.3	-36848.8	
	-5750.2	514.0	325.1	-729.2	32511.9	-37842.3	
	-5752.4	536.0	303.1	-488.5	27368.6	-42460.9	
	-5733.1	337.6	501.5	-2652.0	73727.2	-838.2	
	-5735.2	359.6	479.5	-2411.3	68583.9	-5456.9	
	-5735.5	364.3	474.3	-2360.6	67371.6	-6450.3	
	-5737.6	386.3	452.3	-2119.8	62228.3	-11069.0	
	-5778.7	807.1	32.0	2482.2	-35995.7	-99337.3	
	-5780.8	829.1	10.0	2722.9	-41139.0	-103955.9	
	-5781.0	833.9	4.8	2773.6	-42351.3	-104949.4	
	-5783.2	855.9	-17.2	3014.3	-47494.6	-109568.1	
	-5763.9	657.5	181.2	850.8	-1136.0	-67945.3	
	-5766.0	679.5	159.1	1091.5	-6279.3	-72564.0	
	-5766.3	684.2	154.0	1142.2	-7491.7	-73557.4	

165.	-5768.4	706.2	132.0	1383.0	-12634.9	-78176.1
	-5252.8	487.2	352.3	-1020.6	-19265.1	48161.6
	-5255.0	509.2	330.3	-779.9	-20777.2	47175.7
	-5255.2	514.0	325.1	-729.2	-21134.4	46963.6
	-5257.4	536.0	303.1	-488.5	-22646.5	45977.8
	-5238.1	337.6	501.5	-2652.0	-9016.5	54862.0
	-5240.2	359.6	479.5	-2411.3	-10528.6	53876.2
	-5240.5	364.3	474.3	-2360.6	-10885.8	53664.1
	-5242.6	386.3	452.3	-2119.8	-12397.9	52678.3
	-5283.7	807.1	32.0	2482.2	-41274.7	33837.9
	-5285.8	829.1	10.0	2722.9	-42786.7	32852.1
	-5286.0	833.9	4.8	2773.6	-43144.0	32640.0
	-5288.2	855.9	-17.2	3014.3	-44656.1	31654.2
	-5268.9	657.5	181.2	850.8	-31026.1	40538.4
	-5271.0	679.5	159.1	1091.5	-32538.2	39552.6
	-5271.3	684.2	154.0	1142.2	-32895.4	39340.5
	-5273.4	706.2	132.0	1383.0	-34407.5	38354.6
330.	-4757.8	487.2	352.3	-1020.6	-77397.7	128553.3
	-4760.0	509.2	330.3	-779.9	-75278.6	131200.3
	-4760.2	514.0	325.1	-729.2	-74780.7	131769.5
	-4762.4	536.0	303.1	-488.5	-72661.7	134416.6
	-4743.1	337.6	501.5	-2652.0	-91760.2	110562.2
	-4745.2	359.6	479.5	-2411.3	-89641.2	113209.3
	-4745.5	364.3	474.3	-2360.6	-89143.3	113778.5
	-4747.6	386.3	452.3	-2119.8	-87024.2	116425.5
	-4788.7	807.1	32.0	2482.2	-46553.6	167013.1
	-4790.8	829.1	10.0	2722.9	-44434.5	169660.2
	-4791.0	833.9	4.8	2773.6	-43936.6	170229.4
	-4793.2	855.9	-17.2	3014.3	-41817.6	172876.4
	-4773.9	657.5	181.2	850.8	-60916.1	149022.1
	-4776.0	679.5	159.1	1091.5	-58797.0	151669.1
	-4776.3	684.2	154.0	1142.2	-58299.1	152238.3
	-4778.4	706.2	132.0	1383.0	-56180.1	154885.4
Asta	111	71	93			
	PROGR.	TYT	TZZ	TORS	MYT	MZZ
	0.					
165.	-9783.1	1036.6	90.0	-1061.2	16177.1	-84196.4
	-9792.0	1057.4	58.7	-810.7	9846.5	-87850.2
	-9794.0	1061.9	51.4	-757.9	8354.3	-88643.2
	-9802.9	1082.7	20.1	-507.4	2023.7	-92297.0
	-9722.3	895.2	302.2	-2760.4	59084.5	-59339.9
	-9731.2	916.0	270.9	-2509.9	52754.0	-62993.7
	-9733.2	920.5	263.5	-2457.1	51261.7	-63786.7
	-9742.1	941.3	232.2	-2206.6	44931.2	-67440.5
	-9912.9	1338.5	-365.6	2582.4	-75965.1	-137269.6
	-9921.9	1359.3	-396.9	2832.9	-82295.7	-140923.3
	-9923.8	1363.8	-404.2	2885.6	-83787.9	-141716.4
	-9932.7	1384.6	-435.5	3136.1	-90118.5	-145370.1
	-9852.1	1197.1	-153.4	883.2	-33057.6	-112413.1
	-9861.1	1217.9	-184.7	1133.7	-39388.2	-116066.8
	-9863.0	1222.4	-192.1	1186.4	-40880.4	-116859.8
	-9871.9	1243.2	-223.4	1436.9	-47211.0	-120513.6
	-9288.1	1036.6	90.0	-1061.2	1323.4	86844.9
	-9297.0	1057.4	58.7	-810.7	157.3	86620.4
	-9299.0	1061.9	51.4	-757.9	-118.6	86571.1
	-9307.9	1082.7	20.1	-507.4	-1284.7	86346.6
	-9227.3	895.2	302.2	-2760.4	9227.3	88370.5
	-9236.2	916.0	270.9	-2509.9	8061.2	88146.0
	-9238.2	920.5	263.5	-2457.1	7785.3	88096.6
	-9247.1	941.3	232.2	-2206.6	6619.2	87872.1
	-9417.9	1338.5	-365.6	2582.4	-15649.0	83580.4
	-9426.9	1359.3	-396.9	2832.9	-16815.1	83355.9
	-9428.8	1363.8	-404.2	2885.6	-17091.0	83306.5
	-9437.7	1384.6	-435.5	3136.1	-18257.1	83082.0
	-9357.1	1197.1	-153.4	883.2	-7745.0	85105.9
	-9366.1	1217.9	-184.7	1133.7	-8911.1	84881.4
	-9368.0	1222.4	-192.1	1186.4	-9187.1	84832.0
	-9376.9	1243.2	-223.4	1436.9	-10353.1	84607.5
330.	-8793.1	1036.6	90.0	-1061.2	-13530.3	257886.3
	-8802.0	1057.4	58.7	-810.7	-9531.9	261091.0
	-8804.0	1061.9	51.4	-757.9	-8591.6	261785.3
	-8812.9	1082.7	20.1	-507.4	-4593.2	264990.1
	-8732.3	895.2	302.2	-2760.4	-40629.9	236080.9
	-8741.2	916.0	270.9	-2509.9	-36631.5	239285.7
	-8743.2	920.5	263.5	-2457.1	-35691.2	239979.9
	-8752.1	941.3	232.2	-2206.6	-31692.7	243184.7
	-8922.9	1338.5	-365.6	2582.4	44667.1	304430.3
	-8931.9	1359.3	-396.9	2832.9	48665.6	307635.1
	-8933.8	1363.8	-404.2	2885.6	49605.9	308329.3
	-8942.7	1384.6	-435.5	3136.1	53604.3	311534.1
	-8862.1	1197.1	-153.4	883.2	17567.6	282624.9
	-8871.1	1217.9	-184.7	1133.7	21566.0	285829.7
	-8873.0	1222.4	-192.1	1186.4	22506.3	286524.0
	-8881.9	1243.2	-223.4	1436.9	26504.7	289728.7
Asta	112	50	94			
	PROGR.	TYT	TZZ	TORS	MYT	MZZ
	0.					
165.	-11398.6	679.2	-176.4	-1098.1	-6057.3	-46428.3
	-11399.8	695.2	-200.2	-839.2	-11520.6	-49163.1
	-11400.1	698.8	-205.8	-783.9	-12812.3	-49780.2
	-11401.2	714.8	-229.6	-525.0	-18275.6	-52515.1

	-11391.1	570.3	-15.1	-2854.9	30972.5	-27817.3
	-11392.3	586.3	-38.9	-2596.0	25509.2	-30552.2
	-11392.6	589.9	-44.5	-2540.7	24217.5	-31169.2
	-11393.7	605.9	-68.3	-2281.7	18754.2	-33904.1
	-11415.2	911.6	-522.8	2672.8	-85577.5	-86142.0
	-11416.3	927.6	-546.6	2931.7	-91040.8	-88876.9
	-11416.7	931.2	-552.3	2987.0	-92332.5	-89494.0
	-11417.8	947.2	-576.1	3245.9	-97795.8	-92228.9
	-11407.7	802.7	-361.5	916.0	-48547.7	-67531.1
	-11408.8	818.7	-385.3	1174.9	-54011.0	-70266.0
	-11409.2	822.3	-391.0	1230.2	-55302.6	-70883.0
	-11410.3	838.3	-414.8	1489.2	-60765.9	-73617.9
165.	-10903.6	679.2	-176.4	-1098.1	23050.1	65640.0
	-10904.8	695.2	-200.2	-839.2	21514.0	65546.3
	-10905.1	698.8	-205.8	-783.9	21150.4	65524.3
	-10906.2	714.8	-229.6	-525.0	19614.3	65430.6
	-10896.1	570.3	-15.1	-2854.9	33462.8	66276.2
	-10897.3	586.3	-38.9	-2596.0	31926.7	66182.4
	-10897.6	589.9	-44.5	-2540.7	31563.1	66160.5
	-10898.7	605.9	-68.3	-2281.7	30027.0	66066.7
	-10920.2	911.6	-522.8	2672.8	691.8	64274.2
	-10921.3	927.6	-546.6	2931.7	-844.3	64180.5
	-10921.7	931.2	-552.3	2987.0	-1207.9	64158.5
	-10922.8	947.2	-576.1	3245.9	-2744.0	64064.8
	-10912.7	802.7	-361.5	916.0	11104.6	64910.4
	-10913.8	818.7	-385.3	1174.9	9568.5	64816.6
	-10914.2	822.3	-391.0	1230.2	9204.9	64794.7
330.	-10915.3	838.3	-414.8	1489.2	7668.8	64700.9
	-10408.6	679.2	-176.4	-1098.1	52157.4	177708.2
	-10409.8	695.2	-200.2	-839.2	54548.6	180255.6
	-10410.1	698.8	-205.8	-783.9	55113.0	180828.8
	-10411.2	714.8	-229.6	-525.0	57504.1	183376.2
	-10401.1	570.3	-15.1	-2854.9	35953.2	160369.6
	-10402.3	586.3	-38.9	-2596.0	38344.3	162917.0
	-10402.6	589.9	-44.5	-2540.7	38908.7	163490.1
	-10403.7	605.9	-68.3	-2281.7	41299.9	166037.5
	-10425.2	911.6	-522.8	2672.8	86961.1	214690.5
	-10426.3	927.6	-546.6	2931.7	89352.2	217237.9
	-10426.7	931.2	-552.3	2987.0	89916.7	217811.1
	-10427.8	947.2	-576.1	3245.9	92307.8	220358.5
	-10417.7	802.7	-361.5	916.0	70756.8	197351.9
	-10418.8	818.7	-385.3	1174.9	73148.0	199899.3
	-10419.2	822.3	-391.0	1230.2	73712.4	200472.4
	-10420.3	838.3	-414.8	1489.2	76103.5	203019.8
Asta	113	nod	49	95		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-10309.7	-621.5	87.2	-1104.9	20483.7	53778.1
	-10314.4	-604.4	78.6	-844.0	18662.7	50915.0
	-10315.4	-600.6	76.3	-788.2	18180.4	50281.7
	-10320.1	-583.5	67.6	-527.3	16359.3	47418.7
	-10277.5	-738.2	146.0	-2875.8	32868.9	73292.0
	-10282.2	-721.1	137.4	-2614.8	31047.8	70428.9
	-10283.3	-717.3	135.1	-2559.1	30565.5	69795.6
	-10288.0	-700.2	126.4	-2298.2	28744.5	66932.5
	-10378.2	-373.0	-38.6	2689.8	-6021.0	12234.7
	-10382.9	-355.9	-47.2	2950.7	-7842.1	9371.7
	-10383.9	-352.1	-49.5	3006.5	-8324.4	8738.4
	-10388.6	-335.0	-58.2	3267.4	-10145.4	5875.3
	-10346.0	-489.7	20.2	918.9	6364.2	31748.6
	-10350.7	-472.6	11.6	1179.8	4543.1	28885.5
	-10351.7	-468.8	9.3	1235.6	4060.8	28252.2
	-10356.5	-451.7	0.6	1496.5	2239.7	25389.2
165.	-9814.7	-621.5	87.2	-1104.9	6093.3	-48772.9
	-9819.4	-604.4	78.6	-844.0	5698.6	-48810.1
	-9820.4	-600.6	76.3	-788.2	5593.9	-48818.4
	-9825.1	-583.5	67.6	-527.3	5199.2	-48855.6
	-9782.5	-738.2	146.0	-2875.8	8776.5	-48519.1
	-9787.2	-721.1	137.4	-2614.8	8381.8	-48556.3
	-9788.3	-717.3	135.1	-2559.1	8277.1	-48564.6
	-9793.0	-700.2	126.4	-2298.2	7882.5	-48601.8
	-9883.2	-373.0	-38.6	2689.8	347.5	-49313.6
	-9887.9	-355.9	-47.2	2950.7	-47.2	-49350.8
	-9888.9	-352.1	-49.5	3006.5	-151.9	-49359.1
	-9893.6	-335.0	-58.2	3267.4	-546.5	-49396.3
	-9851.0	-489.7	20.2	918.9	3030.7	-49059.8
	-9855.7	-472.6	11.6	1179.8	2636.0	-49097.0
	-9856.7	-468.8	9.3	1235.6	2531.3	-49105.3
	-9861.5	-451.7	0.6	1496.5	2136.7	-49142.5
330.	-9319.7	-621.5	87.2	-1104.9	-8297.2	-151323.9
	-9324.4	-604.4	78.6	-844.0	-7265.5	-148535.3
	-9325.4	-600.6	76.3	-788.2	-6992.6	-147918.5
	-9330.1	-583.5	67.6	-527.3	-5960.8	-145129.9
	-9287.5	-738.2	146.0	-2875.8	-15316.0	-170330.2
	-9292.2	-721.1	137.4	-2614.8	-14284.2	-167541.5
	-9293.3	-717.3	135.1	-2559.1	-14011.3	-166924.7
	-9298.0	-700.2	126.4	-2298.2	-12979.6	-164136.1
	-9388.2	-373.0	-38.6	2689.8	6715.9	-110862.0
	-9392.9	-355.9	-47.2	2950.7	7747.7	-108073.3
	-9393.9	-352.1	-49.5	3006.5	8020.6	-107456.6
	-9398.6	-335.0	-58.2	3267.4	9052.4	-104667.9

		-9356.0	-489.7	20.2	918.9	-302.8	-129868.2
		-9360.7	-472.6	11.6	1179.8	729.0	-127079.6
		-9361.7	-468.8	9.3	1235.6	1001.8	-126462.8
		-9366.5	-451.7	0.6	1496.5	2033.6	-123674.1
Asta	114	nod1	57	96			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-10713.7	-829.6	26.2	-1111.7	5017.1	92372.9	
	-10719.7	-803.1	17.7	-849.4	3280.5	87963.9	
	-10721.0	-797.5	15.4	-794.4	2807.6	87024.3	
	-10727.0	-771.0	7.0	-532.1	1071.1	82615.3	
	-10672.9	-1009.9	83.6	-2888.4	16819.0	122381.9	
	-10678.9	-983.4	75.1	-2626.1	15082.5	117972.9	
	-10680.2	-977.8	72.8	-2571.1	14609.6	117033.3	
	-10686.2	-951.3	64.4	-2308.8	12873.0	112624.3	
	-10800.7	-445.1	-96.8	2702.4	-20265.2	28354.8	
	-10806.7	-418.6	-105.3	2964.7	-22001.8	23945.8	
	-10808.0	-412.9	-107.6	3019.7	-22474.7	23006.1	
	-10814.0	-386.5	-116.0	3282.0	-24211.2	18597.1	
	-10759.9	-625.3	-39.4	925.7	-8463.3	58363.8	
	-10765.9	-598.9	-47.9	1188.0	-10199.9	53954.8	
	-10767.2	-593.2	-50.1	1243.0	-10672.8	53015.1	
	-10773.2	-566.7	-58.6	1505.3	-12409.3	48606.1	
165.	-10218.7	-829.6	26.2	-1111.7	701.4	-44516.0	
	-10224.7	-803.1	17.7	-849.4	358.7	-44555.0	
	-10226.0	-797.5	15.4	-794.4	263.6	-44562.8	
	-10232.0	-771.0	7.0	-532.1	-79.0	-44601.8	
	-10177.9	-1009.9	83.6	-2888.4	3030.1	-44250.4	
	-10183.9	-983.4	75.1	-2626.1	2687.4	-44289.4	
	-10185.2	-977.8	72.8	-2571.1	2592.3	-44297.3	
	-10191.2	-951.3	64.4	-2308.8	2249.7	-44336.3	
	-10305.7	-445.1	-96.8	2702.4	-4289.1	-45082.3	
	-10311.7	-418.6	-105.3	2964.7	-4631.8	-45121.4	
	-10313.0	-412.9	-107.6	3019.7	-4726.9	-45129.2	
	-10319.0	-386.5	-116.0	3282.0	-5069.5	-45168.2	
	-10264.9	-625.3	-39.4	925.7	-1960.5	-44816.8	
	-10270.9	-598.9	-47.9	1188.0	-2303.1	-44855.8	
	-10272.2	-593.2	-50.1	1243.0	-2398.2	-44863.7	
	-10278.2	-566.7	-58.6	1505.3	-2740.9	-44902.7	
330.	-9723.7	-829.6	26.2	-1111.7	-3614.3	-181404.8	
	-9729.7	-803.1	17.7	-849.4	-2563.1	-177073.8	
	-9731.0	-797.5	15.4	-794.4	-2280.3	-176149.9	
	-9737.0	-771.0	7.0	-532.1	-1229.1	-171819.0	
	-9682.9	-1009.9	83.6	-2888.4	-10758.9	-210882.7	
	-9688.9	-983.4	75.1	-2626.1	-9707.7	-206551.7	
	-9690.2	-977.8	72.8	-2571.1	-9424.9	-205627.8	
	-9696.2	-951.3	64.4	-2308.8	-8373.7	-201296.8	
	-9810.7	-445.1	-96.8	2702.4	11687.0	-118519.4	
	-9816.7	-418.6	-105.3	2964.7	12738.2	-114188.5	
	-9818.0	-412.9	-107.6	3019.7	13021.0	-113264.6	
	-9824.0	-386.5	-116.0	3282.0	14072.2	-108933.6	
	-9769.9	-625.3	-39.4	925.7	4542.4	-147997.3	
	-9775.9	-598.9	-47.9	1188.0	5593.6	-143666.3	
	-9777.2	-593.2	-50.1	1243.0	5876.4	-142742.5	
	-9783.2	-566.7	-58.6	1505.3	6927.6	-138411.5	
Asta	115	nod1	60	97			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-10763.0	606.7	-9.3	-1110.1	-2241.5	-55261.4	
	-10757.2	633.2	-9.4	-847.7	-2262.1	-59672.0	
	-10756.0	638.8	-10.1	-795.4	-2407.8	-60611.0	
	-10750.3	665.3	-10.1	-532.9	-2428.4	-65021.6	
	-10802.2	426.4	-8.7	-2887.7	-2053.5	-25245.3	
	-10796.4	452.9	-8.7	-2625.2	-2074.1	-29655.9	
	-10795.2	458.6	-9.4	-2572.9	-2219.8	-30594.9	
	-10789.5	485.1	-9.5	-2310.4	-2240.4	-35005.5	
	-10679.4	991.2	-10.5	2704.1	-2598.4	-119299.9	
	-10673.6	1017.7	-10.6	2966.6	-2619.0	-123710.6	
	-10672.4	1023.3	-11.3	3018.9	-2764.7	-124649.5	
	-10666.7	1049.8	-11.3	3281.4	-2785.3	-129060.2	
	-10718.6	811.0	-9.9	926.5	-2410.4	-89283.8	
	-10712.8	837.4	-9.9	1189.0	-2431.0	-93694.4	
	-10711.6	843.1	-10.6	1241.3	-2576.6	-94633.4	
	-10705.9	869.6	-10.7	1503.8	-2597.3	-99044.0	
165.	-10268.0	606.7	-9.3	-1110.1	-700.0	44840.3	
	-10262.2	633.2	-9.4	-847.7	-710.5	44799.4	
	-10261.0	638.8	-10.1	-795.4	-742.4	44790.6	
	-10255.3	665.3	-10.1	-532.9	-752.9	44749.6	
	-10307.2	426.4	-8.7	-2887.7	-618.4	45118.4	
	-10301.4	452.9	-8.7	-2625.2	-628.9	45077.5	
	-10300.2	458.6	-9.4	-2572.9	-660.9	45068.7	
	-10294.5	485.1	-9.5	-2310.4	-671.4	45027.8	
	-10184.4	991.2	-10.5	2704.1	-863.7	44246.0	
	-10178.6	1017.7	-10.6	2966.6	-874.2	44205.1	
	-10177.4	1023.3	-11.3	3018.9	-906.2	44196.3	
	-10171.7	1049.8	-11.3	3281.4	-916.7	44155.4	
	-10223.6	811.0	-9.9	926.5	-782.2	44524.2	
	-10217.8	837.4	-9.9	1189.0	-792.7	44483.2	
	-10216.6	843.1	-10.6	1241.3	-824.7	44474.5	
	-10210.9	869.6	-10.7	1503.8	-835.2	44433.5	
330.	-9773.0	606.7	-9.3	-1110.1	883.0	144941.9	

	-9767.2	633.2	-9.4	-847.7	882.6	149270.7
	-9766.0	638.8	-10.1	-795.4	965.1	150192.1
	-9760.3	665.3	-10.1	-532.9	964.7	154520.9
	-9812.2	426.4	-8.7	-2887.7	858.0	115482.1
	-9806.4	452.9	-8.7	-2625.2	857.6	119810.9
	-9805.2	458.6	-9.4	-2572.9	940.2	120732.3
	-9799.5	485.1	-9.5	-2310.4	939.8	125061.1
	-9689.4	991.2	-10.5	2704.1	828.7	207792.0
	-9683.6	1017.7	-10.6	2966.6	828.3	212120.8
	-9682.4	1023.3	-11.3	3018.9	910.9	213042.2
	-9676.7	1049.8	-11.3	3281.4	910.5	217371.0
	-9728.6	811.0	-9.9	926.5	803.8	178332.1
	-9722.8	837.4	-9.9	1189.0	803.4	182660.9
	-9721.6	843.1	-10.6	1241.3	885.9	183582.3
	-9715.9	869.6	-10.7	1503.8	885.5	187911.1
Asta	116	nod	48	98		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-10341.7	477.4	50.4	-1104.0	12628.2	-29799.9
	-10336.6	494.6	50.5	-842.9	12665.8	-32667.1
	-10335.6	498.4	49.9	-789.9	12545.4	-33297.7
	-10330.5	515.5	50.0	-528.7	12583.0	-36165.0
	-10375.8	360.5	49.9	-2875.1	12407.6	-10258.0
	-10370.8	377.6	50.0	-2614.0	12445.2	-13125.2
	-10369.7	381.4	49.4	-2560.9	12324.8	-13755.8
	-10364.7	398.6	49.5	-2299.8	12362.3	-16623.0
	-10268.8	726.4	51.6	2691.6	13143.9	-71400.8
	-10263.8	743.6	51.7	2952.8	13181.4	-74268.0
	-10262.7	747.4	51.2	3005.8	13061.0	-74898.6
	-10257.7	764.5	51.3	3267.0	13098.6	-77765.8
	-10303.0	609.4	51.1	920.6	12923.2	-51858.8
	-10298.0	626.6	51.2	1181.7	12960.8	-54726.1
	-10296.9	630.4	50.7	1234.7	12840.4	-55356.7
	-10291.9	647.5	50.8	1495.9	12877.9	-58223.9
165.	-9846.7	477.4	50.4	-1104.0	4303.9	48974.6
	-9841.6	494.6	50.5	-842.9	4326.0	48939.0
	-9840.6	498.4	49.9	-789.9	4322.3	48931.3
	-9835.5	515.5	50.0	-528.7	4344.4	48895.7
	-9880.8	360.5	49.9	-2875.1	4162.4	49217.1
	-9875.8	377.6	50.0	-2614.0	4184.5	49181.5
	-9874.7	381.4	49.4	-2560.9	4180.8	49173.9
	-9869.7	398.6	49.5	-2299.8	4202.9	49138.3
	-9773.8	726.4	51.6	2691.6	4617.1	48457.5
	-9768.8	743.6	51.7	2952.8	4639.2	48421.9
	-9767.7	747.4	51.2	3005.8	4635.5	48414.3
	-9762.7	764.5	51.3	3267.0	4657.6	48378.7
	-9808.0	609.4	51.1	920.6	4475.7	48700.1
	-9803.0	626.6	51.2	1181.7	4497.7	48664.5
	-9801.9	630.4	50.7	1234.7	4494.0	48656.8
	-9796.9	647.5	50.8	1495.9	4516.1	48621.2
330.	-9351.7	477.4	50.4	-1104.0	-3996.2	127749.1
	-9346.6	494.6	50.5	-842.9	-3989.6	130545.1
	-9345.6	498.4	49.9	-789.9	-3931.5	131160.4
	-9340.5	515.5	50.0	-528.7	-3924.9	133956.4
	-9385.8	360.5	49.9	-2875.1	-4058.6	108692.2
	-9380.8	377.6	50.0	-2614.0	-4052.0	111488.3
	-9379.7	381.4	49.4	-2560.9	-3993.9	112103.6
	-9374.7	398.6	49.5	-2299.8	-3987.3	114899.6
	-9278.8	726.4	51.6	2691.6	-3878.8	168315.8
	-9273.8	743.6	51.7	2952.8	-3872.2	171111.8
	-9272.7	747.4	51.2	3005.8	-3814.1	171727.1
	-9267.7	764.5	51.3	3267.0	-3807.5	174523.1
	-9313.0	609.4	51.1	920.6	-3941.1	149259.0
	-9308.0	626.6	51.2	1181.7	-3934.5	152055.0
	-9306.9	630.4	50.7	1234.7	-3876.4	152670.3
	-9301.9	647.5	50.8	1495.9	-3869.8	155466.3
Asta	117	nod	47	99		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-11433.4	-804.3	-357.3	-1096.2	-47587.6	67456.7
	-11434.5	-788.7	-340.0	-836.9	-43632.5	64790.1
	-11435.0	-785.3	-337.1	-787.2	-42988.8	64227.1
	-11436.1	-769.7	-319.8	-527.9	-39033.7	61560.5
	-11425.5	-911.1	-474.5	-2854.7	-74318.0	85611.3
	-11426.6	-895.4	-457.1	-2595.4	-70362.9	82944.6
	-11427.1	-892.1	-454.3	-2545.7	-69719.2	82381.7
	-11428.2	-876.4	-437.0	-2286.4	-65764.1	79715.0
	-11449.7	-576.9	-105.6	2675.2	9826.7	28758.0
	-11450.9	-561.2	-88.3	2934.6	13781.8	26091.3
	-11451.4	-557.9	-85.5	2984.2	14425.6	25528.4
	-11452.5	-542.2	-68.1	3243.6	18380.6	22861.7
	-11441.9	-683.6	-222.8	916.7	-16903.7	46912.6
	-11443.0	-667.9	-205.5	1176.1	-12948.6	44245.9
	-11443.5	-664.6	-202.6	1225.7	-12304.8	43683.0
	-11444.6	-648.9	-185.3	1485.1	-8349.8	41016.3
165.	-10938.4	-804.3	-357.3	-1096.2	11366.8	-65258.9
	-10939.5	-788.7	-340.0	-836.9	12461.2	-65339.1
	-10940.0	-785.3	-337.1	-787.2	12638.7	-65353.6
	-10941.1	-769.7	-319.8	-527.9	13733.1	-65433.8
	-10930.5	-911.1	-474.5	-2854.7	3969.8	-64715.3
	-10931.6	-895.4	-457.1	-2595.4	5064.2	-64795.5

	-10932.1	-892.1	-454.3	-2545.7	5241.8	-64809.9
	-10933.2	-876.4	-437.0	-2286.4	6336.2	-64890.1
	-10954.7	-576.9	-105.6	2675.2	27253.9	-66424.8
	-10955.9	-561.2	-88.3	2934.6	28348.3	-66505.0
	-10956.4	-557.9	-85.5	2984.2	28525.9	-66519.5
	-10957.5	-542.2	-68.1	3243.6	29620.3	-66599.7
	-10946.9	-683.6	-222.8	916.7	19856.9	-65881.2
	-10948.0	-667.9	-205.5	1176.1	20951.3	-65961.4
	-10948.5	-664.6	-202.6	1225.7	21128.9	-65975.8
	-10949.6	-648.9	-185.3	1485.1	22223.3	-66056.0
330.	-10443.4	-804.3	-357.3	-1096.2	70321.1	-197974.6
	-10444.5	-788.7	-340.0	-836.9	68554.8	-195468.3
	-10445.0	-785.3	-337.1	-787.2	68266.2	-194934.3
	-10446.1	-769.7	-319.8	-527.9	66499.9	-192428.0
	-10435.5	-911.1	-474.5	-2854.7	82257.6	-215041.9
	-10436.6	-895.4	-457.1	-2595.4	80491.3	-212535.6
	-10437.1	-892.1	-454.3	-2545.7	80202.7	-212001.6
	-10438.2	-876.4	-437.0	-2286.4	78436.4	-209495.3
	-10459.7	-576.9	-105.6	2675.2	44681.1	-161607.6
	-10460.9	-561.2	-88.3	2934.6	42914.8	-159101.3
	-10461.4	-557.9	-85.5	2984.2	42626.1	-158567.2
	-10462.5	-542.2	-68.1	3243.6	40859.9	-156061.0
	-10451.9	-683.6	-222.8	916.7	56617.5	-178674.9
	-10453.0	-667.9	-205.5	1176.1	54851.3	-176168.6
	-10453.5	-664.6	-202.6	1225.7	54562.6	-175634.5
	-10454.6	-648.9	-185.3	1485.1	52796.3	-173128.3
Asta	118	nod	86	100		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-9856.5	-1208.2	-144.2	-1059.3	-31084.7	114098.1
	-9847.5	-1187.6	-121.3	-808.6	-26468.9	110496.7
	-9845.6	-1183.3	-117.5	-759.4	-25720.3	109734.9
	-9836.6	-1162.7	-94.6	-508.6	-21104.5	106133.6
	-9917.4	-1348.0	-299.3	-2759.1	-62273.1	138606.0
	-9908.4	-1327.4	-276.4	-2508.4	-57657.3	135004.7
	-9906.6	-1323.1	-272.6	-2459.2	-56908.7	134242.9
	-9897.6	-1302.5	-249.7	-2208.5	-52292.9	130641.5
	-9726.4	-909.8	188.9	2585.0	35916.4	61801.6
	-9717.4	-889.3	211.9	2835.7	40532.2	58200.3
	-9715.5	-884.9	215.6	2884.9	41280.8	57438.4
	-9706.6	-864.4	238.6	3135.6	45896.6	53837.1
	-9787.3	-1049.6	33.8	885.1	4728.0	86309.6
	-9778.4	-1029.1	56.8	1135.9	9343.7	82708.2
	-9776.5	-1024.7	60.5	1185.1	10092.3	81946.4
	-9767.5	-1004.2	83.5	1435.8	14708.1	78345.1
165.	-9361.5	-1208.2	-144.2	-1059.3	-7287.7	-85248.1
	-9352.5	-1187.6	-121.3	-808.6	-6458.8	-85459.2
	-9350.6	-1183.3	-117.5	-759.4	-6326.6	-85501.9
	-9341.6	-1162.7	-94.6	-508.6	-5497.6	-85713.0
	-9422.4	-1348.0	-299.3	-2759.1	-12887.4	-83813.1
	-9413.4	-1327.4	-276.4	-2508.4	-12058.5	-84024.3
	-9411.6	-1323.1	-272.6	-2459.2	-11926.2	-84066.9
	-9402.6	-1302.5	-249.7	-2208.5	-11097.3	-84278.1
	-9231.4	-909.8	188.9	2585.0	4743.2	-88316.2
	-9222.4	-889.3	211.9	2835.7	5572.1	-88527.3
	-9220.5	-884.9	215.6	2884.9	5704.4	-88569.9
	-9211.6	-864.4	238.6	3135.6	6533.3	-88781.1
	-9292.3	-1049.6	33.8	885.1	-856.5	-86881.2
	-9283.4	-1029.1	56.8	1135.9	-27.6	-87092.4
	-9281.5	-1024.7	60.5	1185.1	104.7	-87135.0
	-9272.5	-1004.2	83.5	1435.8	933.6	-87346.1
330.	-8866.5	-1208.2	-144.2	-1059.3	16509.3	-284594.3
	-8857.5	-1187.6	-121.3	-808.6	13551.3	-281415.3
	-8855.6	-1183.3	-117.5	-759.4	13067.2	-280738.7
	-8846.6	-1162.7	-94.6	-508.6	10109.2	-277559.6
	-8927.4	-1348.0	-299.3	-2759.1	36498.3	-306232.4
	-8918.4	-1327.4	-276.4	-2508.4	33540.3	-303053.3
	-8916.6	-1323.1	-272.6	-2459.2	33056.3	-302376.7
	-8907.6	-1302.5	-249.7	-2208.5	30098.3	-299197.7
	-8736.4	-909.8	188.9	2585.0	-26429.9	-238433.9
	-8727.4	-889.3	211.9	2835.7	-29387.9	-235254.9
	-8725.5	-884.9	215.6	2884.9	-29872.0	-234578.3
	-8716.6	-864.4	238.6	3135.6	-32830.0	-231399.3
	-8797.3	-1049.6	33.8	885.1	-6440.9	-260072.0
	-8788.4	-1029.1	56.8	1135.9	-9398.9	-256893.0
	-8786.5	-1024.7	60.5	1185.1	-9882.9	-256216.4
	-8777.5	-1004.2	83.5	1435.8	-12840.9	-253037.3
Asta	119	nod	61	101		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-11724.4	1145.1	143.2	-1104.1	29761.1	-116480.9
	-11722.6	1153.5	143.7	-842.6	29849.2	-117863.9
	-11722.2	1155.4	143.6	-785.7	29829.5	-118186.1
	-11720.3	1163.7	144.1	-524.2	29917.7	-119569.1
	-11737.0	1088.1	139.9	-2880.7	29183.5	-107033.2
	-11735.1	1096.5	140.4	-2619.2	29271.6	-108416.2
	-11734.8	1098.4	140.3	-2562.3	29252.0	-108738.5
	-11732.9	1106.8	140.8	-2300.8	29340.1	-110121.5
	-11697.6	1266.0	150.3	2691.8	31031.3	-136519.0
	-11695.7	1274.3	150.8	2953.4	31119.4	-137902.0
	-11695.3	1276.3	150.7	3010.2	31099.8	-138224.2

0.	-11759.4	-1214.1	98.1	-1114.2	19399.4	128820.8
	-11759.6	-1214.0	88.7	-853.8	17484.0	128806.5
	-11759.6	-1213.9	86.2	-788.4	16957.5	128795.2
	-11759.8	-1213.8	76.8	-528.0	15042.0	128780.9
	-11758.3	-1214.6	161.5	-2886.3	32416.5	128911.4
	-11758.4	-1214.5	152.2	-2626.0	30501.1	128897.1
	-11758.4	-1214.4	149.6	-2560.5	29974.6	128885.8
	-11758.6	-1214.4	140.3	-2300.2	28059.2	128871.4
	-11762.6	-1213.1	-38.0	2692.9	-8527.1	128658.6
	-11762.8	-1213.0	-47.4	2953.2	-10442.6	128644.3
	-11762.8	-1213.0	-49.9	3018.7	-10969.0	128633.0
	-11763.0	-1212.9	-59.3	3279.0	-12884.5	128618.7
	-11761.4	-1213.6	25.4	920.7	4490.0	128749.2
	-11761.6	-1213.6	16.1	1181.1	2574.5	128734.9
	-11761.6	-1213.5	13.5	1246.5	2048.1	128723.6
	-11761.8	-1213.4	4.2	1506.9	132.6	128709.2
165.	-11264.4	-1214.1	98.1	-1114.2	3215.8	-71497.3
	-11264.6	-1214.0	88.7	-853.8	2840.8	-71497.5
	-11264.6	-1213.9	86.2	-788.4	2740.6	-71497.5
	-11264.8	-1213.8	76.8	-528.0	2365.6	-71497.8
	-11263.3	-1214.6	161.5	-2886.3	5764.0	-71495.2
	-11263.4	-1214.5	152.2	-2626.0	5389.0	-71495.4
	-11263.4	-1214.4	149.6	-2560.5	5288.8	-71495.5
	-11263.6	-1214.4	140.3	-2300.2	4913.8	-71495.7
	-11267.6	-1213.1	-38.0	2692.9	-2254.3	-71507.6
	-11267.8	-1213.0	-47.4	2953.2	-2629.3	-71507.8
	-11267.8	-1213.0	-49.9	3018.7	-2729.5	-71507.9
	-11268.0	-1212.9	-59.3	3279.0	-3104.5	-71508.1
	-11266.4	-1213.6	25.4	920.7	293.9	-71505.5
	-11266.6	-1213.6	16.1	1181.1	-81.1	-71505.8
	-11266.6	-1213.5	13.5	1246.5	-181.3	-71505.8
	-11266.8	-1213.4	4.2	1506.9	-556.3	-71506.1
330.	-10769.4	-1214.1	98.1	-1114.2	-12967.9	-271821.5
	-10769.6	-1214.0	88.7	-853.8	-11802.4	-271807.7
	-10769.6	-1213.9	86.2	-788.4	-11476.2	-271796.5
	-10769.8	-1213.8	76.8	-528.0	-10310.8	-271782.7
	-10768.3	-1214.6	161.5	-2886.3	-20888.6	-271908.0
	-10768.4	-1214.5	152.2	-2626.0	-19723.2	-271894.2
	-10768.4	-1214.4	149.6	-2560.5	-19397.0	-271882.9
	-10768.6	-1214.4	140.3	-2300.2	-18231.6	-271869.1
	-10772.6	-1213.1	-38.0	2692.9	4018.5	-271667.6
	-10772.8	-1213.0	-47.4	2953.2	5184.0	-271653.8
	-10772.8	-1213.0	-49.9	3018.7	5510.1	-271642.5
	-10773.0	-1212.9	-59.3	3279.0	6675.6	-271628.7
	-10771.4	-1213.6	25.4	920.7	-3902.2	-271754.0
	-10771.6	-1213.6	16.1	1181.1	-2736.8	-271740.2
	-10771.6	-1213.5	13.5	1246.5	-2410.6	-271729.0
	-10771.8	-1213.4	4.2	1506.9	-1245.2	-271715.2
Asta PROGR.	122	nod	62	104		
	PROGR.	TYT	TZZ	TORS	MYT	MZZ
	0.					
	-11770.9	1253.0	81.3	-1112.0	16185.8	-135876.5
	-11770.9	1253.1	81.9	-851.5	16304.4	-135905.9
	-11770.9	1253.2	82.0	-789.3	16331.3	-135911.6
	-11770.9	1253.3	82.6	-528.7	16449.8	-135941.1
	-11770.9	1251.9	77.1	-2885.4	15374.4	-135672.2
	-11770.9	1252.0	77.7	-2624.8	15493.0	-135701.7
	-11771.0	1252.1	77.8	-2562.7	15519.9	-135707.4
	-11771.0	1252.2	78.4	-2302.1	15638.5	-135736.9
	-11770.1	1255.5	90.3	2695.0	17936.7	-136350.3
	-11770.1	1255.7	90.9	2955.5	18055.2	-136379.8
	-11770.2	1255.7	91.1	3017.7	18082.2	-136385.5
	-11770.1	1255.9	91.7	3278.2	18200.7	-136415.0
	-11770.2	1254.4	86.1	921.6	17125.3	-136146.1
	-11770.1	1254.6	86.7	1182.2	17243.9	-136175.5
	-11770.2	1254.6	86.9	1244.3	17270.8	-136181.3
	-11770.2	1254.8	87.5	1504.9	17389.4	-136210.7
165.	-11275.9	1253.0	81.3	-1112.0	2778.6	70864.0
	-11275.9	1253.1	81.9	-851.5	2796.2	70861.0
	-11275.9	1253.2	82.0	-789.3	2797.2	70861.2
	-11275.9	1253.3	82.6	-528.7	2814.8	70858.2
	-11275.9	1251.9	77.1	-2885.4	2659.0	70884.0
	-11275.9	1252.0	77.7	-2624.8	2676.6	70881.0
	-11276.0	1252.1	77.8	-2562.7	2677.6	70881.1
	-11276.0	1252.2	78.4	-2302.1	2695.3	70878.1
	-11275.1	1255.5	90.3	2695.0	3036.1	70814.8
	-11275.1	1255.7	90.9	2955.5	3053.8	70811.8
	-11275.2	1255.7	91.1	3017.7	3054.8	70811.9
	-11275.1	1255.9	91.7	3278.2	3072.4	70808.9
	-11275.2	1254.4	86.1	921.6	2916.6	70834.8
	-11275.1	1254.6	86.7	1182.2	2934.2	70831.8
	-11275.2	1254.6	86.9	1244.3	2935.2	70831.9
	-11275.2	1254.8	87.5	1504.9	2952.8	70828.9
330.	-10780.9	1253.0	81.3	-1112.0	-10628.4	277604.3
	-10780.9	1253.1	81.9	-851.5	-10711.7	277627.8
	-10780.9	1253.2	82.0	-789.3	-10737.1	277633.9
	-10780.9	1253.3	82.6	-528.7	-10820.4	277657.4
	-10780.9	1251.9	77.1	-2885.4	-10056.2	277440.0
	-10780.9	1252.0	77.7	-2624.8	-10139.5	277463.5
	-10781.0	1252.1	77.8	-2562.7	-10164.9	277469.6

	-10781.0	1252.2	78.4	-2302.1	-10248.2	277493.1
	-10780.1	1255.5	90.3	2695.0	-11864.1	277979.9
	-10780.1	1255.7	90.9	2955.5	-11947.5	278003.4
	-10780.2	1255.7	91.1	3017.7	-11972.9	278009.5
	-10780.1	1255.9	91.7	3278.2	-12056.2	278033.0
	-10780.2	1254.4	86.1	921.6	-11291.9	277815.6
	-10780.1	1254.6	86.7	1182.2	-11375.3	277839.1
	-10780.2	1254.6	86.9	1244.3	-11400.7	277845.2
	-10780.2	1254.8	87.5	1504.9	-11484.0	277868.7
Asta	123	nod1	54	105		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-11410.4	-1118.0	-106.7	-1117.3	-11873.3	115294.3
	-11408.9	-1126.1	-116.1	-857.1	-13778.6	116622.0
	-11408.5	-1127.7	-118.8	-797.0	-14328.8	116893.2
	-11407.0	-1135.7	-128.1	-536.9	-16234.1	118220.9
	-11420.9	-1063.2	-43.3	-2887.7	1051.5	106204.5
	-11419.3	-1071.3	-52.6	-2627.6	-853.7	107532.2
	-11418.9	-1072.9	-55.3	-2567.5	-1404.0	107803.4
	-11417.4	-1080.9	-64.7	-2307.3	-3309.2	109131.2
	-11387.8	-1237.5	-242.8	2702.7	-39602.1	135099.8
	-11386.3	-1245.5	-252.1	2962.8	-41507.3	136427.5
	-11385.9	-1247.1	-254.8	3023.0	-42057.6	136698.7
	-11384.4	-1255.1	-264.2	3283.1	-43962.8	138026.4
	-11398.3	-1182.7	-179.4	932.2	-26677.3	126010.0
	-11396.7	-1190.7	-188.7	1192.4	-28582.5	127337.7
	-11396.3	-1192.3	-191.4	1252.5	-29132.8	127608.9
	-11394.8	-1200.3	-200.7	1512.6	-31038.0	128936.7
165.	-10915.4	-1118.0	-106.7	-1117.3	5732.8	-69184.0
	-10913.9	-1126.1	-116.1	-857.1	5370.0	-69177.0
	-10913.5	-1127.7	-118.8	-797.0	5265.6	-69175.8
	-10912.0	-1135.7	-128.1	-536.9	4902.8	-69168.8
	-10925.9	-1063.2	-43.3	-2887.7	8193.4	-69231.4
	-10924.3	-1071.3	-52.6	-2627.6	7830.6	-69224.4
	-10923.9	-1072.9	-55.3	-2567.5	7726.2	-69223.2
	-10922.4	-1080.9	-64.7	-2307.3	7363.4	-69216.2
	-10892.8	-1237.5	-242.8	2702.7	454.9	-69082.8
	-10891.3	-1245.5	-252.1	2962.8	92.1	-69075.9
	-10890.9	-1247.1	-254.8	3023.0	-12.3	-69074.6
	-10889.4	-1255.1	-264.2	3283.1	-375.1	-69067.6
	-10903.3	-1182.7	-179.4	932.2	2915.5	-69130.2
	-10901.7	-1190.7	-188.7	1192.4	2552.7	-69123.2
	-10901.3	-1192.3	-191.4	1252.5	2448.3	-69122.0
	-10899.8	-1200.3	-200.7	1512.6	2085.5	-69115.0
330.	-10420.4	-1118.0	-106.7	-1117.3	23338.9	-253662.2
	-10418.9	-1126.1	-116.1	-857.1	24518.5	-254976.0
	-10418.5	-1127.7	-118.8	-797.0	24860.1	-255244.7
	-10417.0	-1135.7	-128.1	-536.9	26039.6	-256558.4
	-10430.9	-1063.2	-43.3	-2887.7	15335.3	-244667.2
	-10429.3	-1071.3	-52.6	-2627.6	16514.9	-245981.0
	-10428.9	-1072.9	-55.3	-2567.5	16856.4	-246249.7
	-10427.4	-1080.9	-64.7	-2307.3	18036.0	-247563.4
	-10397.8	-1237.5	-242.8	2702.7	40511.9	-273265.5
	-10396.3	-1245.5	-252.1	2962.8	41691.5	-274579.3
	-10395.9	-1247.1	-254.8	3023.0	42033.0	-274848.0
	-10394.4	-1255.1	-264.2	3283.1	43212.6	-276161.7
	-10408.3	-1182.7	-179.4	932.2	32508.3	-264270.5
	-10406.7	-1190.7	-188.7	1192.4	33687.9	-265584.3
	-10406.3	-1192.3	-191.4	1252.5	34029.4	-265853.0
	-10404.8	-1200.3	-200.7	1512.6	35209.0	-267166.7
Asta	124	nod1	63	106		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-11651.0	1348.4	21.6	-1117.3	7880.3	-153716.1
	-11652.4	1340.6	22.1	-857.2	7979.9	-152435.2
	-11652.6	1339.0	22.0	-800.0	7956.1	-152169.6
	-11654.0	1331.2	22.5	-539.8	8055.6	-150888.7
	-11641.5	1401.6	18.0	-2886.9	7181.0	-162472.0
	-11642.9	1393.8	18.5	-2626.8	7280.5	-161191.0
	-11643.1	1392.2	18.4	-2569.6	7256.7	-160925.5
	-11644.5	1384.4	18.9	-2309.4	7356.3	-159644.6
	-11672.0	1232.7	29.7	2705.1	9484.2	-134679.9
	-11673.4	1224.9	30.2	2965.3	9583.8	-133399.0
	-11673.6	1223.3	30.1	3022.5	9560.0	-133133.5
	-11675.0	1215.5	30.6	3282.6	9659.6	-131852.5
	-11662.5	1285.9	26.1	935.5	8784.9	-143435.8
	-11663.9	1278.1	26.6	1195.7	8884.5	-142154.9
	-11664.1	1276.5	26.5	1252.9	8860.6	-141889.3
	-11665.5	1268.7	27.0	1513.0	8960.2	-140608.4
165.	-11156.0	1348.4	21.6	-1117.3	4332.6	68766.8
	-11157.4	1340.6	22.1	-857.2	4348.9	68762.8
	-11157.6	1339.0	22.0	-800.0	4317.7	68762.5
	-11159.0	1331.2	22.5	-539.8	4334.0	68758.5
	-11146.5	1401.6	18.0	-2886.9	4218.5	68793.8
	-11147.9	1393.8	18.5	-2626.8	4234.7	68789.7
	-11148.1	1392.2	18.4	-2569.6	4203.6	68789.5
	-11149.5	1384.4	18.9	-2309.4	4219.9	68785.4
	-11177.0	1232.7	29.7	2705.1	4598.8	68709.7
	-11178.4	1224.9	30.2	2965.3	4615.1	68705.7
	-11178.6	1223.3	30.1	3022.5	4583.9	68705.4
	-11180.0	1215.5	30.6	3282.6	4600.2	68701.3

	-12622.1	-327.9	1171.0	-853.3	-87625.9	-29496.1
	-12621.8	-331.4	1168.6	-795.7	-87751.6	-29488.6
	-12620.5	-348.2	1160.8	-535.6	-88171.5	-29457.8
	-12632.2	-196.0	1231.7	-2882.7	-84359.9	-29735.1
	-12630.9	-212.8	1223.9	-2622.5	-84779.8	-29704.3
	-12630.6	-216.3	1221.4	-2564.9	-84905.5	-29696.8
	-12629.3	-233.1	1213.6	-2304.8	-85325.3	-29666.1
	-12604.7	-560.9	1065.4	2701.0	-93311.7	-29080.8
	-12603.4	-577.7	1057.6	2961.2	-93731.5	-29050.0
	-12603.1	-581.2	1055.2	3018.7	-93857.2	-29042.5
	-12601.8	-598.0	1047.4	3278.9	-94277.0	-29011.8
	-12613.5	-445.8	1118.3	931.8	-90465.5	-29289.0
	-12612.2	-462.6	1110.5	1191.9	-90885.4	-29258.2
	-12611.9	-466.1	1108.1	1249.5	-91011.0	-29250.7
	-12610.6	-482.9	1100.3	1509.6	-91430.9	-29220.0
330.	-12128.4	-311.1	1178.8	-1113.4	-281707.1	-80850.6
	-12127.1	-327.9	1171.0	-853.3	-280839.6	-83598.1
	-12126.8	-331.4	1168.6	-795.7	-280565.4	-84166.9
	-12125.5	-348.2	1160.8	-535.6	-279697.9	-86914.3
	-12137.2	-196.0	1231.7	-2882.7	-287586.0	-62069.3
	-12135.9	-212.8	1223.9	-2622.5	-286718.5	-64816.7
	-12135.6	-216.3	1221.4	-2564.9	-286444.2	-65385.6
	-12134.3	-233.1	1213.6	-2304.8	-285576.8	-68133.0
	-12109.7	-560.9	1065.4	2701.0	-269108.2	-121621.3
	-12108.4	-577.7	1057.6	2961.2	-268240.7	-124368.7
	-12108.1	-581.2	1055.2	3018.7	-267966.4	-124937.6
	-12106.8	-598.0	1047.4	3278.9	-267099.0	-127685.0
	-12118.5	-445.8	1118.3	931.8	-274987.0	-102840.0
	-12117.2	-462.6	1110.5	1191.9	-274119.6	-105587.4
	-12116.9	-466.1	1108.1	1249.5	-273845.3	-106156.3
	-12115.6	-482.9	1100.3	1509.6	-272977.9	-108903.7
Asta	127	nod	77	109		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-11365.0	712.2	321.4	-1119.0	11828.9	-111242.6
	-11364.5	693.8	301.3	-856.8	7234.9	-108184.4
	-11364.3	689.8	296.4	-801.7	6112.0	-107531.1
	-11363.9	671.4	276.3	-539.5	1518.0	-104472.8
	-11368.2	837.9	457.6	-2900.2	43003.8	-132111.3
	-11367.7	819.4	437.6	-2637.9	38409.8	-129053.1
	-11367.5	815.5	432.6	-2582.9	37286.9	-128399.7
	-11367.0	797.1	412.6	-2320.6	32692.9	-125341.5
	-11358.3	439.8	28.2	2716.1	-55260.5	-66033.1
	-11357.9	421.4	8.2	2978.4	-59854.5	-62974.9
	-11357.7	417.5	3.2	3033.4	-60977.3	-62321.6
	-11357.2	399.1	-16.8	3295.7	-65571.3	-59263.4
	-11361.5	565.5	164.5	935.0	-24085.6	-86901.8
	-11361.0	547.1	144.4	1197.2	-28679.6	-83843.6
	-11360.8	543.2	139.5	1252.2	-29802.4	-83190.2
	-11360.3	524.8	119.4	1514.5	-34396.4	-80132.0
165.	-10870.0	712.2	321.4	-1119.0	-41201.9	6265.5
	-10869.5	693.8	301.3	-856.8	-42483.3	6285.1
	-10869.3	689.8	296.4	-801.7	-42795.6	6291.4
	-10868.9	671.4	276.3	-539.5	-44077.0	6311.0
	-10873.2	837.9	457.6	-2900.2	-32504.8	6135.5
	-10872.7	819.4	437.6	-2637.9	-33786.3	6155.0
	-10872.5	815.5	432.6	-2582.9	-34098.5	6161.4
	-10872.0	797.1	412.6	-2320.6	-35380.0	6180.9
	-10863.3	439.8	28.2	2716.1	-59919.1	6538.9
	-10862.9	421.4	8.2	2978.4	-61200.5	6558.5
	-10862.7	417.5	3.2	3033.4	-61512.8	6564.8
	-10862.2	399.1	-16.8	3295.7	-62794.2	6584.3
	-10866.5	565.5	164.5	935.0	-51222.0	6408.9
	-10866.0	547.1	144.4	1197.2	-52503.5	6428.4
	-10865.8	543.2	139.5	1252.2	-52815.7	6434.8
	-10865.3	524.8	119.4	1514.5	-54097.2	6454.3
330.	-10375.0	712.2	321.4	-1119.0	-94232.6	123774.1
	-10374.5	693.8	301.3	-856.8	-92201.5	120754.9
	-10374.3	689.8	296.4	-801.7	-91703.2	120114.2
	-10373.9	671.4	276.3	-539.5	-89672.0	117095.0
	-10378.2	837.9	457.6	-2900.2	-108013.4	144382.7
	-10377.7	819.4	437.6	-2637.9	-105982.3	141363.5
	-10377.5	815.5	432.6	-2582.9	-105484.0	140722.8
	-10377.0	797.1	412.6	-2320.6	-103452.8	137703.6
	-10368.3	439.8	28.2	2716.1	-64577.7	79110.7
	-10367.9	421.4	8.2	2978.4	-62546.6	76091.6
	-10367.7	417.5	3.2	3033.4	-62048.2	75450.8
	-10367.2	399.1	-16.8	3295.7	-60017.1	72431.7
	-10371.5	565.5	164.5	935.0	-78358.5	99719.3
	-10371.0	547.1	144.4	1197.2	-76327.4	96700.1
	-10370.8	543.2	139.5	1252.2	-75829.1	96059.4
	-10370.3	524.8	119.4	1514.5	-73797.9	93040.2
Asta	128	nod	78	110		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-8460.6	930.0	-187.3	-1033.8	-30427.4	-119912.3
	-8459.1	918.1	-213.9	-792.5	-35802.6	-117183.2
	-8458.8	915.6	-220.4	-742.3	-37126.6	-116616.0
	-8457.3	903.6	-247.0	-501.0	-42501.7	-113886.9
	-8471.2	1011.8	-6.8	-2677.0	6032.3	-138540.3
	-8469.7	999.8	-33.4	-2435.7	657.1	-135811.2

	-8469.4	997.3	-39.9	-2385.5	-666.9	-135244.0
	-8467.9	985.4	-66.5	-2144.2	-6042.0	-132514.9
	-8437.4	753.0	-575.6	2510.5	-108852.8	-79576.6
	-8435.9	741.0	-602.2	2751.9	-114227.9	-76847.5
	-8435.7	738.5	-608.7	2802.0	-115551.9	-76280.3
	-8434.1	726.5	-635.3	3043.4	-120927.0	-73551.2
	-8448.0	834.7	-395.0	867.3	-72393.1	-98204.6
	-8446.5	822.7	-421.7	1108.7	-77768.2	-95475.5
	-8446.3	820.3	-428.2	1158.8	-79092.2	-94908.3
	-8444.7	808.3	-454.8	1400.2	-84467.3	-92179.2
165.	-7965.6	930.0	-187.3	-1033.8	471.0	33544.9
	-7964.1	918.1	-213.9	-792.5	-513.3	34298.3
	-7963.8	915.6	-220.4	-742.3	-757.0	34457.3
	-7962.3	903.6	-247.0	-501.0	-1741.3	35210.6
	-7976.2	1011.8	-6.8	-2677.0	7146.3	28406.1
	-7974.7	999.8	-33.4	-2435.7	6162.0	29159.4
	-7974.4	997.3	-39.9	-2385.5	5918.3	29318.4
	-7972.9	985.4	-66.5	-2144.2	4934.0	30071.8
	-7942.4	753.0	-575.6	2510.5	-13885.3	44663.7
	-7940.9	741.0	-602.2	2751.9	-14869.6	45417.0
	-7940.7	738.5	-608.7	2802.0	-15113.3	45576.0
	-7939.1	726.5	-635.3	3043.4	-16097.6	46329.3
	-7953.0	834.7	-395.0	867.3	-7210.0	39524.8
	-7951.5	822.7	-421.7	1108.7	-8194.3	40278.2
	-7951.3	820.3	-428.2	1158.8	-8438.0	40437.1
330.	-7949.7	808.3	-454.8	1400.2	-9422.3	41190.5
	-7470.6	930.0	-187.3	-1033.8	31369.4	187002.2
	-7469.1	918.1	-213.9	-792.5	34776.0	185779.8
	-7468.8	915.6	-220.4	-742.3	35612.6	185530.5
	-7467.3	903.6	-247.0	-501.0	39019.1	184308.2
	-7481.2	1011.8	-6.8	-2677.0	8260.3	195352.4
	-7479.7	999.8	-33.4	-2435.7	11666.8	194130.1
	-7479.4	997.3	-39.9	-2385.5	12503.4	193880.8
	-7477.9	985.4	-66.5	-2144.2	15909.9	192658.4
	-7447.4	753.0	-575.6	2510.5	81082.2	168903.9
	-7445.9	741.0	-602.2	2751.9	84488.7	167681.5
	-7445.7	738.5	-608.7	2802.0	85325.3	167432.3
	-7444.1	726.5	-635.3	3043.4	88731.8	166209.9
	-7458.0	834.7	-395.0	867.3	57973.0	177254.2
	-7456.5	822.7	-421.7	1108.7	61379.6	176031.8
	-7456.3	820.3	-428.2	1158.8	62216.2	175782.5
	-7454.7	808.3	-454.8	1400.2	65622.7	174560.2
Asta	129	nodI	17	111		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-5998.4	207.4	-57.0	-1138.2	-15429.7	-42854.2
	-5966.0	178.2	-76.2	-871.4	-19822.6	-37561.1
	-5958.6	172.3	-81.4	-816.1	-20966.8	-36485.8
	-5926.2	143.1	-100.7	-549.3	-25359.7	-31192.7
	-6218.7	407.1	72.8	-2950.3	14295.8	-78986.0
	-6186.3	377.9	53.5	-2683.5	9902.8	-73693.0
	-6178.9	372.0	48.3	-2628.1	8758.7	-72617.7
	-6146.5	342.7	29.1	-2361.4	4365.7	-67324.6
	-5523.2	-225.0	-335.0	2764.5	-79218.2	35370.3
	-5490.8	-254.2	-354.2	3031.2	-83611.1	40663.4
	-5483.4	-260.1	-359.4	3086.6	-84755.3	41738.7
	-5451.0	-289.3	-378.7	3353.4	-89148.3	47031.8
	-5743.5	-25.3	-205.2	952.4	-49492.7	-761.6
	-5711.1	-54.6	-224.5	1219.2	-53885.7	4531.5
	-5703.7	-60.4	-229.7	1274.5	-55029.9	5606.8
	-5671.3	-89.7	-248.9	1541.3	-59422.8	10899.9
165.	-5503.4	207.4	-57.0	-1138.2	-6022.0	-8626.8
	-5471.0	178.2	-76.2	-871.4	-7245.1	-8158.2
	-5463.6	172.3	-81.4	-816.1	-7527.5	-8053.4
	-5431.2	143.1	-100.7	-549.3	-8750.6	-7584.9
	-5723.7	407.1	72.8	-2950.3	2291.5	-11814.0
	-5691.3	377.9	53.5	-2683.5	1068.4	-11345.4
	-5683.9	372.0	48.3	-2628.1	786.1	-11240.6
	-5651.5	342.7	29.1	-2361.4	-437.0	-10772.0
	-5028.2	-225.0	-335.0	2764.5	-23941.7	-1751.7
	-4995.8	-254.2	-354.2	3031.2	-25164.8	-1283.1
	-4988.4	-260.1	-359.4	3086.6	-25447.2	-1178.3
	-4956.0	-289.3	-378.7	3353.4	-26670.3	-709.7
	-5248.5	-25.3	-205.2	952.4	-15628.2	-4938.8
	-5216.1	-54.6	-224.5	1219.2	-16851.3	-4470.3
	-5208.7	-60.4	-229.7	1274.5	-17133.6	-4365.5
	-5176.3	-89.7	-248.9	1541.3	-18356.8	-3896.9
330.	-5008.4	207.4	-57.0	-1138.2	3384.0	25600.8
	-4976.0	178.2	-76.2	-871.4	5330.8	21244.8
	-4968.6	172.3	-81.4	-816.1	5911.4	20379.0
	-4936.2	143.1	-100.7	-549.3	7858.1	16023.0
	-5228.7	407.1	72.8	-2950.3	-9714.3	55358.3
	-5196.3	377.9	53.5	-2683.5	-7767.6	51002.3
	-5188.9	372.0	48.3	-2628.1	-7187.0	50136.6
	-5156.5	342.7	29.1	-2361.4	-5240.2	45780.6
	-4533.2	-225.0	-335.0	2764.5	31335.2	-38873.7
	-4500.8	-254.2	-354.2	3031.2	33281.9	-43229.7
	-4493.4	-260.1	-359.4	3086.6	33862.5	-44095.4
	-4461.0	-289.3	-378.7	3353.4	35809.2	-48451.5
	-4753.5	-25.3	-205.2	952.4	18236.8	-9116.1
	-4721.1	-54.6	-224.5	1219.2	20183.5	-13472.1

	-4713.7	-60.4	-229.7	1274.5	20764.2	-14337.9
	-4681.3	-89.7	-248.9	1541.3	22710.9	-18693.9
Asta	130	nod	38	112		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-16188.5	301.9	859.9	-1125.7	86477.0	-51684.4
	-16207.0	287.3	796.9	-861.2	75771.9	-49225.6
	-16210.9	284.7	782.9	-807.2	73387.6	-48799.3
	-16229.4	270.1	719.8	-542.8	62682.5	-46340.6
	-16062.4	401.8	1289.4	-2919.6	159377.4	-68522.1
	-16080.9	387.2	1226.4	-2655.1	148672.3	-66063.4
	-16084.8	384.6	1212.3	-2601.1	146288.0	-65637.0
	-16103.3	370.0	1149.3	-2336.6	135582.9	-63178.3
	-16461.1	85.1	-67.6	2735.9	-70947.0	-15102.8
	-16479.6	70.5	-130.6	3000.3	-81652.1	-12644.1
	-16483.5	67.9	-144.6	3054.3	-84036.4	-12217.8
	-16502.0	53.3	-207.7	3318.8	-94741.5	-9759.1
	-16335.0	184.9	361.9	942.0	1953.4	-31940.5
	-16353.5	170.3	298.9	1206.4	-8751.7	-29481.8
	-16357.4	167.7	284.8	1260.4	-11135.9	-29055.5
	-16375.9	153.1	221.8	1524.9	-21841.0	-26596.8
165.	-15693.5	301.9	859.9	-1125.7	-55413.1	-1868.9
	-15712.0	287.3	796.9	-861.2	-55712.7	-1818.0
	-15715.9	284.7	782.9	-807.2	-55784.2	-1819.7
	-15734.4	270.1	719.8	-542.8	-56083.9	-1768.8
	-15567.4	401.8	1289.4	-2919.6	-53377.6	-2227.0
	-15585.9	387.2	1226.4	-2655.1	-53677.2	-2176.1
	-15589.8	384.6	1212.3	-2601.1	-53748.7	-2177.8
	-15608.3	370.0	1149.3	-2336.6	-54048.4	-2126.9
	-15966.1	85.1	-67.6	2735.9	-59798.5	-1069.1
	-15984.6	70.5	-130.6	3000.3	-60098.2	-1018.1
	-15988.5	67.9	-144.6	3054.3	-60169.7	-1019.8
	-16007.0	53.3	-207.7	3318.8	-60469.3	-968.9
	-15840.0	184.9	361.9	942.0	-57763.0	-1427.2
	-15858.5	170.3	298.9	1206.4	-58062.7	-1376.2
	-15862.4	167.7	284.8	1260.4	-58134.2	-1377.9
	-15880.9	153.1	221.8	1524.9	-58433.8	-1327.0
330.	-15198.5	301.9	859.9	-1125.7	-197303.2	47948.3
	-15217.0	287.3	796.9	-861.2	-187197.4	45591.4
	-15220.9	284.7	782.9	-807.2	-184956.1	45159.5
	-15239.4	270.1	719.8	-542.8	-174850.3	42802.7
	-15072.4	401.8	1289.4	-2919.6	-266132.7	64069.8
	-15090.9	387.2	1226.4	-2655.1	-256026.8	61712.9
	-15094.8	384.6	1212.3	-2601.1	-253785.5	61281.0
	-15113.3	370.0	1149.3	-2336.6	-243679.7	58924.2
	-15471.1	85.1	-67.6	2735.9	-48650.1	12965.1
	-15489.6	70.5	-130.6	3000.3	-38544.3	10608.3
	-15493.5	67.9	-144.6	3054.3	-36302.9	10176.3
	-15512.0	53.3	-207.7	3318.8	-26197.1	7819.5
	-15345.0	184.9	361.9	942.0	-117479.5	29086.6
	-15363.5	170.3	298.9	1206.4	-107373.7	26729.8
	-15367.4	167.7	284.8	1260.4	-105132.4	26297.8
	-15385.9	153.1	221.8	1524.9	-95026.6	23941.0
Asta	131	nod	51	174		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-12567.0	-176.4	-1352.2	-1092.3	-116700.2	11098.8
	-12561.0	-204.4	-1358.2	-836.2	-118131.2	16392.5
	-12559.9	-210.2	-1360.1	-781.8	-118598.3	17480.7
	-12554.0	-238.2	-1366.2	-525.7	-120029.3	22774.3
	-12607.3	14.5	-1311.4	-2830.4	-107016.7	-25014.2
	-12601.4	-13.5	-1317.4	-2574.3	-108447.6	-19720.5
	-12600.3	-19.2	-1319.3	-2519.9	-108914.7	-18632.4
	-12594.4	-47.2	-1325.4	-2263.8	-110345.7	-13338.7
	-12479.6	-589.6	-1439.6	2650.7	-137452.3	89234.2
	-12473.7	-617.5	-1445.7	2906.8	-138883.3	94527.9
	-12472.6	-623.3	-1447.6	2961.2	-139350.4	95616.0
	-12466.7	-651.3	-1453.6	3217.3	-140781.4	100909.7
	-12519.9	-398.6	-1398.8	912.6	-127768.7	53121.2
	-12514.0	-426.6	-1404.9	1168.8	-129199.7	58414.8
	-12512.9	-432.4	-1406.8	1223.1	-129666.8	59503.0
	-12507.0	-460.3	-1412.8	1479.3	-131097.8	64796.7
165.	-12072.0	-176.4	-1352.2	-1092.3	106409.4	-18013.1
	-12066.0	-204.4	-1358.2	-836.2	105972.9	-17337.4
	-12064.9	-210.2	-1360.1	-781.8	105824.7	-17198.2
	-12059.0	-238.2	-1366.2	-525.7	105388.2	-16522.5
	-12112.3	14.5	-1311.4	-2830.4	109361.2	-22621.9
	-12106.4	-13.5	-1317.4	-2574.3	108924.7	-21946.3
	-12105.3	-19.2	-1319.3	-2519.9	108776.5	-21807.0
	-12099.4	-47.2	-1325.4	-2263.8	108340.0	-21131.4
	-11984.6	-589.6	-1439.6	2650.7	100088.9	-8042.0
	-11978.7	-617.5	-1445.7	2906.8	99652.4	-7366.4
	-11977.6	-623.3	-1447.6	2961.2	99504.2	-7227.1
	-11971.7	-651.3	-1453.6	3217.3	99067.7	-6551.5
	-12024.9	-398.6	-1398.8	912.6	103040.7	-12650.9
	-12019.0	-426.6	-1404.9	1168.8	102604.2	-11975.2
	-12017.9	-432.4	-1406.8	1223.1	102456.0	-11836.0
	-12012.0	-460.3	-1412.8	1479.3	102019.5	-11160.4
330.	-11577.0	-176.4	-1352.2	-1092.3	329519.0	-47125.0
	-11571.0	-204.4	-1358.2	-836.2	330077.0	-51067.3
	-11569.9	-210.2	-1360.1	-781.8	330247.7	-51877.0

		-11564.0	-238.2	-1366.2	-525.7	330805.7	-55819.4
		-11617.3	14.5	-1311.4	-2830.4	325739.0	-20229.7
		-11611.4	-13.5	-1317.4	-2574.3	326297.0	-24172.0
		-11610.3	-19.2	-1319.3	-2519.9	326467.7	-24981.7
		-11604.4	-47.2	-1325.4	-2263.8	327025.7	-28924.0
		-11489.6	-589.6	-1439.6	2650.7	337630.2	-105318.3
		-11483.7	-617.5	-1445.7	2906.8	338188.2	-109260.7
		-11482.6	-623.3	-1447.6	2961.2	338358.9	-110070.3
		-11476.7	-651.3	-1453.6	3217.3	338916.9	-114012.7
		-11529.9	-398.6	-1398.8	912.6	333850.2	-78423.0
		-11524.0	-426.6	-1404.9	1168.8	334408.2	-82365.3
		-11522.9	-432.4	-1406.8	1223.1	334578.8	-83175.0
		-11517.0	-460.3	-1412.8	1479.3	335136.8	-87117.4
Asta	132	nodi	66	115			
PROGR.	NORM	TTY	TZZ	TORS	MY	MZZ	
0.		-8383.8	-55.9	-378.5	-1079.4	-47253.7	2789.6
		-8388.5	-83.9	-378.8	-826.6	-47346.9	8066.4
		-8389.9	-89.7	-379.7	-775.4	-47553.2	9154.1
		-8394.7	-117.6	-380.0	-522.5	-47646.4	14430.9
		-8351.2	134.9	-376.3	-2796.9	-46647.1	-33204.9
		-8356.0	106.9	-376.7	-2544.0	-46740.3	-27928.1
		-8357.3	101.1	-377.5	-2492.8	-46946.7	-26840.3
		-8362.1	73.2	-377.9	-2239.9	-47039.9	-21563.5
		-8453.9	-468.7	-382.7	2620.2	-48470.6	80660.6
		-8458.7	-496.7	-383.0	2873.0	-48563.8	85937.4
		-8460.0	-502.4	-383.9	2924.2	-48770.2	87025.2
		-8464.8	-530.4	-384.2	3177.1	-48863.4	92302.0
		-8421.4	-277.9	-380.6	902.7	-47864.1	44666.2
		-8426.2	-305.9	-380.9	1155.6	-47957.3	49942.9
		-8427.5	-311.6	-381.7	1206.8	-48163.6	51030.7
		-8432.3	-339.6	-382.1	1459.7	-48256.8	56307.5
165.		-7888.8	-55.9	-378.5	-1079.4	15194.2	-6437.9
		-7893.5	-83.9	-378.8	-826.6	15155.4	-5776.4
		-7894.9	-89.7	-379.7	-775.4	15090.9	-5639.9
		-7899.7	-117.6	-380.0	-522.5	15052.1	-4978.4
		-7856.2	134.9	-376.3	-2796.9	15449.9	-10950.6
		-7861.0	106.9	-376.7	-2544.0	15411.1	-10289.0
		-7862.3	101.1	-377.5	-2492.8	15346.6	-10152.6
		-7867.1	73.2	-377.9	-2239.9	15307.8	-9491.1
		-7958.9	-468.7	-382.7	2620.2	14670.8	3325.1
		-7963.7	-496.7	-383.0	2873.0	14632.0	3986.6
		-7965.0	-502.4	-383.9	2924.2	14567.5	4123.1
		-7969.8	-530.4	-384.2	3177.1	14528.7	4784.6
		-7926.4	-277.9	-380.6	902.7	14926.5	-1187.6
		-7931.2	-305.9	-380.9	1155.6	14887.7	-526.0
		-7932.5	-311.6	-381.7	1206.8	14823.2	-389.6
330.		-7937.3	-339.6	-382.1	1459.7	14784.4	271.9
		-7393.8	-55.9	-378.5	-1079.4	77638.3	-15665.4
		-7398.5	-83.9	-378.8	-826.6	77653.9	-19619.1
		-7399.9	-89.7	-379.7	-775.4	77732.1	-20434.0
		-7404.7	-117.6	-380.0	-522.5	77747.8	-24387.7
		-7361.2	134.9	-376.3	-2796.9	77543.2	11303.7
		-7366.0	106.9	-376.7	-2544.0	77558.9	7350.0
		-7367.3	101.1	-377.5	-2492.8	77637.1	6535.1
		-7372.1	73.2	-377.9	-2239.9	77652.7	2581.4
		-7463.9	-468.7	-382.7	2620.2	77815.0	-74010.4
		-7468.7	-496.7	-383.0	2873.0	77830.6	-77964.1
		-7470.0	-502.4	-383.9	2924.2	77908.8	-78779.0
		-7474.8	-530.4	-384.2	3177.1	77924.5	-82732.7
		-7431.4	-277.9	-380.6	902.7	77719.9	-47041.3
		-7436.2	-305.9	-380.9	1155.6	77735.6	-50995.0
		-7437.5	-311.6	-381.7	1206.8	77813.8	-51809.9
		-7442.3	-339.6	-382.1	1459.7	77829.4	-55763.6
Asta	133	nodi	42	116			
PROGR.	NORM	TTY	TZZ	TORS	MY	MZZ	
0.		-8724.6	716.3	-99.8	-1094.3	-28221.0	-75750.9
		-8719.9	681.9	-95.6	-836.9	-27076.8	-69797.4
		-8718.7	674.9	-95.4	-786.6	-27010.3	-68581.5
		-8714.0	640.5	-91.2	-529.3	-25866.1	-62628.0
		-8756.5	950.9	-128.6	-2839.7	-36007.0	-116351.3
		-8751.9	916.5	-124.4	-2582.4	-34862.8	-110397.8
		-8750.6	909.5	-124.2	-2532.1	-34796.3	-109181.9
		-8746.0	875.1	-120.0	-2274.7	-33652.1	-103228.4
		-8655.6	208.9	-37.4	2663.3	-11359.3	12077.0
		-8651.0	174.5	-33.2	2920.6	-10215.1	18030.6
		-8649.7	167.4	-33.0	2970.9	-10148.5	19246.4
		-8645.1	133.0	-28.7	3228.2	-9004.3	25200.0
		-8687.6	443.4	-66.2	917.8	-19145.3	-28523.4
		-8682.9	409.0	-62.0	1175.1	-18001.1	-22569.8
		-8681.6	402.0	-61.8	1225.5	-17934.5	-21354.0
165.		-8677.0	367.6	-57.5	1482.8	-16790.3	-15400.4
		-8229.6	716.3	-99.8	-1094.3	-11754.2	42441.6
		-8224.9	681.9	-95.6	-836.9	-11307.9	42719.2
		-8223.7	674.9	-95.4	-786.6	-11269.6	42777.6
		-8219.0	640.5	-91.2	-529.3	-10823.3	43055.3
		-8261.5	950.9	-128.6	-2839.7	-14788.5	40548.1
		-8256.9	916.5	-124.4	-2582.4	-14342.1	40825.7
		-8255.6	909.5	-124.2	-2532.1	-14303.9	40884.2
		-8251.0	875.1	-120.0	-2274.7	-13857.5	41161.8

		-8160.6	208.9	-37.4	2663.3	-5191.4	46538.0
		-8156.0	174.5	-33.2	2920.6	-4745.0	46815.6
		-8154.7	167.4	-33.0	2970.9	-4706.8	46874.0
		-8150.1	133.0	-28.7	3228.2	-4260.4	47151.6
		-8192.6	443.4	-66.2	917.8	-8225.6	44644.5
		-8187.9	409.0	-62.0	1175.1	-7779.3	44922.1
		-8186.6	402.0	-61.8	1225.5	-7741.0	44980.6
		-8182.0	367.6	-57.5	1482.8	-7294.7	45258.2
330.		-7734.6	716.3	-99.8	-1094.3	4713.5	160634.0
		-7729.9	681.9	-95.6	-836.9	4462.0	155235.7
		-7728.7	674.9	-95.4	-786.6	4470.3	154136.8
		-7724.0	640.5	-91.2	-529.3	4218.8	148738.5
		-7766.5	950.9	-128.6	-2839.7	6431.0	197447.5
		-7761.9	916.5	-124.4	-2582.4	6179.5	192049.2
		-7760.6	909.5	-124.2	-2532.1	6187.8	190950.3
		-7756.0	875.1	-120.0	-2274.7	5936.2	185552.0
		-7665.6	208.9	-37.4	2663.3	977.3	80998.9
		-7661.0	174.5	-33.2	2920.6	725.8	75600.6
		-7659.7	167.4	-33.0	2970.9	734.1	74501.6
		-7655.1	133.0	-28.7	3228.2	482.6	69103.3
		-7697.6	443.4	-66.2	917.8	2694.8	117812.4
		-7692.9	409.0	-62.0	1175.1	2443.3	112414.1
		-7691.6	402.0	-61.8	1225.5	2451.6	111315.1
		-7687.0	367.6	-57.5	1482.8	2200.1	105916.8
Asta	134	nodì	43	117			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-5292.3	-120.9	607.3	-1058.8	57760.6	10026.0	
	-5301.2	-142.4	587.3	-811.0	52974.5	14282.6	
	-5303.0	-146.2	582.5	-759.1	51840.9	15058.5	
	-5311.9	-167.6	562.5	-511.3	47054.8	19315.1	
	-5231.5	25.2	743.4	-2743.5	90394.5	-18992.1	
	-5240.4	3.7	723.4	-2495.7	85608.5	-14735.5	
	-5242.2	-0.1	718.6	-2443.7	84474.8	-13959.7	
	-5251.1	-21.6	698.7	-2195.9	79688.8	-9703.1	
	-5423.8	-436.8	313.1	2570.6	-12748.4	72772.6	
	-5432.7	-458.2	293.2	2818.4	-17534.4	77029.2	
	-5434.5	-462.1	288.4	2870.4	-18668.1	77805.1	
	-5443.4	-483.5	268.4	3118.2	-23454.1	82061.7	
	-5363.0	-290.7	449.3	886.0	19885.6	43754.5	
	-5371.9	-312.2	429.3	1133.8	15099.5	48011.1	
	-5373.7	-316.0	424.5	1185.7	13965.9	48787.0	
	-5382.6	-337.5	404.5	1433.5	9179.8	53043.6	
165.	-4797.3	-120.9	607.3	-1058.8	-42435.6	-9926.0	
	-4806.2	-142.4	587.3	-811.0	-43927.5	-9205.2	
	-4808.0	-146.2	582.5	-759.1	-44268.6	-9067.9	
	-4816.9	-167.6	562.5	-511.3	-45760.5	-8347.1	
	-4736.5	25.2	743.4	-2743.5	-32264.5	-14840.1	
	-4745.4	3.7	723.4	-2495.7	-33756.4	-14119.3	
	-4747.2	-0.1	718.6	-2443.7	-34097.5	-13982.0	
	-4756.1	-21.6	698.7	-2195.9	-35589.4	-13261.2	
	-4928.8	-436.8	313.1	2570.6	-64412.9	698.3	
	-4937.7	-458.2	293.2	2818.4	-65904.8	1419.1	
	-4939.5	-462.1	288.4	2870.4	-66245.9	1556.4	
	-4948.4	-483.5	268.4	3118.2	-67737.8	2277.2	
	-4868.0	-290.7	449.3	886.0	-54241.8	-4215.8	
	-4876.9	-312.2	429.3	1133.8	-55733.7	-3495.0	
	-4878.7	-316.0	424.5	1185.7	-56074.8	-3357.7	
	-4887.6	-337.5	404.5	1433.5	-57566.7	-2636.9	
330.	-4302.3	-120.9	607.3	-1058.8	-142631.9	-29878.0	
	-4311.2	-142.4	587.3	-811.0	-140829.7	-32692.9	
	-4313.0	-146.2	582.5	-759.1	-140378.1	-33194.3	
	-4321.9	-167.6	562.5	-511.3	-138575.8	-36009.2	
	-4241.5	25.2	743.4	-2743.5	-154923.7	-10688.1	
	-4250.4	3.7	723.4	-2495.7	-153121.4	-13503.0	
	-4252.2	-0.1	718.6	-2443.7	-152669.8	-14004.4	
	-4261.1	-21.6	698.7	-2195.9	-150867.6	-16819.3	
	-4433.8	-436.8	313.1	2570.6	-116077.5	-71376.0	
	-4442.7	-458.2	293.2	2818.4	-114275.2	-74191.0	
	-4444.5	-462.1	288.4	2870.4	-113823.7	-74692.3	
	-4453.4	-483.5	268.4	3118.2	-112021.4	-77507.3	
	-4373.0	-290.7	449.3	886.0	-128369.3	-52186.1	
	-4381.9	-312.2	429.3	1133.8	-126567.0	-55001.0	
	-4383.7	-316.0	424.5	1185.7	-126115.4	-55502.4	
	-4392.6	-337.5	404.5	1433.5	-124313.1	-58317.3	
Asta	135	nodì	40	118			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-16394.2	308.6	-282.7	-1118.3	-7692.6	-50733.2	
	-16396.6	281.6	-338.8	-856.1	-17458.9	-46007.7	
	-16396.9	276.6	-351.6	-802.4	-19677.3	-45136.2	
	-16399.4	249.6	-407.7	-540.2	-29443.7	-40410.7	
	-16377.2	492.8	99.6	-2899.4	58825.3	-82953.3	
	-16379.7	465.7	43.5	-2637.2	49059.0	-78227.7	
	-16379.9	460.8	30.7	-2583.5	46840.5	-77356.3	
	-16382.4	433.8	-25.4	-2321.3	37074.2	-72630.8	
	-16430.8	-89.7	-1108.1	2717.4	-151300.5	18934.5	
	-16433.3	-116.7	-1164.2	2979.6	-161066.8	23660.1	
	-16433.5	-121.7	-1177.0	3033.3	-163285.2	24531.5	
	-16436.0	-148.7	-1233.1	3295.5	-173051.6	29257.0	
	-16413.8	94.5	-725.7	936.3	-84782.6	-13285.6	

	-16416.3	67.5	-781.9	1198.5	-94548.9	-8560.0
	-16416.6	62.5	-794.7	1252.2	-96767.3	-7688.6
	-16419.0	35.5	-850.8	1514.4	-106533.7	-2963.1
165.	-15899.2	308.6	-282.7	-1118.3	38949.4	182.3
	-15901.6	281.6	-338.8	-856.1	38445.3	450.8
	-15901.9	276.6	-351.6	-802.4	38336.6	504.0
	-15904.4	249.6	-407.7	-540.2	37832.5	772.4
	-15882.2	492.8	99.6	-2899.4	42384.4	-1647.5
	-15884.7	465.7	43.5	-2637.2	41880.3	-1379.1
	-15884.9	460.8	30.7	-2583.5	41771.6	-1325.9
	-15887.4	433.8	-25.4	-2321.3	41267.5	-1057.4
	-15935.8	-89.7	-1108.1	2717.4	31529.8	4137.1
	-15938.3	-116.7	-1164.2	2979.6	31025.7	4405.5
	-15938.5	-121.7	-1177.0	3033.3	30917.0	4458.7
	-15941.0	-148.7	-1233.1	3295.5	30412.9	4727.2
	-15918.8	94.5	-725.7	936.3	34964.8	2307.2
	-15921.3	67.5	-781.9	1198.5	34460.7	2575.7
	-15921.6	62.5	-794.7	1252.2	34352.0	2628.9
330.	-15924.0	35.5	-850.8	1514.4	33847.9	2897.3
	-15404.2	308.6	-282.7	-1118.3	85591.4	51097.9
	-15406.6	281.6	-338.8	-856.1	94349.6	46909.2
	-15406.9	276.6	-351.6	-802.4	96350.6	46144.2
	-15409.4	249.6	-407.7	-540.2	105108.8	41955.5
	-15387.2	492.8	99.6	-2899.4	25943.5	79658.3
	-15389.7	465.7	43.5	-2637.2	34701.7	75469.6
	-15389.9	460.8	30.7	-2583.5	36702.7	74704.6
	-15392.4	433.8	-25.4	-2321.3	45460.9	70515.9
	-15440.8	-89.7	-1108.1	2717.4	214360.0	-10660.3
	-15443.3	-116.7	-1164.2	2979.6	223118.1	-14849.0
	-15443.5	-121.7	-1177.0	3033.3	225119.2	-15614.0
	-15446.0	-148.7	-1233.1	3295.5	233877.3	-19802.7
	-15423.8	94.5	-725.7	936.3	154712.1	17900.0
	-15426.3	67.5	-781.9	1198.5	163470.3	13711.4
	-15426.6	62.5	-794.7	1252.2	165471.3	12946.4
	-15429.0	35.5	-850.8	1514.4	174229.5	8757.7
Asta	136	nod	41	119		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-990.0	78.5	40.6	0.0	13391.8	-25917.2
	-990.0	73.4	24.2	0.0	7992.7	-24220.9
	-990.0	72.5	20.5	0.0	6773.8	-23917.5
	-990.0	67.3	4.2	0.0	1374.7	-22221.2
	-990.0	113.7	152.0	0.0	50163.6	-37506.0
	-990.0	108.5	135.7	0.0	44764.5	-35809.6
	-990.0	107.6	132.0	0.0	43545.7	-35506.3
	-990.0	102.5	115.6	0.0	38146.5	-33810.0
	-990.0	2.4	-200.0	0.0	-66008.1	-801.3
	-990.0	-2.7	-216.4	0.0	-71407.2	895.0
	-990.0	-3.6	-220.1	0.0	-72626.1	1198.4
	-990.0	-8.8	-236.4	0.0	-78025.2	2894.7
	-990.0	37.5	-88.6	0.0	-29236.3	-12390.1
	-990.0	32.4	-105.0	0.0	-34635.4	-10693.7
	-990.0	31.5	-108.6	0.0	-35854.3	-10390.4
	-990.0	26.3	-125.0	0.0	-41253.4	-8694.1
165.	-495.0	78.5	40.6	0.0	6695.9	-12958.6
	-495.0	73.4	24.2	0.0	3996.4	-12110.4
	-495.0	72.5	20.5	0.0	3386.9	-11958.8
	-495.0	67.3	4.2	0.0	687.4	-11110.6
	-495.0	113.7	152.0	0.0	25081.8	-18753.0
	-495.0	108.5	135.7	0.0	22382.3	-17904.8
	-495.0	107.6	132.0	0.0	21772.8	-17753.1
	-495.0	102.5	115.6	0.0	19073.3	-16905.0
	-495.0	2.4	-200.0	0.0	-33004.0	-400.6
	-495.0	-2.7	-216.4	0.0	-35703.6	447.5
	-495.0	-3.6	-220.1	0.0	-36313.0	599.2
	-495.0	-8.8	-236.4	0.0	-39012.6	1447.4
	-495.0	37.5	-88.6	0.0	-14618.1	-6195.0
	-495.0	32.4	-105.0	0.0	-17317.7	-5346.9
	-495.0	31.5	-108.6	0.0	-17927.1	-5195.2
	-495.0	26.3	-125.0	0.0	-20626.7	-4347.0
330.	0.0	78.5	40.6	0.0	0.0	0.0
	0.0	73.4	24.2	0.0	0.0	0.0
	0.0	72.5	20.5	0.0	0.0	0.0
	0.0	67.3	4.2	0.0	0.0	0.0
	0.0	113.7	152.0	0.0	0.0	0.0
	0.0	108.5	135.7	0.0	0.0	0.0
	0.0	107.6	132.0	0.0	0.0	0.0
	0.0	102.5	115.6	0.0	0.0	0.0
	0.0	2.4	-200.0	0.0	0.0	0.0
	0.0	-2.7	-216.4	0.0	0.0	0.0
	0.0	-3.6	-220.1	0.0	0.0	0.0
	0.0	-8.8	-236.4	0.0	0.0	0.0
	0.0	37.5	-88.6	0.0	0.0	0.0
	0.0	32.4	-105.0	0.0	0.0	0.0
	0.0	31.5	-108.6	0.0	0.0	0.0
	0.0	26.3	-125.0	0.0	0.0	0.0
Asta	137	nod	4	120		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-8809.9	350.0	60.6	-1139.8	3338.6	-57774.5
	-8861.0	308.9	17.2	-872.5	-5239.9	-50725.5

	-8871.5	301.2	7.6	-817.2	-7151.5	-49407.4
	-8922.7	260.1	-35.7	-549.9	-15730.0	-42358.4
	-8461.4	630.5	355.5	-2955.2	61753.8	-105814.7
	-8512.5	589.4	312.2	-2687.9	53175.3	-98765.7
	-8523.0	581.7	302.5	-2632.6	51263.7	-97447.5
	-8574.2	540.5	259.2	-2365.4	42685.2	-90398.5
	-9562.8	-256.1	-576.0	2770.0	-122743.6	46041.2
	-9613.9	-297.2	-619.3	3037.3	-131322.1	53090.2
	-9624.4	-304.9	-629.0	3092.6	-133233.6	54408.4
	-9675.6	-346.1	-672.3	3359.8	-141812.1	61457.4
	-9214.3	24.4	-281.1	954.6	-64328.4	-1999.0
	-9265.4	-16.8	-324.4	1221.9	-72906.9	5050.1
	-9275.9	-24.4	-334.1	1277.2	-74818.4	6368.2
	-9327.1	-65.6	-377.4	1544.4	-83396.9	13417.2
165.	-8314.9	350.0	60.6	-1139.8	-6653.1	-18.6
	-8366.0	308.9	17.2	-872.5	-8085.6	240.1
	-8376.5	301.2	7.6	-817.2	-8399.4	294.4
	-8427.7	260.1	-35.7	-549.9	-9832.0	553.1
	-7966.4	630.5	355.5	-2955.2	3101.2	-1781.0
	-8017.5	589.4	312.2	-2687.9	1668.6	-1522.3
	-8028.0	581.7	302.5	-2632.6	1354.8	-1468.0
	-8079.2	540.5	259.2	-2365.4	-77.8	-1209.3
	-9067.8	-256.1	-576.0	2770.0	-27705.6	3787.4
	-9118.9	-297.2	-619.3	3037.3	-29138.2	4046.1
	-9129.4	-304.9	-629.0	3092.6	-29452.0	4100.5
	-9180.6	-346.1	-672.3	3359.8	-30884.6	4359.2
	-8719.3	24.4	-281.1	954.6	-17951.4	2025.0
	-8770.4	-16.8	-324.4	1221.9	-19384.0	2283.7
	-8780.9	-24.4	-334.1	1277.2	-19697.7	2338.1
	-8832.1	-65.6	-377.4	1544.4	-21130.3	2596.8
330.	-7819.9	350.0	60.6	-1139.8	-16644.7	57737.3
	-7871.0	308.9	17.2	-872.5	-10931.4	51205.7
	-7881.5	301.2	7.6	-817.2	-9647.3	49996.1
	-7932.7	260.1	-35.7	-549.9	-3934.0	43464.6
	-7471.4	630.5	355.5	-2955.2	-55551.4	102252.7
	-7522.5	589.4	312.2	-2687.9	-49838.1	95721.1
	-7533.0	581.7	302.5	-2632.6	-48554.1	94511.5
	-7584.2	540.5	259.2	-2365.4	-42840.8	87979.9
	-8572.8	-256.1	-576.0	2770.0	67332.3	-38466.4
	-8623.9	-297.2	-619.3	3037.3	73045.7	-44998.0
	-8634.4	-304.9	-629.0	3092.6	74329.7	-46207.5
	-8685.6	-346.1	-672.3	3359.8	80043.0	-52739.1
	-8224.3	24.4	-281.1	954.6	28425.6	6049.0
	-8275.4	-16.8	-324.4	1221.9	34138.9	-482.6
	-8285.9	-24.4	-334.1	1277.2	35422.9	-1692.1
	-8337.1	-65.6	-377.4	1544.4	41136.3	-8223.7
Asta	138	nod	45	121		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3244.2	243.9	-304.7	-1004.6	-28817.1	-35496.7
	-3258.3	214.5	-339.0	-768.9	-36565.9	-29064.1
	-3261.7	208.8	-346.6	-720.1	-38273.8	-27822.3
	-3275.9	179.3	-380.9	-484.4	-46022.6	-21389.7
	-3147.9	444.5	-70.8	-2604.6	23949.9	-79307.9
	-3162.0	415.1	-105.2	-2368.9	16201.1	-72875.3
	-3165.4	409.4	-112.7	-2320.0	14493.2	-71633.6
	-3179.6	379.9	-147.1	-2084.3	6744.4	-65201.0
	-3452.0	-189.3	-809.3	2440.2	-142711.1	59121.5
	-3466.1	-218.8	-843.7	2676.0	-150459.9	65554.1
	-3469.5	-224.4	-851.2	2724.8	-152167.8	66795.8
	-3483.7	-253.9	-885.6	2960.5	-159916.6	73228.5
	-3355.7	11.3	-575.5	840.3	-89944.1	15310.2
	-3369.8	-18.2	-609.9	1076.0	-97692.8	21742.9
	-3373.2	-23.8	-617.4	1124.8	-99400.8	22984.6
	-3387.4	-53.3	-651.8	1360.6	-107149.6	29417.2
165.	-2749.2	243.9	-304.7	-1004.6	21451.3	4751.6
	-2763.3	214.5	-339.0	-768.9	19368.2	6324.3
	-2766.7	208.8	-346.6	-720.1	18907.6	6629.2
	-2780.9	179.3	-380.9	-484.4	16824.5	8202.0
	-2652.9	444.5	-70.8	-2604.6	35637.4	-5960.6
	-2667.0	415.1	-105.2	-2368.9	33554.3	-4387.9
	-2670.4	409.4	-112.7	-2320.0	33093.7	-4082.9
	-2684.6	379.9	-147.1	-2084.3	31010.6	-2510.2
	-2957.0	-189.3	-809.3	2440.2	-9169.4	27886.5
	-2971.1	-218.8	-843.7	2676.0	-11252.5	29459.2
	-2974.5	-224.4	-851.2	2724.8	-11713.1	29764.2
	-2988.7	-253.9	-885.6	2960.5	-13796.2	31336.9
	-2860.7	11.3	-575.5	840.3	5016.7	17174.3
	-2874.8	-18.2	-609.9	1076.0	2933.6	18747.1
	-2878.2	-23.8	-617.4	1124.8	2473.0	19052.0
	-2892.4	-53.3	-651.8	1360.6	389.9	20624.7
330.	-2254.2	243.9	-304.7	-1004.6	71719.7	44999.8
	-2268.3	214.5	-339.0	-768.9	75302.4	41712.6
	-2271.7	208.8	-346.6	-720.1	76089.1	41080.8
	-2285.9	179.3	-380.9	-484.4	79671.7	37793.6
	-2157.9	444.5	-70.8	-2604.6	47324.8	67386.8
	-2172.0	415.1	-105.2	-2368.9	50907.5	64099.6
	-2175.4	409.4	-112.7	-2320.0	51694.2	63467.8
	-2189.6	379.9	-147.1	-2084.3	55276.8	60180.6
	-2462.0	-189.3	-809.3	2440.2	124372.3	-3348.5
	-2476.1	-218.8	-843.7	2676.0	127954.9	-6635.7

	-2479.5	-224.4	-851.2	2724.8	128741.6	-7267.5
	-2493.7	-253.9	-885.6	2960.5	132324.3	-10554.7
	-2365.7	11.3	-575.5	840.3	99977.4	19038.5
	-2379.8	-18.2	-609.9	1076.0	103560.0	15751.3
	-2383.2	-23.8	-617.4	1124.8	104346.7	15119.5
	-2397.4	-53.3	-651.8	1360.6	107929.4	11832.3
Asta	139	nod	18	122		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3287.3	181.2	-226.9	-1141.5	-35759.2	-31936.6
	-3358.0	150.8	-226.9	-873.5	-35722.7	-26163.9
	-3372.9	144.1	-228.6	-819.8	-36007.1	-24896.5
	-3443.6	113.7	-228.7	-551.8	-35970.6	-19123.8
	-2805.5	388.0	-227.9	-2967.3	-36279.4	-71183.0
	-2876.2	357.6	-228.0	-2699.2	-36242.9	-65410.3
	-2891.1	350.9	-229.7	-2645.6	-36527.3	-64142.9
	-2961.8	320.5	-229.8	-2377.5	-36490.8	-58370.2
	-4327.6	-264.5	-219.0	2784.3	-33845.8	52673.5
	-4398.4	-294.9	-219.1	3052.4	-33809.3	58446.2
	-4413.3	-301.6	-220.8	3106.0	-34093.7	59713.6
	-4484.0	-332.0	-220.9	3374.1	-34057.2	65486.3
	-3845.8	-57.7	-220.1	958.6	-34366.0	13427.1
	-3916.6	-88.2	-220.2	1226.6	-34329.5	19199.8
	-3931.5	-94.8	-221.9	1280.3	-34613.9	20467.2
	-4002.2	-125.3	-222.0	1548.3	-34577.4	26239.9
165.	-2792.3	181.2	-226.9	-1141.5	1602.6	-2033.6
	-2863.0	150.8	-226.9	-873.5	1652.2	-1279.7
	-2877.9	144.1	-228.6	-819.8	1659.8	-1114.8
	-2948.6	113.7	-228.7	-551.8	1709.5	-360.9
	-2310.5	388.0	-227.9	-2967.3	1260.4	-7162.4
	-2381.2	357.6	-228.0	-2699.2	1310.1	-6408.4
	-2396.1	350.9	-229.7	-2645.6	1317.6	-6243.6
	-2466.8	320.5	-229.8	-2377.5	1367.3	-5489.6
	-3832.6	-264.5	-219.0	2784.3	2349.9	9028.4
	-3903.4	-294.9	-219.1	3052.4	2399.6	9782.4
	-3918.3	-301.6	-220.8	3106.0	2407.1	9947.2
	-3989.0	-332.0	-220.9	3374.1	2456.8	10701.2
	-3350.8	-57.7	-220.1	958.6	2007.8	3899.6
	-3421.6	-88.2	-220.2	1226.6	2057.5	4653.6
	-3436.5	-94.8	-221.9	1280.3	2065.0	4818.4
330.	-3507.2	-125.3	-222.0	1548.3	2114.7	5572.4
	-2297.3	181.2	-226.9	-1141.5	39211.3	27869.3
	-2368.0	150.8	-226.9	-873.5	39274.2	23604.6
	-2382.9	144.1	-228.6	-819.8	39545.9	22666.8
	-2453.6	113.7	-228.7	-551.8	39608.8	18402.0
	-1815.5	388.0	-227.9	-2967.3	39047.2	56858.2
	-1886.2	357.6	-228.0	-2699.2	39110.0	52593.5
	-1901.1	350.9	-229.7	-2645.6	39381.8	51655.7
	-1971.8	320.5	-229.8	-2377.5	39444.7	47391.0
	-3337.6	-264.5	-219.0	2784.3	38326.4	-34616.7
	-3408.4	-294.9	-219.1	3052.4	38389.3	-38881.4
	-3423.3	-301.6	-220.8	3106.0	38661.0	-39819.2
	-3494.0	-332.0	-220.9	3374.1	38723.9	-44083.9
	-2855.8	-57.7	-220.1	958.6	38162.3	-5627.8
	-2926.6	-88.2	-220.2	1226.6	38225.1	-9892.5
	-2941.5	-94.8	-221.9	1280.3	38496.9	-10830.3
	-3012.2	-125.3	-222.0	1548.3	38559.8	-15095.0
Asta	140	nod	35	123		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3932.0	181.9	705.8	-1128.6	117823.4	-31505.7
	-3874.3	183.6	608.9	-864.2	101464.9	-31515.6
	-3862.4	184.6	587.6	-809.7	97884.9	-31656.9
	-3804.7	186.3	490.7	-545.3	81526.4	-31666.9
	-4325.0	171.1	1364.9	-2925.2	229032.7	-31574.3
	-4267.3	172.8	1268.0	-2660.8	212674.1	-31584.3
	-4255.4	173.9	1246.7	-2606.4	209094.1	-31725.6
	-4197.7	175.6	1149.8	-2342.0	192735.6	-31735.5
	-3083.0	203.5	-714.7	2743.5	-121887.8	-30879.9
	-3025.3	205.2	-811.7	3007.9	-138246.4	-30889.8
	-3013.4	206.3	-832.9	3062.4	-141826.3	-31031.1
	-2955.8	208.0	-929.9	3326.8	-158184.9	-31041.1
	-3476.0	192.8	-55.7	946.9	-10678.6	-30948.5
	-3418.3	194.5	-152.6	1211.3	-27037.1	-30958.5
	-3406.4	195.5	-173.9	1265.8	-30617.1	-31099.8
	-3348.7	197.2	-270.8	1530.2	-46975.6	-31109.7
165.	-3437.0	181.9	705.8	-1128.6	1358.6	-1399.7
	-3379.3	183.6	608.9	-864.2	997.6	-1129.3
	-3367.4	184.6	587.6	-809.7	923.5	-1074.9
	-3309.7	186.3	490.7	-545.3	562.5	-804.6
	-3830.0	171.1	1364.9	-2925.2	3818.9	-3243.0
	-3772.3	172.8	1268.0	-2660.8	3457.8	-2972.7
	-3760.4	173.9	1246.7	-2606.4	3383.8	-2918.2
	-3702.7	175.6	1149.8	-2342.0	3022.7	-2647.9
	-2588.0	203.5	-714.7	2743.5	-3956.6	2585.4
	-2530.3	205.2	-811.7	3007.9	-4317.6	2855.7
	-2518.4	206.3	-832.9	3062.4	-4391.7	2910.1
	-2460.8	208.0	-929.9	3326.8	-4752.7	3180.5
	-2981.0	192.8	-55.7	946.9	-1496.3	742.1
	-2923.3	194.5	-152.6	1211.3	-1857.3	1012.4
	-2911.4	195.5	-173.9	1265.8	-1931.4	1066.8

330.	-2853.7	197.2	-270.8	1530.2	-2292.5	1337.1
	-2942.0	181.9	705.8	-1128.6	-115106.2	28617.7
	-2884.3	183.6	608.9	-864.2	-99469.8	29168.2
	-2872.4	184.6	587.6	-809.7	-96037.9	29393.2
	-2814.7	186.3	490.7	-545.3	-80401.4	29943.8
	-3335.0	171.1	1364.9	-2925.2	-221395.0	24999.7
	-3277.3	172.8	1268.0	-2660.8	-205758.5	25550.2
	-3265.4	173.9	1246.7	-2606.4	-202326.6	25775.2
	-3207.7	175.6	1149.8	-2342.0	-186690.2	26325.8
	-2093.0	203.5	-714.7	2743.5	113974.7	36164.6
	-2035.3	205.2	-811.7	3007.9	129611.2	36715.2
	-2023.4	206.3	-832.9	3062.4	133043.0	36940.1
	-1965.8	208.0	-929.9	3326.8	148679.5	37490.7
	-2486.0	192.8	-55.7	946.9	7686.0	32546.6
	-2428.3	194.5	-152.6	1211.3	23322.5	33097.1
	-2416.4	195.5	-173.9	1265.8	26754.3	33322.1
	-2358.7	197.2	-270.8	1530.2	42390.8	33872.7
Asta	141	nod1	15	124		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2848.6	471.3	156.4	-1131.5	29252.5	-80293.6
	-2799.8	434.3	110.1	-866.2	20298.8	-73272.4
	-2790.2	426.7	99.4	-812.5	18230.6	-71824.1
	-2741.3	389.7	53.0	-547.2	9276.9	-64803.0
	-3181.9	723.2	470.9	-2934.8	89985.8	-128123.5
	-3133.1	686.3	424.5	-2669.6	81032.1	-121102.3
	-3123.5	678.7	413.8	-2615.8	78964.0	-119654.0
	-3074.6	641.7	367.5	-2350.6	70010.2	-112632.9
	-2127.8	-72.8	-520.0	2751.2	-101382.6	22993.4
	-2079.0	-109.8	-566.3	3016.4	-110336.3	30014.5
	-2069.4	-117.4	-577.0	3070.2	-112404.5	31462.8
	-2020.5	-154.4	-623.4	3335.5	-121358.2	38484.0
	-2461.1	179.1	-205.5	947.8	-40649.3	-24836.5
	-2412.3	142.1	-251.9	1213.1	-49603.0	-17815.3
	-2402.7	134.5	-262.6	1266.8	-51671.2	-16367.0
165.	-2353.8	97.5	-308.9	1532.1	-60624.9	-9345.9
	-2353.6	471.3	156.4	-1131.5	3441.2	-2530.8
	-2304.8	434.3	110.1	-866.2	2136.4	-1611.8
	-2295.2	426.7	99.4	-812.5	1833.1	-1419.4
	-2246.3	389.7	53.0	-547.2	528.4	-500.4
	-2686.9	723.2	470.9	-2934.8	12289.4	-8787.9
	-2638.1	686.3	424.5	-2669.6	10984.7	-7869.0
	-2628.5	678.7	413.8	-2615.8	10681.4	-7676.5
	-2579.6	641.7	367.5	-2350.6	9376.6	-6757.6
	-1632.8	-72.8	-520.0	2751.2	-15587.3	10975.0
	-1584.0	-109.8	-566.3	3016.4	-16892.0	11894.0
	-1574.4	-117.4	-577.0	3070.2	-17195.3	12086.4
	-1525.5	-154.4	-623.4	3335.5	-18500.1	13005.4
	-1966.1	179.1	-205.5	947.8	-6739.0	4717.9
	-1917.3	142.1	-251.9	1213.1	-8043.7	5636.9
	-1907.7	134.5	-262.6	1266.8	-8347.0	5829.3
	-1858.8	97.5	-308.9	1532.1	-9651.8	6748.3
330.	-1858.6	471.3	156.4	-1131.5	-22370.1	75232.0
	-1809.8	434.3	110.1	-866.2	-16026.0	70048.8
	-1800.2	426.7	99.4	-812.5	-14564.4	68985.3
	-1751.3	389.7	53.0	-547.2	-8220.2	63802.1
	-2191.9	723.2	470.9	-2934.8	-65406.9	110547.6
	-2143.1	686.3	424.5	-2669.6	-59062.7	105364.4
	-2133.5	678.7	413.8	-2615.8	-57601.2	104300.9
	-2084.6	641.7	367.5	-2350.6	-51257.0	99117.8
	-1137.8	-72.8	-520.0	2751.2	70208.1	-1043.4
	-1089.0	-109.8	-566.3	3016.4	76552.3	-6226.5
	-1079.4	-117.4	-577.0	3070.2	78013.9	-7290.0
	-1030.5	-154.4	-623.4	3335.5	84358.1	-12473.2
	-1471.1	179.1	-205.5	947.8	27171.3	34272.3
	-1422.3	142.1	-251.9	1213.1	33515.5	29089.1
	-1412.7	134.5	-262.6	1266.8	34977.1	28025.6
	-1363.8	97.5	-308.9	1532.1	41321.3	22842.4
Asta	142	nod1	16	125		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-6213.1	157.0	906.8	-1145.9	143531.4	-33590.0
	-6286.4	146.8	794.2	-877.3	124809.9	-31853.9
	-6301.3	145.1	769.8	-823.0	120742.3	-31579.5
	-6374.6	135.0	657.2	-554.4	102020.8	-29843.4
	-5714.0	226.7	1672.3	-2972.3	270841.6	-45512.7
	-5787.2	216.5	1559.8	-2703.7	252120.1	-43776.6
	-5802.2	214.8	1535.3	-2649.4	248052.5	-43502.2
	-5875.4	204.7	1422.7	-2380.8	229331.0	-41766.1
	-7291.5	5.5	-743.8	2785.7	-130961.4	-7656.4
	-7364.7	-4.7	-856.4	3054.3	-149682.9	-5920.3
	-7379.7	-6.4	-880.8	3108.6	-153750.5	-5645.9
	-7452.9	-16.5	-993.4	3377.3	-172472.0	-3909.8
	-6792.3	75.2	21.7	959.3	-3651.2	-19579.1
	-6865.6	65.0	-90.8	1227.9	-22372.7	-17843.0
	-6880.5	63.3	-115.3	1282.2	-26440.3	-17568.6
	-6953.8	53.2	-227.9	1550.8	-45161.8	-15832.5
165.	-5718.1	157.0	906.8	-1145.9	-6088.1	-7693.3
	-5791.4	146.8	794.2	-877.3	-6234.7	-7633.2
	-5806.3	145.1	769.8	-823.0	-6267.6	-7632.1
	-5879.6	135.0	657.2	-554.4	-6414.2	-7572.0

	-5219.0	226.7	1672.3	-2972.3	-5092.4	-8115.8
	-5292.2	216.5	1559.8	-2703.7	-5239.0	-8055.7
	-5307.2	214.8	1535.3	-2649.4	-5271.9	-8054.6
	-5380.4	204.7	1422.7	-2380.8	-5418.5	-7994.5
	-6796.5	5.5	-743.8	2785.7	-8232.5	-6754.9
	-6869.7	-4.7	-856.4	3054.3	-8379.1	-6694.7
	-6884.7	-6.4	-880.8	3108.6	-8412.0	-6693.6
	-6957.9	-16.5	-993.4	3377.3	-8558.6	-6633.5
	-6297.3	75.2	21.7	959.3	-7236.8	-7177.4
	-6370.6	65.0	-90.8	1227.9	-7383.4	-7117.2
	-6385.5	63.3	-115.3	1282.2	-7416.2	-7116.1
	-6458.8	53.2	-227.9	1550.8	-7562.8	-7056.0
330.	-5223.1	157.0	906.8	-1145.9	-155707.6	18204.3
	-5296.4	146.8	794.2	-877.3	-137279.4	16588.5
	-5311.3	145.1	769.8	-823.0	-133277.5	16315.2
	-5384.6	135.0	657.2	-554.4	-114849.2	14699.3
	-4724.0	226.7	1672.3	-2972.3	-281026.4	29282.0
	-4797.2	216.5	1559.8	-2703.7	-262598.1	27666.2
	-4812.2	214.8	1535.3	-2649.4	-258596.2	27392.9
	-4885.4	204.7	1422.7	-2380.8	-240168.0	25777.0
	-6301.5	5.5	-743.8	2785.7	114496.5	-5853.2
	-6374.7	-4.7	-856.4	3054.3	132924.7	-7469.1
	-6389.7	-6.4	-880.8	3108.6	136926.6	-7742.4
	-6462.9	-16.5	-993.4	3377.3	155354.9	-9358.2
	-5802.3	75.2	21.7	959.3	-10822.3	5224.5
	-5875.6	65.0	-90.8	1227.9	7605.9	3608.6
	-5890.5	63.3	-115.3	1282.2	11607.8	3335.3
	-5963.8	53.2	-227.9	1550.8	30036.1	1719.5
Asta	143	nod	10	126		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-5281.2	997.5	258.7	-1106.1	36395.9	-139085.9
	-5273.8	960.4	214.5	-846.6	27502.5	-131114.4
	-5272.5	952.7	204.3	-793.8	25450.4	-129472.2
	-5265.1	915.5	160.1	-534.4	16557.0	-121500.6
	-5332.0	1250.8	558.6	-2868.0	96719.7	-193374.3
	-5324.6	1213.6	514.4	-2608.6	87826.3	-185402.8
	-5323.4	1206.0	504.2	-2555.7	85774.2	-183760.5
	-5316.0	1168.8	460.0	-2296.3	76880.8	-175789.0
	-5170.7	450.8	-386.3	2687.6	-93364.2	-21886.9
	-5163.3	413.6	-430.5	2947.0	-102257.6	-13915.3
	-5162.1	405.9	-440.6	2999.8	-104309.7	-12273.1
	-5154.7	368.8	-484.8	3259.3	-113203.1	-4301.6
	-5221.6	704.0	-86.4	925.6	-33040.4	-76175.2
	-5214.2	666.8	-130.6	1185.1	-41933.8	-68203.7
	-5213.0	659.2	-140.8	1237.9	-43985.9	-66561.4
	-5205.5	622.0	-185.0	1497.3	-52879.3	-58589.9
165.	-4786.2	997.5	258.7	-1106.1	-6293.3	25509.0
	-4778.8	960.4	214.5	-846.6	-7893.5	27344.9
	-4775.5	952.7	204.3	-793.8	-8265.7	27725.8
	-4770.1	915.5	160.1	-534.4	-9865.9	29561.6
	-4837.0	1250.8	558.6	-2868.0	4558.5	13008.9
	-4829.6	1213.6	514.4	-2608.6	2958.2	14844.7
	-4828.4	1206.0	504.2	-2555.7	2586.1	15225.6
	-4821.0	1168.8	460.0	-2296.3	985.8	17061.4
	-4675.7	450.8	-386.3	2687.6	-29631.1	52489.9
	-4668.3	413.6	-430.5	2947.0	-31231.3	54325.7
	-4667.1	405.9	-440.6	2999.8	-31603.5	54706.6
	-4659.7	368.8	-484.8	3259.3	-33203.7	56542.5
	-4726.6	704.0	-86.4	925.6	-18779.3	39989.7
	-4719.2	666.8	-130.6	1185.1	-20379.5	41825.6
	-4718.0	659.2	-140.8	1237.9	-20751.7	42206.4
330.	-4710.5	622.0	-185.0	1497.3	-22351.9	44042.3
	-4291.2	997.5	258.7	-1106.1	-48982.5	190104.0
	-4283.8	960.4	214.5	-846.6	-43289.6	185804.2
	-4282.5	952.7	204.3	-793.8	-41981.8	184923.7
	-4275.1	915.5	160.1	-534.4	-36288.9	180623.9
	-4342.0	1250.8	558.6	-2868.0	-87602.8	219392.0
	-4334.6	1213.6	514.4	-2608.6	-81909.9	215092.2
	-4333.4	1206.0	504.2	-2555.7	-80602.1	214211.7
	-4326.0	1168.8	460.0	-2296.3	-74909.2	209911.9
	-4180.7	450.8	-386.3	2687.6	34102.1	126866.6
	-4173.3	413.6	-430.5	2947.0	39795.1	122566.8
	-4172.1	405.9	-440.6	2999.8	41102.8	121686.3
	-4164.7	368.8	-484.8	3259.3	46795.7	117386.5
	-4231.6	704.0	-86.4	925.6	-4518.2	156154.6
	-4224.2	666.8	-130.6	1185.1	1174.8	151854.8
	-4223.0	659.2	-140.8	1237.9	2482.5	150974.3
	-4215.5	622.0	-185.0	1497.3	8175.4	146674.5
Asta	144	nod	11	127		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-7365.9	-82.8	680.3	-1133.7	124903.4	-15619.4
	-7328.3	-105.5	550.6	-867.7	103352.2	-11558.8
	-7320.0	-109.8	522.7	-813.8	98708.5	-10798.1
	-7282.4	-132.4	392.9	-547.8	77157.4	-6737.5
	-7621.2	71.5	1562.8	-2939.6	271502.3	-43332.4
	-7583.6	48.9	1433.1	-2673.7	249951.2	-39271.8
	-7575.3	44.6	1405.1	-2619.7	245307.5	-38511.2
	-7537.7	22.0	1275.4	-2353.7	223756.4	-34450.5
	-6815.6	-416.6	-1222.9	2754.7	-191263.4	44320.5

	-6778.0	-439.2	-1352.6	3020.6	-212814.5	48381.1
	-6769.7	-443.5	-1380.5	3074.6	-217458.2	49141.7
	-6732.1	-466.1	-1510.3	3340.6	-239009.3	53202.3
	-7070.9	-262.2	-340.4	948.8	-44664.4	16607.5
	-7033.3	-284.9	-470.1	1214.7	-66215.5	20668.1
	-7025.0	-289.2	-498.1	1268.7	-70859.2	21428.7
	-6987.4	-311.8	-627.8	1534.6	-92410.4	25489.3
165.	-6870.9	-82.8	680.3	-1133.7	12648.7	-29286.9
	-6833.3	-105.5	550.6	-867.7	12502.8	-28959.4
	-6825.0	-109.8	522.7	-813.8	12471.1	-28907.6
	-6787.4	-132.4	392.9	-547.8	12325.1	-28580.0
	-7126.2	71.5	1562.8	-2939.6	13641.3	-31530.6
	-7088.6	48.9	1433.1	-2673.7	13495.4	-31203.1
	-7080.3	44.6	1405.1	-2619.7	13463.7	-31151.3
	-7042.7	22.0	1275.4	-2353.7	13317.7	-30823.8
	-6320.6	-416.6	-1222.9	2754.7	10508.8	-24417.5
	-6283.0	-439.2	-1352.6	3020.6	10362.8	-24090.0
	-6274.7	-443.5	-1380.5	3074.6	10331.1	-24038.2
	-6237.1	-466.1	-1510.3	3340.6	10185.1	-23710.7
	-6575.9	-262.2	-340.4	948.8	11501.4	-26661.2
	-6538.3	-284.9	-470.1	1214.7	11355.4	-26333.7
	-6530.0	-289.2	-498.1	1268.7	11323.7	-26281.9
330.	-6492.4	-311.8	-627.8	1534.6	11177.7	-25954.4
	-6375.9	-82.8	680.3	-1133.7	-99605.9	-42954.2
	-6338.3	-105.5	550.6	-867.7	-78346.7	-46359.7
	-6330.0	-109.8	522.7	-813.8	-73766.4	-47017.0
	-6292.4	-132.4	392.9	-547.8	-52507.2	-50422.6
	-6631.2	71.5	1562.8	-2939.6	-244219.7	-19728.6
	-6593.6	48.9	1433.1	-2673.7	-222960.5	-23134.2
	-6585.3	44.6	1405.1	-2619.7	-218380.2	-23791.5
	-6547.7	22.0	1275.4	-2353.7	-197121.0	-27197.1
	-5825.6	-416.6	-1222.9	2754.7	212281.0	-93155.4
	-5788.0	-439.2	-1352.6	3020.6	233540.2	-96561.0
	-5779.7	-443.5	-1380.5	3074.6	238120.5	-97218.3
	-5742.1	-466.1	-1510.3	3340.6	259379.6	-100623.8
	-6080.9	-262.2	-340.4	948.8	67667.2	-69929.9
	-6043.3	-284.9	-470.1	1214.7	88926.4	-73335.5
	-6035.0	-289.2	-498.1	1268.7	93506.7	-73992.7
	-5997.4	-311.8	-627.8	1534.6	114765.8	-77398.3
Asta	145	nod1	128	129		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-7964.8	269.5	-431.4	-1077.4	-103252.1	-16444.6
	-7962.8	252.2	-349.1	-824.6	-85865.9	-12558.3
	-7962.6	248.1	-332.2	-773.1	-82279.3	-11647.2
	-7960.6	230.8	-249.8	-520.2	-64893.1	-7760.9
	-7978.6	386.9	-991.8	-2794.1	-221605.6	-42816.3
	-7976.6	369.6	-909.5	-2541.2	-204219.5	-38929.9
	-7976.4	365.5	-892.5	-2489.7	-200632.8	-38018.9
	-7974.4	348.2	-810.2	-2236.9	-183246.6	-34132.6
	-7934.6	16.9	777.9	2618.6	152153.6	40309.7
	-7932.6	-0.5	860.2	2871.5	169539.8	44196.0
	-7932.5	-4.6	877.1	2923.0	173126.4	45107.0
	-7930.4	-21.9	959.5	3175.8	190512.6	48993.3
	-7948.4	134.3	217.5	902.0	33800.1	13938.0
	-7946.4	117.0	299.8	1154.8	51186.3	17824.3
	-7946.3	112.9	316.8	1206.3	54772.9	18735.3
	-7944.3	95.5	399.1	1459.1	72159.1	22621.6
165.	-7469.8	269.5	-431.4	-1077.4	-32067.8	28018.8
	-7467.8	252.2	-349.1	-824.6	-28263.4	29049.4
	-7467.6	248.1	-332.2	-773.1	-27473.3	29283.9
	-7465.6	230.8	-249.8	-520.2	-23668.8	30314.5
	-7483.6	386.9	-991.8	-2794.1	-57961.7	21020.1
	-7481.6	369.6	-909.5	-2541.2	-54157.3	22050.7
	-7481.4	365.5	-892.5	-2489.7	-53367.2	22285.2
	-7479.4	348.2	-810.2	-2236.9	-49562.7	23315.8
	-7439.6	16.9	777.9	2618.6	23803.0	43090.0
	-7437.6	-0.5	860.2	2871.5	27607.4	44120.6
	-7437.5	-4.6	877.1	2923.0	28397.5	44355.1
	-7435.4	-21.9	959.5	3175.8	32202.0	45385.8
	-7453.4	134.3	217.5	902.0	-2090.9	36091.3
	-7451.4	117.0	299.8	1154.8	1713.5	37121.9
	-7451.3	112.9	316.8	1206.3	2503.6	37356.4
	-7449.3	95.5	399.1	1459.1	6308.1	38387.1
330.	-6974.8	269.5	-431.4	-1077.4	39116.4	72482.2
	-6972.8	252.2	-349.1	-824.6	29339.2	70657.1
	-6972.6	248.1	-332.2	-773.1	27332.7	70215.0
	-6970.6	230.8	-249.8	-520.2	17555.5	68389.9
	-6988.6	386.9	-991.8	-2794.1	105682.2	84856.5
	-6986.6	369.6	-909.5	-2541.2	95904.9	83031.4
	-6986.4	365.5	-892.5	-2489.7	93898.5	82589.3
	-6984.4	348.2	-810.2	-2236.9	84121.2	80764.2
	-6944.6	16.9	777.9	2618.6	-104547.7	45870.4
	-6942.6	-0.5	860.2	2871.5	-114324.9	44045.3
	-6942.5	-4.6	877.1	2923.0	-116331.4	43603.2
	-6940.4	-21.9	959.5	3175.8	-126108.6	41778.1
	-6958.4	134.3	217.5	902.0	-37981.9	58244.7
	-6956.4	117.0	299.8	1154.8	-47759.2	56419.6
	-6956.3	112.9	316.8	1206.3	-49765.6	55977.5
	-6954.3	95.5	399.1	1459.1	-59542.9	54152.4

Asta	152	nod1	31	136		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3215.4	-5.9	-270.9	-1004.5	-16621.4	-17105.3
	-3256.9	-32.5	-316.3	-768.6	-27116.5	-11447.2
	-3265.7	-37.5	-326.2	-720.2	-29407.2	-10376.3
	-3307.3	-64.1	-371.6	-484.3	-39902.3	-4718.2
	-2932.6	175.3	38.2	-2604.9	54782.2	-55654.0
	-2974.2	148.7	-7.2	-2369.1	44287.2	-49995.9
	-2983.0	143.7	-17.2	-2320.6	41996.4	-48925.1
	-3024.5	117.1	-62.6	-2084.7	31501.4	-43266.9
	-3825.4	-397.3	-937.4	2441.4	-170623.2	66162.0
	-3866.9	-423.9	-982.8	2677.3	-181118.2	71820.1
	-3875.7	-428.9	-992.7	2725.8	-183409.0	72890.9
	-3917.3	-455.5	-1038.2	2961.6	-193904.0	78549.0
	-3542.6	-216.1	-628.3	841.0	-99219.6	27613.2
	-3584.2	-242.7	-673.8	1076.9	-109714.6	33271.3
	-3593.0	-247.7	-683.7	1125.3	-112005.4	34342.2
	-3634.5	-274.3	-729.1	1361.2	-122500.4	40000.3
165.	-2720.4	-5.9	-270.9	-1004.5	28070.8	-18073.3
	-2761.9	-32.5	-316.3	-768.6	25070.4	-16803.9
	-2770.7	-37.5	-326.2	-720.2	24416.9	-16565.6
	-2812.3	-64.1	-371.6	-484.3	21416.6	-15296.2
	-2437.6	175.3	38.2	-2604.9	48483.7	-26722.7
	-2479.2	148.7	-7.2	-2369.1	45483.3	-25453.2
	-2488.0	143.7	-17.2	-2320.6	44829.8	-25215.0
	-2529.5	117.1	-62.6	-2084.7	41829.4	-23945.6
	-3330.4	-397.3	-937.4	2441.4	-15954.9	611.7
	-3371.9	-423.9	-982.8	2677.3	-18955.3	1881.1
	-3380.7	-428.9	-992.7	2725.8	-19608.8	2119.4
	-3422.3	-455.5	-1038.2	2961.6	-22609.2	3388.8
	-3047.6	-216.1	-628.3	841.0	4457.9	-8037.7
	-3089.2	-242.7	-673.8	1076.9	1457.6	-6768.3
	-3098.0	-247.7	-683.7	1125.3	804.1	-6530.0
	-3139.5	-274.3	-729.1	1361.2	-2196.3	-5260.6
330.	-2225.4	-5.9	-270.9	-1004.5	72763.0	-19041.3
	-2266.9	-32.5	-316.3	-768.6	77257.3	-22160.5
	-2275.7	-37.5	-326.2	-720.2	78241.1	-22754.9
	-2317.3	-64.1	-371.6	-484.3	82735.4	-25874.1
	-1942.6	175.3	38.2	-2604.9	42185.2	2208.6
	-1984.2	148.7	-7.2	-2369.1	46679.5	-910.6
	-1993.0	143.7	-17.2	-2320.6	47663.2	-1505.0
	-2034.5	117.1	-62.6	-2084.7	52157.5	-4624.2
	-2835.4	-397.3	-937.4	2441.4	138713.3	-64938.6
	-2876.9	-423.9	-982.8	2677.3	143207.6	-68057.8
	-2885.7	-428.9	-992.7	2725.8	144191.4	-68652.2
	-2927.3	-455.5	-1038.2	2961.6	148685.7	-71771.4
	-2552.6	-216.1	-628.3	841.0	108135.5	-43688.7
	-2594.2	-242.7	-673.8	1076.9	112629.8	-46807.9
	-2603.0	-247.7	-683.7	1125.3	113613.5	-47402.3
	-2644.5	-274.3	-729.1	1361.2	118107.8	-50521.5

Asta	153	nod1	5	137		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-11180.7	-36.4	332.5	-1140.3	43246.3	-5179.7
	-11201.0	-88.3	260.4	-872.7	29675.5	3255.7
	-11206.1	-98.4	244.8	-817.6	26734.0	4875.4
	-11226.4	-150.3	172.6	-549.9	13163.2	13310.8
	-11042.9	317.8	823.3	-2957.1	135578.8	-62669.2
	-11063.2	265.9	751.2	-2689.5	122008.0	-54233.8
	-11068.3	255.9	735.6	-2634.4	119066.5	-52614.1
	-11088.6	203.9	663.5	-2366.7	105495.7	-44178.7
	-11477.2	-801.6	-726.2	2771.9	-155907.1	119025.0
	-11497.5	-853.6	-798.3	3039.6	-169477.8	127460.4
	-11502.6	-863.6	-813.9	3094.7	-172419.3	129080.1
	-11522.9	-915.6	-886.1	3362.3	-185990.1	137515.5
	-11339.4	-447.4	-235.4	955.1	-63574.6	61535.5
	-11359.7	-499.4	-307.5	1222.7	-77145.3	69970.9
	-11364.8	-509.4	-323.1	1277.8	-80086.8	71590.6
	-11385.1	-561.4	-395.2	1545.5	-93657.6	80025.9
165.	-10685.7	-36.4	332.5	-1140.3	-11617.8	-11180.1
	-10706.0	-88.3	260.4	-872.7	-13285.2	-11320.8
	-10711.1	-98.4	244.8	-817.6	-13651.0	-11353.8
	-10731.4	-150.3	172.6	-549.9	-15318.4	-11494.5
	-10547.9	317.8	823.3	-2957.1	-273.5	-10224.1
	-10568.2	265.9	751.2	-2689.5	-1940.9	-10364.8
	-10573.3	255.9	735.6	-2634.4	-2306.7	-10397.8
	-10593.6	203.9	663.5	-2366.7	-3974.1	-10538.5
	-10982.2	-801.6	-726.2	2771.9	-36085.2	-13239.5
	-11002.5	-853.6	-798.3	3039.6	-37752.6	-13380.2
	-11007.6	-863.6	-813.9	3094.7	-38118.4	-13413.2
	-11027.9	-915.6	-886.1	3362.3	-39785.8	-13553.9
	-10844.4	-447.4	-235.4	955.1	-24740.9	-12283.5
	-10864.7	-499.4	-307.5	1222.7	-26408.3	-12424.2
	-10869.8	-509.4	-323.1	1277.8	-26774.1	-12457.2
	-10890.1	-561.4	-395.2	1545.5	-28441.5	-12597.9
330.	-10190.7	-36.4	332.5	-1140.3	-66481.9	-17180.6
	-10211.0	-88.3	260.4	-872.7	-56245.9	-25897.4
	-10216.1	-98.4	244.8	-817.6	-54036.0	-27583.0
	-10236.4	-150.3	172.6	-549.9	-43800.1	-36299.8
	-10052.9	317.8	823.3	-2957.1	-136125.8	42220.8
	-10073.2	265.9	751.2	-2689.5	-125889.8	33504.1

	-10078.3	255.9	735.6	-2634.4	-123679.9	31818.5
	-10098.6	203.9	663.5	-2366.7	-113444.0	23101.7
	-10487.2	-801.6	-726.2	2771.9	83736.7	-145504.1
	-10507.5	-853.6	-798.3	3039.6	93972.6	-154220.9
	-10512.6	-863.6	-813.9	3094.7	96182.5	-155906.4
	-10532.9	-915.6	-886.1	3362.3	106418.5	-164623.2
	-10349.4	-447.4	-235.4	955.1	14092.8	-86102.6
	-10369.7	-499.4	-307.5	1222.7	24328.7	-94819.4
	-10374.8	-509.4	-323.1	1277.8	26538.7	-96505.0
	-10395.1	-561.4	-395.2	1545.5	36774.6	-105221.7
Asta	155	nod1	33	140		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-8453.5	45.8	803.4	-1133.6	113237.6	-22994.2
	-8504.1	12.1	678.1	-867.5	92177.5	-17358.0
	-8515.4	5.7	651.2	-813.2	87648.0	-16284.7
	-8566.0	-27.9	525.9	-547.1	66587.9	-10648.5
	-8109.6	275.1	1655.7	-2940.0	256505.6	-61429.0
	-8160.2	241.5	1530.4	-2673.8	235445.5	-55792.9
	-8171.5	235.0	1503.5	-2619.6	230916.0	-54719.5
	-8222.1	201.4	1378.2	-2353.5	209855.9	-49083.4
	-9194.6	-449.8	-1034.9	2755.9	-195758.8	60077.3
	-9245.2	-483.5	-1160.2	3022.0	-216818.9	65713.4
	-9256.6	-489.9	-1187.1	3076.3	-221348.4	66786.8
	-9307.2	-523.5	-1312.4	3342.4	-242408.5	72422.9
	-8850.7	-220.5	-182.6	949.6	-52490.8	21642.4
	-8901.3	-254.1	-307.9	1215.7	-73550.9	27278.6
	-8912.7	-260.6	-334.8	1269.9	-78080.4	28351.9
	-8963.3	-294.2	-460.1	1536.1	-99140.5	33988.1
165.	-7958.5	45.8	803.4	-1133.6	-19319.8	-15442.9
	-8009.1	12.1	678.1	-867.5	-19707.3	-15356.1
	-8020.4	5.7	651.2	-813.2	-19793.0	-15345.5
	-8071.0	-27.9	525.9	-547.1	-20180.5	-15258.7
	-7614.6	275.1	1655.7	-2940.0	-16684.4	-16039.4
	-7665.2	241.5	1530.4	-2673.8	-17072.0	-15952.6
	-7676.5	235.0	1503.5	-2619.6	-17157.6	-15942.1
	-7727.1	201.4	1378.2	-2353.5	-17545.2	-15855.3
	-8699.6	-449.8	-1034.9	2755.9	-25001.2	-14145.0
	-8750.2	-483.5	-1160.2	3022.0	-25388.8	-14058.1
	-8761.6	-489.9	-1187.1	3076.3	-25474.4	-14047.6
	-8812.2	-523.5	-1312.4	3342.4	-25862.0	-13960.8
	-8355.7	-220.5	-182.6	949.6	-22365.9	-14741.5
	-8406.3	-254.1	-307.9	1215.7	-22753.5	-14654.7
	-8417.7	-260.6	-334.8	1269.9	-22839.1	-14644.2
330.	-8468.3	-294.2	-460.1	1536.1	-23226.7	-14557.4
	-7463.5	45.8	803.4	-1133.6	-151877.2	-7891.4
	-7514.1	12.1	678.1	-867.5	-131592.2	-13353.9
	-7525.4	5.7	651.2	-813.2	-127234.0	-14406.5
	-7576.0	-27.9	525.9	-547.1	-106949.0	-19869.0
	-7119.6	275.1	1655.7	-2940.0	-289874.5	29350.4
	-7170.2	241.5	1530.4	-2673.8	-269589.5	23887.9
	-7181.5	235.0	1503.5	-2619.6	-265231.3	22835.2
	-7232.1	201.4	1378.2	-2353.5	-244946.3	17372.7
	-8204.6	-449.8	-1034.9	2755.9	145756.3	-88367.1
	-8255.2	-483.5	-1160.2	3022.0	166041.3	-93829.6
	-8266.6	-489.9	-1187.1	3076.3	170399.5	-94882.2
	-8317.2	-523.5	-1312.4	3342.4	190684.5	-100344.8
	-7860.7	-220.5	-182.6	949.6	7759.0	-51125.4
	-7911.3	-254.1	-307.9	1215.7	28044.0	-56587.9
	-7922.7	-260.6	-334.8	1269.9	32402.2	-57640.5
	-7973.3	-294.2	-460.1	1536.1	52687.2	-63103.0
Asta	156	nod1	30	141		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4317.3	208.0	-665.3	-951.3	-37476.9	-32950.2
	-4325.6	182.3	-722.6	-728.0	-51636.0	-27227.1
	-4327.6	177.4	-734.9	-682.2	-54665.1	-26133.9
	-4335.9	151.7	-792.2	-458.9	-68824.2	-20410.8
	-4260.8	383.0	-275.2	-2467.1	58825.7	-71939.5
	-4269.1	357.3	-332.6	-2243.8	44666.6	-66216.3
	-4271.1	352.4	-344.8	-2198.0	41637.5	-65123.2
	-4279.5	326.7	-402.2	-1974.6	27478.4	-59400.0
	-4438.8	-170.0	-1506.3	2312.4	-245140.4	51255.9
	-4447.1	-195.7	-1563.6	2535.8	-259299.4	56979.1
	-4449.1	-200.6	-1575.9	2581.5	-262328.6	58072.2
	-4457.4	-226.3	-1633.3	2804.9	-276487.6	63795.4
	-4382.3	5.0	-1116.3	796.7	-148837.8	12266.7
	-4390.6	-20.7	-1173.6	1020.0	-162996.8	17989.8
	-4392.7	-25.6	-1185.9	1065.8	-166026.0	19083.0
	-4401.0	-51.3	-1243.2	1289.1	-180185.0	24806.1
165.	-3822.3	208.0	-665.3	-951.3	72290.6	1372.0
	-3830.6	182.3	-722.6	-728.0	67593.4	2855.9
	-3832.6	177.4	-734.9	-682.2	66587.5	3139.2
	-3840.9	151.7	-792.2	-458.9	61890.4	4623.1
	-3765.8	383.0	-275.2	-2467.1	104238.5	-8738.0
	-3774.1	357.3	-332.6	-2243.8	99541.3	-7254.1
	-3776.1	352.4	-344.8	-2198.0	98535.5	-6970.8
	-3784.5	326.7	-402.2	-1974.6	93838.3	-5486.9
	-3943.8	-170.0	-1506.3	2312.4	3399.0	23207.6
	-3952.1	-195.7	-1563.6	2535.8	-1298.1	24691.5
	-3954.1	-200.6	-1575.9	2581.5	-2304.0	24974.8

165.	-2057.5	156.2	35.3	-658.0	-5965.0	-2795.8
	-2021.7	140.6	16.6	-503.6	-6412.6	-2226.8
	-2014.4	137.7	12.4	-471.8	-6511.3	-2115.8
	-1978.5	122.0	-6.3	-317.4	-6958.9	-1546.8
	-2301.8	263.2	162.5	-1706.4	-2917.5	-6674.5
	-2266.0	247.5	143.8	-1552.1	-3365.0	-6105.5
	-2258.7	244.7	139.6	-1520.2	-3463.8	-5994.6
	-2222.8	229.0	120.9	-1365.9	-3911.3	-5425.6
	-1529.8	-75.1	-239.4	1600.1	-12543.5	5586.9
	-1494.0	-90.8	-258.0	1754.5	-12991.0	6155.9
	-1486.7	-93.6	-262.2	1786.3	-13089.8	6266.9
	-1450.8	-109.3	-280.9	1940.7	-13537.3	6835.9
	-1774.1	31.9	-112.1	551.7	-9495.9	1708.1
	-1738.2	16.2	-130.8	706.0	-9943.4	2277.2
	-1730.9	13.4	-135.0	737.9	-10042.2	2388.1
	-1695.1	-2.3	-153.7	892.2	-10489.7	2957.1
330.	-1686.3	156.2	35.3	-658.0	-11781.3	22982.8
	-1650.4	140.6	16.6	-503.6	-9145.0	20964.5
	-1643.1	137.7	12.4	-471.8	-8554.7	20607.8
	-1607.3	122.0	-6.3	-317.4	-5918.4	18589.6
	-1930.6	263.2	162.5	-1706.4	-29729.2	36751.0
	-1894.7	247.5	143.8	-1552.1	-27092.9	34732.8
	-1887.4	244.7	139.6	-1520.2	-26502.6	34376.1
	-1851.6	229.0	120.9	-1365.9	-23866.3	32357.8
	-1158.6	-75.1	-239.4	1600.1	26950.0	-6801.6
	-1122.7	-90.8	-258.0	1754.5	29586.3	-8819.9
	-1115.4	-93.6	-262.2	1786.3	30176.6	-9176.5
	-1079.5	-109.3	-280.9	1940.7	32812.9	-11194.8
	-1402.9	31.9	-112.1	551.7	9002.1	6966.7
	-1367.0	16.2	-130.8	706.0	11638.4	4948.4
	-1359.7	13.4	-135.0	737.9	12228.7	4591.7
	-1323.8	-2.3	-153.7	892.2	14865.0	2573.4
Asta	159	nodr	6	144		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2061.4	85.4	140.7	-656.7	16266.4	-14098.0
	-2058.3	61.6	110.7	-502.6	10671.6	-9967.9
	-2057.0	57.0	104.3	-470.7	9460.6	-9178.9
	-2054.0	33.2	74.3	-316.6	3865.8	-5048.8
	-2081.7	247.7	344.9	-1702.9	54334.5	-42260.6
	-2078.6	223.9	314.9	-1548.8	48739.7	-38130.5
	-2077.3	219.3	308.4	-1516.9	47528.7	-37341.4
	-2074.3	195.5	278.4	-1362.8	41933.9	-33211.3
	-2018.3	-265.3	-299.6	1596.2	-65849.0	46773.0
	-2015.2	-289.1	-329.6	1750.3	-71443.8	50903.1
	-2013.9	-293.7	-336.0	1782.2	-72654.8	51692.2
	-2010.9	-317.5	-366.0	1936.3	-78249.6	55822.3
	-2038.6	-103.0	-95.4	550.0	-27780.8	18610.5
	-2035.5	-126.8	-125.4	704.1	-33375.6	22740.5
	-2034.2	-131.4	-131.9	736.0	-34586.6	23529.6
	-2031.2	-155.2	-161.9	890.1	-40181.4	27659.7
165.	-1690.1	85.4	140.7	-656.7	-6955.9	-7.1
	-1687.1	61.6	110.7	-502.6	-7601.1	195.7
	-1685.8	57.0	104.3	-470.7	-7741.7	227.3
	-1682.7	33.2	74.3	-316.6	-8386.9	430.1
	-1710.4	247.7	344.9	-1702.9	-2566.9	-1394.2
	-1707.4	223.9	314.9	-1548.8	-3212.0	-1191.3
	-1706.1	219.3	308.4	-1516.9	-3352.6	-1159.8
	-1703.0	195.5	278.4	-1362.8	-3997.8	-957.0
	-1647.0	-265.3	-299.6	1596.2	-16421.9	2999.2
	-1644.0	-289.1	-329.6	1750.3	-17067.1	3202.1
	-1642.7	-293.7	-336.0	1782.2	-17207.7	3233.6
	-1639.6	-317.5	-366.0	1936.3	-17852.9	3436.5
	-1667.3	-103.0	-95.4	550.0	-12032.9	1612.2
	-1664.3	-126.8	-125.4	704.1	-12678.0	1815.0
	-1663.0	-131.4	-131.9	736.0	-12818.6	1846.6
	-1659.9	-155.2	-161.9	890.1	-13463.8	2049.4
330.	-1318.9	85.4	140.7	-656.7	-30178.3	14083.9
	-1315.8	61.6	110.7	-502.6	-25873.8	10359.5
	-1314.5	57.0	104.3	-470.7	-24944.0	9633.4
	-1311.5	33.2	74.3	-316.6	-20639.5	5909.0
	-1339.2	247.7	344.9	-1702.9	-59468.3	39472.3
	-1336.1	223.9	314.9	-1548.8	-55163.8	35747.9
	-1334.8	219.3	308.4	-1516.9	-54234.0	35021.8
	-1331.8	195.5	278.4	-1362.8	-49929.5	31297.4
	-1275.8	-265.3	-299.6	1596.2	33005.1	-40774.5
	-1272.7	-289.1	-329.6	1750.3	37309.6	-44498.9
	-1271.4	-293.7	-336.0	1782.2	38239.4	-45225.0
	-1268.4	-317.5	-366.0	1936.3	42543.9	-48949.4
	-1296.1	-103.0	-95.4	550.0	3715.1	-15386.1
	-1293.0	-126.8	-125.4	704.1	8019.6	-19110.5
	-1291.7	-131.4	-131.9	736.0	8949.4	-19836.6
	-1288.7	-155.2	-161.9	890.1	13253.8	-23561.0
Asta	160	nodr	28	145		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4891.1	1196.5	9.3	-1196.0	23850.6	-176653.6
	-4876.6	1142.8	-16.7	-915.4	17590.3	-164278.6
	-4873.9	1131.7	-22.7	-858.5	16153.9	-161721.1
	-4859.4	1078.1	-48.7	-577.9	9893.6	-149346.1
	-4990.1	1561.6	185.6	-3101.4	66318.9	-260888.1

	-4975.6	1508.0	159.6	-2820.8	60058.6	-248513.1
	-4972.9	1496.9	153.6	-2763.9	58622.2	-245955.6
	-4958.4	1443.2	127.6	-2483.3	52361.9	-233580.7
	-4676.9	408.5	-369.9	2906.3	-67513.8	5110.7
	-4662.4	354.9	-395.9	3186.9	-73774.1	17485.6
	-4659.7	343.8	-401.9	3243.8	-75210.5	20043.1
	-4645.2	290.2	-427.9	3524.4	-81470.8	32418.1
	-4775.9	773.7	-193.6	1000.9	-25045.6	-79123.8
	-4761.4	720.0	-219.6	1281.5	-31305.9	-66748.9
	-4758.7	709.0	-225.6	1338.4	-32742.3	-64191.4
	-4744.2	655.3	-251.6	1619.0	-39002.6	-51816.4
165.	-4372.7	1196.5	9.3	-1196.0	22316.1	20763.2
	-4358.2	1142.8	-16.7	-915.4	20344.8	24287.2
	-4355.5	1131.7	-22.7	-858.5	19896.7	25017.1
	-4341.0	1078.1	-48.7	-577.9	17925.4	28541.1
	-4471.8	1561.6	185.6	-3101.4	35693.7	-3223.1
	-4457.2	1508.0	159.6	-2820.8	33722.4	300.9
	-4454.5	1496.9	153.6	-2763.9	33274.3	1030.8
	-4440.0	1443.2	127.6	-2483.3	31303.0	4554.8
	-4158.6	408.5	-369.9	2906.3	-6473.1	72519.7
	-4144.1	354.9	-395.9	3186.9	-8444.4	76043.7
	-4141.3	343.8	-401.9	3243.8	-8892.5	76773.6
	-4126.8	290.2	-427.9	3524.4	-10863.8	80297.6
	-4257.6	773.7	-193.6	1000.9	6904.5	48533.4
	-4243.1	720.0	-219.6	1281.5	4933.2	52057.4
	-4240.3	709.0	-225.6	1338.4	4485.1	52787.2
	-4225.8	655.3	-251.6	1619.0	2513.8	56311.2
330.	-3854.4	1196.5	9.3	-1196.0	20781.6	218180.0
	-3839.9	1142.8	-16.7	-915.4	23099.3	212853.1
	-3837.2	1131.7	-22.7	-858.5	23639.5	211755.3
	-3822.7	1078.1	-48.7	-577.9	25957.2	206428.3
	-3953.4	1561.6	185.6	-3101.4	5068.5	254441.9
	-3938.9	1508.0	159.6	-2820.8	7386.2	249115.0
	-3936.2	1496.9	153.6	-2763.9	7926.4	248017.1
	-3921.7	1443.2	127.6	-2483.3	10244.1	242690.2
	-3640.2	408.5	-369.9	2906.3	54567.6	139928.8
	-3625.7	354.9	-395.9	3186.9	56885.3	134601.8
	-3623.0	343.8	-401.9	3243.8	57425.5	133504.0
	-3608.5	290.2	-427.9	3524.4	59743.2	128177.0
	-3739.2	773.7	-193.6	1000.9	38854.5	176190.7
	-3724.7	720.0	-219.6	1281.5	41172.2	170863.7
	-3722.0	709.0	-225.6	1338.4	41712.4	169765.9
	-3707.5	655.3	-251.6	1619.0	44030.1	164438.9
Asta	169	nod	19	154		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2402.9	263.0	81.5	-1407.1	14377.2	-48465.6
	-2283.6	237.2	52.3	-1077.0	8461.3	-43216.1
	-2257.9	232.0	45.4	-1011.4	7073.8	-42162.6
	-2138.6	206.1	16.1	-681.2	1157.9	-36913.1
	-3214.7	439.7	279.8	-3658.1	54485.5	-84281.9
	-3095.4	413.8	250.6	-3328.0	48569.6	-79032.4
	-3069.7	408.6	243.7	-3262.3	47182.1	-77978.8
	-2950.4	382.8	214.4	-2932.2	41266.3	-72729.4
	-651.3	-119.1	-344.6	3433.8	-71821.8	29009.1
	-532.0	-145.0	-373.8	3763.9	-77737.7	34258.6
	-506.4	-150.2	-380.7	3829.5	-79125.2	35312.1
	-387.1	-176.0	-410.0	4159.6	-85041.1	40561.6
	-1463.1	57.5	-146.3	1182.8	-31713.5	-6807.2
	-1343.8	31.6	-175.5	1512.9	-37629.4	-1557.7
	-1318.2	26.5	-182.4	1578.6	-39016.9	-504.1
	-1198.9	0.6	-211.7	1908.7	-44932.7	4745.3
165.	-1884.5	263.0	81.5	-1407.1	926.3	-5062.7
	-1765.2	237.2	52.3	-1077.0	-162.3	-4083.7
	-1739.6	232.0	45.4	-1011.4	-412.3	-3881.6
	-1620.3	206.1	16.1	-681.2	-1501.0	-2902.6
	-2696.3	439.7	279.8	-3658.1	8313.9	-11735.3
	-2577.0	413.8	250.6	-3328.0	7225.3	-10756.3
	-2551.4	408.6	243.7	-3262.3	6975.3	-10554.2
	-2432.1	382.8	214.4	-2932.2	5886.7	-9575.2
	-132.9	-119.1	-344.6	3433.8	-14966.8	9355.4
	-13.7	-145.0	-373.8	3763.9	-16055.4	10334.5
	12.0	-150.2	-380.7	3829.5	-16305.4	10536.5
	131.3	-176.0	-410.0	4159.6	-17394.0	11515.5
	-944.8	57.5	-146.3	1182.8	-7579.2	2682.9
	-825.5	31.6	-175.5	1512.9	-8667.8	3661.9
	-799.8	26.5	-182.4	1578.6	-8917.8	3864.0
	-680.5	0.6	-211.7	1908.7	-10006.4	4843.0
330.	-1366.2	263.0	81.5	-1407.1	-12524.7	38340.2
	-1246.9	237.2	52.3	-1077.0	-8786.0	35048.7
	-1221.2	232.0	45.4	-1011.4	-7898.5	34399.3
	-1101.9	206.1	16.1	-681.2	-4159.9	31107.8
	-2178.0	439.7	279.8	-3658.1	-37857.7	60811.3
	-2058.7	413.8	250.6	-3328.0	-34119.1	57519.9
	-2033.0	408.6	243.7	-3262.3	-33231.5	56870.5
	-1913.7	382.8	214.4	-2932.2	-29492.9	53579.0
	385.4	-119.1	-344.6	3433.8	41888.2	-10298.2
	504.7	-145.0	-373.8	3763.9	45626.9	-13589.7
	530.4	-150.2	-380.7	3829.5	46514.4	-14239.1
	649.7	-176.0	-410.0	4159.6	50253.0	-17530.6
	-426.4	57.5	-146.3	1182.8	16555.2	12172.9

		-307.1	31.6	-175.5	1512.9	20293.8	8881.4
		-281.4	26.5	-182.4	1578.6	21181.4	8232.0
		-162.2	0.6	-211.7	1908.7	24920.0	4940.6
Asta	170	nod	2	155			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-6036.7	98.0	35.1	0.0	11590.3	-32324.2	
	-6036.7	77.1	26.3	0.0	8669.8	-25439.0	
	-6036.7	72.8	24.1	0.0	7949.5	-24010.4	
	-6036.7	51.9	15.2	0.0	5029.1	-17125.2	
	-6036.7	240.1	95.2	0.0	31407.1	-79233.1	
	-6036.7	219.2	86.3	0.0	28486.6	-72347.9	
	-6036.7	214.9	84.1	0.0	27766.3	-70919.2	
	-6036.7	194.0	75.3	0.0	24845.9	-64034.1	
	-6036.7	-209.1	-94.1	0.0	-31048.4	68996.0	
	-6036.7	-229.9	-102.9	0.0	-33968.8	75881.2	
	-6036.7	-234.3	-105.1	0.0	-34689.2	77309.8	
	-6036.7	-255.1	-114.0	0.0	-37609.6	84195.0	
	-6036.7	-66.9	-34.0	0.0	-11231.6	22087.1	
	-6036.7	-87.8	-42.9	0.0	-14152.0	28972.3	
	-6036.7	-92.1	-45.1	0.0	-14872.4	30401.0	
	-6036.7	-113.0	-53.9	0.0	-17792.8	37286.1	
165.	-5518.4	98.0	35.1	0.0	5795.1	-16162.1	
	-5518.4	77.1	26.3	0.0	4334.9	-12719.5	
	-5518.4	72.8	24.1	0.0	3974.8	-12005.2	
	-5518.4	51.9	15.2	0.0	2514.5	-8562.6	
	-5518.4	240.1	95.2	0.0	15703.5	-39616.5	
	-5518.4	219.2	86.3	0.0	14243.3	-36174.0	
	-5518.4	214.9	84.1	0.0	13883.2	-35459.6	
	-5518.4	194.0	75.3	0.0	12422.9	-32017.0	
	-5518.4	-209.1	-94.1	0.0	-15524.2	34498.0	
	-5518.4	-229.9	-102.9	0.0	-16984.4	37940.6	
	-5518.4	-234.3	-105.1	0.0	-17344.6	38654.9	
	-5518.4	-255.1	-114.0	0.0	-18804.8	42097.5	
	-5518.4	-66.9	-34.0	0.0	-5615.8	11043.6	
	-5518.4	-87.8	-42.9	0.0	-7076.0	14486.1	
	-5518.4	-92.1	-45.1	0.0	-7436.2	15200.5	
	-5518.4	-113.0	-53.9	0.0	-8896.4	18643.1	
330.	-5000.0	98.0	35.1	0.0	0.0	0.0	
	-5000.0	77.1	26.3	0.0	0.0	0.0	
	-5000.0	72.8	24.1	0.0	0.0	0.0	
	-5000.0	51.9	15.2	0.0	0.0	0.0	
	-5000.0	240.1	95.2	0.0	0.0	0.0	
	-5000.0	219.2	86.3	0.0	0.0	0.0	
	-5000.0	214.9	84.1	0.0	0.0	0.0	
	-5000.0	194.0	75.3	0.0	0.0	0.0	
	-5000.0	-209.1	-94.1	0.0	0.0	0.0	
	-5000.0	-229.9	-102.9	0.0	0.0	0.0	
	-5000.0	-234.3	-105.1	0.0	0.0	0.0	
	-5000.0	-255.1	-114.0	0.0	0.0	0.0	
	-5000.0	-66.9	-34.0	0.0	0.0	0.0	
	-5000.0	-87.8	-42.9	0.0	0.0	0.0	
	-5000.0	-92.1	-45.1	0.0	0.0	0.0	
	-5000.0	-113.0	-53.9	0.0	0.0	0.0	
Asta	171	nod	3	156			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-7215.2	262.5	-83.7	-1385.0	-11345.9	-39629.0	
	-7213.1	234.2	-99.4	-1060.4	-15489.2	-33248.5	
	-7212.6	228.8	-103.7	-992.9	-16540.4	-31988.9	
	-7210.5	200.5	-119.4	-668.2	-20683.7	-25608.3	
	-7229.3	456.1	22.1	-3589.4	16680.2	-83213.7	
	-7227.2	427.8	6.4	-3264.7	12536.9	-76833.1	
	-7226.7	422.4	2.1	-3197.2	11485.7	-75573.5	
	-7224.6	394.1	-13.6	-2872.6	7342.4	-69193.0	
	-7185.4	-157.5	-309.8	3364.6	-71453.1	54768.0	
	-7183.3	-185.8	-325.6	3689.3	-75596.4	61148.5	
	-7182.8	-191.1	-329.9	3756.8	-76647.6	62408.2	
	-7180.7	-219.4	-345.6	4081.4	-80791.0	68788.7	
	-7199.5	36.2	-204.0	1160.3	-43427.0	11183.3	
	-7197.4	7.8	-219.7	1484.9	-47570.3	17563.9	
	-7196.9	2.5	-224.0	1552.4	-48621.5	18823.5	
	-7194.7	-25.8	-239.7	1877.1	-52764.9	25204.0	
165.	-6696.9	262.5	-83.7	-1385.0	2464.6	3678.4	
	-6694.8	234.2	-99.4	-1060.4	911.8	5388.4	
	-6694.2	228.8	-103.7	-992.9	571.1	5763.4	
	-6692.1	200.5	-119.4	-668.2	-981.7	7473.4	
	-6710.9	456.1	22.1	-3589.4	13029.7	-7958.1	
	-6708.8	427.8	6.4	-3264.7	11476.9	-6248.1	
	-6708.3	422.4	2.1	-3197.2	11136.2	-5873.1	
	-6706.2	394.1	-13.6	-2872.6	9583.5	-4163.1	
	-6667.0	-157.5	-309.8	3364.6	-20328.3	28785.4	
	-6664.9	-185.8	-325.6	3689.3	-21881.1	30495.4	
	-6664.4	-191.1	-329.9	3756.8	-22221.8	30870.4	
	-6662.3	-219.4	-345.6	4081.4	-23774.6	32580.4	
	-6681.1	36.2	-204.0	1160.3	-9763.2	17148.9	
	-6679.0	7.8	-219.7	1484.9	-11316.0	18858.9	
	-6678.5	2.5	-224.0	1552.4	-11656.7	19233.9	
	-6676.4	-25.8	-239.7	1877.1	-13209.4	20943.9	
330.	-6178.5	262.5	-83.7	-1385.0	16269.2	46987.2	
	-6176.4	234.2	-99.4	-1060.4	17307.0	44026.8	

		-6175.9	228.8	-103.7	-992.9	17680.3	43516.0
		-6173.8	200.5	-119.4	-668.2	18718.1	40555.5
		-6192.6	456.1	22.1	-3589.4	9373.4	67298.9
		-6190.5	427.8	6.4	-3264.7	10411.2	64338.5
		-6189.9	422.4	2.1	-3197.2	10784.4	63827.7
		-6187.8	394.1	-13.6	-2872.6	11822.2	60867.3
		-6148.7	-157.5	-309.8	3364.6	30798.8	2802.3
		-6146.6	-185.8	-325.6	3689.3	31836.6	-158.1
		-6146.1	-191.1	-329.9	3756.8	32209.8	-668.9
		-6144.0	-219.4	-345.6	4081.4	33247.6	-3629.3
		-6162.8	36.2	-204.0	1160.3	23902.9	23114.0
		-6160.6	7.8	-219.7	1484.9	24940.7	20153.6
		-6160.1	2.5	-224.0	1552.4	25314.0	19642.8
		-6158.0	-25.8	-239.7	1877.1	26351.8	16682.4
Asta	172	nod	1	157			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-5380.4	346.2	-87.9	-1392.1	-1970.5	-66525.7	
	-5364.7	275.4	-63.9	-1065.5	364.4	-53117.2	
	-5361.3	261.3	-60.1	-997.8	645.6	-50414.4	
	-5345.7	190.5	-36.2	-671.2	2980.5	-37005.9	
	-5486.8	828.3	-251.2	-3609.9	-17936.6	-157860.6	
	-5471.2	757.5	-227.3	-3283.4	-15601.7	-144452.1	
	-5467.7	743.4	-223.4	-3215.6	-15320.6	-141749.3	
	-5452.1	672.6	-199.5	-2889.0	-12985.7	-128340.8	
	-5150.7	-695.0	265.6	3384.2	32658.0	130708.6	
	-5135.0	-765.8	289.5	3710.8	34993.0	144117.1	
	-5131.6	-779.9	293.4	3778.6	35274.1	146819.9	
	-5116.0	-850.7	317.3	4105.1	37609.0	160228.4	
	-5257.1	-212.9	102.3	1166.4	16691.9	39373.7	
	-5241.5	-283.7	126.2	1492.9	19026.8	52782.2	
	-5238.1	-297.8	130.1	1560.7	19307.9	55485.0	
	-5222.4	-368.6	154.0	1887.3	21642.8	68893.5	
165.	-4862.0	346.2	-87.9	-1392.1	12530.6	-9409.3	
	-4846.3	275.4	-63.9	-1065.5	10916.7	-7677.2	
	-4842.9	261.3	-60.1	-997.8	10561.1	-7299.0	
	-4827.3	190.5	-36.2	-671.2	8947.2	-5566.9	
	-4968.4	828.3	-251.2	-3609.9	23514.7	-21198.6	
	-4952.8	757.5	-227.3	-3283.4	21900.8	-19466.4	
	-4949.4	743.4	-223.4	-3215.6	21545.2	-19088.3	
	-4933.7	672.6	-199.5	-2889.0	19931.3	-17356.1	
	-4632.3	-695.0	265.6	3384.2	-11166.8	16026.4	
	-4616.7	-765.8	289.5	3710.8	-12780.7	17758.6	
	-4613.3	-779.9	293.4	3778.6	-13136.2	18136.7	
	-4597.6	-850.7	317.3	4105.1	-14750.1	19868.9	
	-4738.7	-212.9	102.3	1166.4	-182.7	4237.2	
	-4723.1	-283.7	126.2	1492.9	-1796.6	5969.3	
	-4719.7	-297.8	130.1	1560.7	-2152.1	6347.5	
	-4704.0	-368.6	154.0	1887.3	-3766.0	8079.6	
330.	-4343.6	346.2	-87.9	-1392.1	27029.1	47707.3	
	-4328.0	275.4	-63.9	-1065.5	21466.4	37763.1	
	-4324.6	261.3	-60.1	-997.8	20478.5	35816.2	
	-4308.9	190.5	-36.2	-671.2	14915.8	25872.0	
	-4450.1	828.3	-251.2	-3609.9	64963.4	115463.7	
	-4434.4	757.5	-227.3	-3283.4	59400.7	105519.5	
	-4431.0	743.4	-223.4	-3215.6	58412.9	103572.6	
	-4415.4	672.6	-199.5	-2889.0	52850.1	93628.4	
	-4113.9	-695.0	265.6	3384.2	-54993.4	-98655.7	
	-4098.3	-765.8	289.5	3710.8	-60556.1	-108599.9	
	-4094.9	-779.9	293.4	3778.6	-61544.0	-110546.7	
	-4079.2	-850.7	317.3	4105.1	-67106.7	-120490.9	
	-4220.4	-212.9	102.3	1166.4	-17059.1	-30899.3	
	-4204.7	-283.7	126.2	1492.9	-22621.8	-40843.5	
	-4201.3	-297.8	130.1	1560.7	-23609.7	-42790.3	
	-4185.7	-368.6	154.0	1887.3	-29172.4	-52734.5	
Asta	173	nod	80	158			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-11037.5	-2181.5	-228.2	-1353.7	-46929.6	153299.1	
	-11046.5	-2203.7	-204.2	-1037.7	-42226.2	157172.0	
	-11048.4	-2208.2	-200.2	-973.1	-41450.3	157965.7	
	-11057.4	-2230.4	-176.1	-657.0	-36746.9	161838.6	
	-10975.6	-2030.4	-391.5	-3507.5	-78822.4	126857.2	
	-10984.7	-2052.6	-367.5	-3191.5	-74119.0	130730.0	
	-10986.5	-2057.1	-363.5	-3126.9	-73343.2	131523.7	
	-10995.6	-2079.2	-339.4	-2810.8	-68639.7	135396.6	
	-11171.5	-2508.8	123.7	3293.7	21813.8	210553.2	
	-11180.5	-2530.9	147.8	3609.8	26517.2	214426.1	
	-11182.3	-2535.5	151.8	3674.4	27293.1	215219.8	
	-11191.4	-2557.6	175.9	3990.4	31996.5	219092.7	
	-11109.6	-2357.7	-39.6	1139.9	-10079.1	184111.3	
	-11118.7	-2379.8	-15.5	1456.0	-5375.6	187984.2	
	-11120.5	-2384.4	-11.5	1520.6	-4599.8	188777.9	
	-11129.5	-2406.5	12.6	1836.7	103.7	192650.7	
165.	-10519.1	-2181.5	-228.2	-1353.7	-9270.7	-206655.9	
	-10528.2	-2203.7	-204.2	-1037.7	-8541.1	-206435.3	
	-10530.0	-2208.2	-200.2	-973.1	-8422.0	-206390.7	
	-10539.1	-2230.4	-176.1	-657.0	-7692.3	-206170.1	
	-10457.2	-2030.4	-391.5	-3507.5	-14218.5	-208162.2	
	-10466.3	-2052.6	-367.5	-3191.5	-13488.8	-207941.7	
	-10468.1	-2057.1	-363.5	-3126.9	-13369.8	-207897.1	

		-10477.2	-2079.2	-339.4	-2810.8	-12640.1	-207676.5
		-10653.1	-2508.8	123.7	3293.7	1395.4	-203400.8
		-10662.2	-2530.9	147.8	3609.8	2125.0	-203180.2
		-10664.0	-2535.5	151.8	3674.4	2244.1	-203135.6
		-10673.0	-2557.6	175.9	3990.4	2973.7	-202915.0
		-10591.2	-2357.7	-39.6	1139.9	-3552.4	-204907.2
		-10600.3	-2379.8	-15.5	1456.0	-2822.8	-204686.6
		-10602.1	-2384.4	-11.5	1520.6	-2703.7	-204642.0
		-10611.2	-2406.5	12.6	1836.7	-1974.1	-204421.4
330.		-10000.8	-2181.5	-228.2	-1353.7	28388.3	-566610.8
		-10009.8	-2203.7	-204.2	-1037.7	25144.1	-570042.5
		-10011.6	-2208.2	-200.2	-973.1	24606.4	-570747.1
		-10020.7	-2230.4	-176.1	-657.0	21362.2	-574178.8
		-9938.9	-2030.4	-391.5	-3507.5	50385.5	-543181.6
		-9947.9	-2052.6	-367.5	-3191.5	47141.3	-546613.3
		-9949.8	-2057.1	-363.5	-3126.9	46603.6	-547317.9
		-9958.8	-2079.2	-339.4	-2810.8	43359.4	-550749.6
		-10134.7	-2508.8	123.7	3293.7	-19023.0	-617354.8
		-10143.8	-2530.9	147.8	3609.8	-22267.2	-620786.5
		-10145.6	-2535.5	151.8	3674.4	-22804.9	-621491.1
		-10154.7	-2557.6	175.9	3990.4	-26049.1	-624922.8
		-10072.9	-2357.7	-39.6	1139.9	2974.2	-593925.6
		-10081.9	-2379.8	-15.5	1456.0	-270.0	-597357.4
		-10083.7	-2384.4	-11.5	1520.6	-807.7	-598061.9
		-10092.8	-2406.5	12.6	1836.7	-4051.9	-601493.6
Asta	174	nod1	81	159			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-10760.5	-2024.9	-139.6	-1342.1	-28535.0	124807.1	
	-10764.7	-2037.5	-116.0	-1030.3	-23893.3	126912.1	
	-10765.6	-2040.1	-112.1	-966.2	-23132.3	127336.7	
	-10769.8	-2052.7	-88.5	-654.4	-18490.6	129441.7	
	-10731.7	-1938.6	-299.5	-3469.1	-59978.2	110450.8	
	-10735.9	-1951.3	-275.9	-3157.3	-55336.5	112555.9	
	-10736.7	-1953.8	-272.0	-3093.2	-54575.5	112980.4	
	-10741.0	-1966.5	-248.4	-2781.4	-49933.7	115085.5	
	-10823.1	-2211.7	204.8	3260.3	39194.8	155891.7	
	-10827.3	-2224.4	228.4	3572.2	43836.6	157996.8	
	-10828.2	-2226.9	232.3	3636.2	44597.6	158421.3	
	-10832.4	-2239.5	255.9	3948.1	49239.3	160526.4	
	-10794.3	-2125.5	44.9	1133.4	7751.6	141535.5	
	-10798.5	-2138.1	68.5	1445.2	12393.4	143640.5	
	-10799.4	-2140.6	72.4	1509.3	13154.4	144065.0	
	-10803.6	-2153.3	96.0	1821.1	17796.1	146170.1	
165.	-10242.1	-2024.9	-139.6	-1342.1	-5498.1	-209298.3	
	-10246.4	-2037.5	-116.0	-1030.3	-4750.8	-209279.8	
	-10247.2	-2040.1	-112.1	-966.2	-4629.9	-209275.6	
	-10251.4	-2052.7	-88.5	-654.4	-3882.6	-209257.0	
	-10213.3	-1938.6	-299.5	-3469.1	-10560.3	-209423.7	
	-10217.5	-1951.3	-275.9	-3157.3	-9813.0	-209405.1	
	-10218.4	-1953.8	-272.0	-3093.2	-9692.0	-209400.9	
	-10222.6	-1966.5	-248.4	-2781.4	-8944.8	-209382.3	
	-10304.8	-2211.7	204.8	3260.3	5407.3	-209039.2	
	-10309.0	-2224.4	228.4	3572.2	6154.6	-209020.7	
	-10309.8	-2226.9	232.3	3636.2	6275.6	-209016.4	
	-10314.0	-2239.5	255.9	3948.1	7022.9	-208997.9	
	-10275.9	-2125.5	44.9	1133.4	345.2	-209164.5	
	-10280.1	-2138.1	68.5	1445.2	1092.5	-209146.0	
	-10281.0	-2140.6	72.4	1509.3	1213.4	-209141.7	
	-10285.2	-2153.3	96.0	1821.1	1960.7	-209123.2	
330.	-9723.8	-2024.9	-139.6	-1342.1	17538.8	-543403.0	
	-9728.0	-2037.5	-116.0	-1030.3	14391.6	-545471.0	
	-9728.9	-2040.1	-112.1	-966.2	13872.5	-545887.0	
	-9733.1	-2052.7	-88.5	-654.4	10725.3	-547955.0	
	-9694.9	-1938.6	-299.5	-3469.1	38857.7	-529297.3	
	-9699.2	-1951.3	-275.9	-3157.3	35710.5	-531365.3	
	-9700.0	-1953.8	-272.0	-3093.2	35191.4	-531781.3	
	-9704.2	-1966.5	-248.4	-2781.4	32044.2	-533849.3	
	-9786.4	-2211.7	204.8	3260.3	-28380.2	-573971.0	
	-9790.6	-2224.4	228.4	3572.2	-31527.3	-576039.0	
	-9791.5	-2226.9	232.3	3636.2	-32046.4	-576455.0	
	-9795.7	-2239.5	255.9	3948.1	-35193.6	-578523.0	
	-9757.6	-2125.5	44.9	1133.4	-7061.3	-559865.4	
	-9761.8	-2138.1	68.5	1445.2	-10208.5	-561933.4	
	-9762.6	-2140.6	72.4	1509.3	-10727.5	-562349.4	
	-9766.8	-2153.3	96.0	1821.1	-13874.7	-564417.4	
Asta	175	nod1	82	160			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-10836.9	-2060.7	-99.6	-1341.7	-19314.5	127174.6	
	-10839.0	-2066.3	-76.1	-1028.6	-14691.9	128041.6	
	-10839.4	-2067.4	-72.2	-965.4	-13933.5	128205.3	
	-10841.5	-2073.0	-48.7	-652.3	-9310.8	129072.2	
	-10822.5	-2022.2	-258.9	-3475.7	-50605.1	121275.6	
	-10824.6	-2027.8	-235.4	-3162.6	-45982.5	122142.6	
	-10825.0	-2028.9	-231.5	-3099.4	-45224.1	122306.2	
	-10827.1	-2034.6	-208.0	-2786.3	-40601.4	123173.2	
	-10868.2	-2143.7	243.1	3264.0	48034.5	139876.1	
	-10870.3	-2149.4	266.6	3577.1	52657.1	140743.1	
	-10870.7	-2150.4	270.5	3640.3	53415.6	140906.8	
	-10872.8	-2156.1	294.0	3953.4	58038.2	141773.7	

165.	-10853.8	-2105.2	83.9	1130.0	16743.9	133977.1
	-10855.9	-2110.9	107.4	1443.1	21366.5	134844.1
	-10856.3	-2112.0	111.3	1506.3	22124.9	135007.8
	-10858.4	-2117.6	134.8	1819.3	26747.6	135874.7
	-10318.5	-2060.7	-99.6	-1341.7	-2874.8	-212833.6
	-10320.6	-2066.3	-76.1	-1028.6	-2133.9	-212899.4
	-10321.0	-2067.4	-72.2	-965.4	-2013.3	-212912.0
	-10323.1	-2073.0	-48.7	-652.3	-1272.3	-212977.7
	-10304.2	-2022.2	-258.9	-3475.7	-7890.6	-212384.2
	-10306.3	-2027.8	-235.4	-3162.6	-7149.6	-212449.9
	-10306.7	-2028.9	-231.5	-3099.4	-7029.0	-212462.5
	-10308.8	-2034.6	-208.0	-2786.3	-6288.0	-212528.2
	-10349.8	-2143.7	243.1	3264.0	7922.3	-213836.8
	-10352.0	-2149.4	266.6	3577.1	8663.3	-213902.6
	-10352.3	-2150.4	270.5	3640.3	8783.8	-213915.2
	-10354.4	-2156.1	294.0	3953.4	9524.8	-213980.9
	-10335.5	-2105.2	83.9	1130.0	2906.5	-213387.4
	-10337.6	-2110.9	107.4	1443.1	3647.5	-213453.1
	-10338.0	-2112.0	111.3	1506.3	3768.1	-213465.7
	-10340.1	-2117.6	134.8	1819.3	4509.1	-213531.4
330.	-9800.2	-2060.7	-99.6	-1341.7	13564.9	-552843.2
	-9802.3	-2066.3	-76.1	-1028.6	10424.2	-553841.6
	-9802.7	-2067.4	-72.2	-965.4	9906.9	-554030.6
	-9804.8	-2073.0	-48.7	-652.3	6766.2	-555028.9
	-9785.8	-2022.2	-258.9	-3475.7	34824.0	-546045.2
	-9787.9	-2027.8	-235.4	-3162.6	31683.3	-547043.6
	-9788.3	-2028.9	-231.5	-3099.4	31166.1	-547232.6
	-9790.4	-2034.6	-208.0	-2786.3	28025.4	-548230.9
	-9831.5	-2143.7	243.1	3264.0	-32189.9	-567548.6
	-9833.6	-2149.4	266.6	3577.1	-35330.6	-568546.9
	-9834.0	-2150.4	270.5	3640.3	-35847.9	-568735.9
	-9836.1	-2156.1	294.0	3953.4	-38988.6	-569734.3
	-9817.1	-2105.2	83.9	1130.0	-10930.8	-560750.6
	-9819.2	-2110.9	107.4	1443.1	-14071.5	-561749.0
	-9819.6	-2112.0	111.3	1506.3	-14588.7	-561937.9
	-9821.7	-2117.6	134.8	1819.3	-17729.4	-562936.3
Asta PROGR. 0.	176	nod	83	161		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-10836.7	-2118.4	-50.2	-1326.2	-10000.9	141581.5
	-10836.7	-2117.5	-26.6	-1012.0	-5358.3	141333.8
	-10836.6	-2117.2	-22.7	-951.3	-4591.7	141262.0
	-10836.6	-2116.3	0.9	-637.1	50.8	141014.2
	-10836.9	-2124.8	-209.9	-3464.6	-41410.6	143303.0
	-10836.9	-2123.9	-186.3	-3150.4	-36768.0	143055.3
	-10836.8	-2123.6	-182.4	-3089.7	-36001.5	142983.5
	-10836.8	-2122.7	-158.8	-2775.5	-31358.9	142735.8
	-10837.2	-2104.9	293.1	3252.2	57532.7	137885.6
	-10837.2	-2103.9	316.7	3566.4	62175.3	137637.9
	-10837.1	-2103.6	320.6	3627.0	62941.8	137566.1
	-10837.1	-2102.7	344.2	3941.2	67584.4	137318.4
	-10837.3	-2111.3	133.4	1113.8	26123.0	139607.2
	-10837.3	-2110.4	157.0	1428.0	30765.5	139359.4
	-10837.2	-2110.0	160.9	1488.6	31532.1	139287.7
	-10837.2	-2109.1	184.5	1802.9	36174.7	139039.9
	-10318.4	-2118.4	-50.2	-1326.2	-1718.7	-207956.3
	-10318.4	-2117.5	-26.6	-1012.0	-970.1	-208053.5
165.	-10318.3	-2117.2	-22.7	-951.3	-846.5	-208072.5
	-10318.3	-2116.3	0.9	-637.1	-98.0	-208169.7
	-10318.5	-2124.8	-209.9	-3464.6	-6782.9	-207291.0
	-10318.5	-2123.9	-186.3	-3150.4	-6034.3	-207388.2
	-10318.4	-2123.6	-182.4	-3089.7	-5910.7	-207407.3
	-10318.4	-2122.7	-158.8	-2775.5	-5162.2	-207504.5
	-10318.8	-2104.9	293.1	3252.2	9169.2	-209416.9
	-10318.8	-2103.9	316.7	3566.4	9917.7	-209514.1
	-10318.7	-2103.6	320.6	3627.0	10041.3	-209533.1
	-10318.7	-2102.7	344.2	3941.2	10789.9	-209630.3
	-10319.0	-2111.3	133.4	1113.8	4105.0	-208751.6
	-10319.0	-2110.4	157.0	1428.0	4853.5	-208848.8
	-10318.9	-2110.0	160.9	1488.6	4977.1	-208867.9
	-10318.9	-2109.1	184.5	1802.9	5725.7	-208965.1
	-9800.0	-2118.4	-50.2	-1326.2	6563.5	-557498.7
	-9800.0	-2117.5	-26.6	-1012.0	3418.1	-557445.4
	-9799.9	-2117.2	-22.7	-951.3	2898.7	-557410.0
	-9799.9	-2116.3	0.9	-637.1	-246.8	-557356.7
	-9800.2	-2124.8	-209.9	-3464.6	27844.9	-557889.7
	-9800.1	-2123.9	-186.3	-3150.4	24699.4	-557836.4
330.	-9800.1	-2123.6	-182.4	-3089.7	24180.0	-557801.0
	-9800.1	-2122.7	-158.8	-2775.5	21034.5	-557747.7
	-9800.5	-2104.9	293.1	3252.2	-39194.3	-556716.4
	-9800.4	-2103.9	316.7	3566.4	-42339.8	-556663.0
	-9800.4	-2103.6	320.6	3627.0	-42859.2	-556627.7
	-9800.3	-2102.7	344.2	3941.2	-46004.7	-556574.4
	-9800.6	-2111.3	133.4	1113.8	-17913.0	-557107.4
	-9800.6	-2110.4	157.0	1428.0	-21058.5	-557054.1
	-9800.5	-2110.0	160.9	1488.6	-21577.9	-557018.7
	-9800.5	-2109.1	184.5	1802.9	-24723.3	-556965.4
Asta PROGR. 0.	177	nod	84	162		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-10957.9	-2175.4	-15.2	-1329.7	-1129.5	168865.0

	-10953.8	-2167.6	9.1	-1014.2	3608.0	167393.5
	-10953.0	-2165.8	13.2	-952.8	4401.5	167064.0
	-10948.9	-2158.0	37.5	-637.3	9139.0	165592.6
	-10985.9	-2228.8	-179.6	-3471.3	-33174.4	178909.9
	-10981.8	-2221.0	-155.3	-3155.8	-28436.9	177438.4
	-10981.0	-2219.2	-151.3	-3094.4	-27643.5	177109.0
	-10976.8	-2211.4	-126.9	-2778.9	-22906.0	175637.5
	-10898.4	-2062.1	338.1	3250.0	67706.3	147514.9
	-10894.3	-2054.3	362.4	3565.5	72443.8	146043.4
	-10893.4	-2052.5	366.5	3626.8	73237.2	145714.0
	-10889.3	-2044.7	390.8	3942.3	77974.7	144242.5
	-10926.4	-2115.5	173.6	1108.4	35661.3	157559.8
	-10922.3	-2107.7	197.9	1423.9	40398.8	156088.4
	-10921.4	-2105.9	202.0	1485.3	41192.3	155758.9
	-10917.3	-2098.1	226.3	1800.8	45929.8	154287.4
165.	-10439.6	-2175.4	-15.2	-1329.7	1376.0	-190075.0
	-10435.5	-2167.6	9.1	-1014.2	2101.8	-190256.8
	-10434.6	-2165.8	13.2	-952.8	2222.5	-190293.3
	-10430.5	-2158.0	37.5	-637.3	2948.3	-190475.1
	-10467.6	-2228.8	-179.6	-3471.3	-3532.8	-188837.0
	-10463.5	-2221.0	-155.3	-3155.8	-2807.0	-189018.8
	-10462.6	-2219.2	-151.3	-3094.4	-2686.3	-189055.3
	-10458.5	-2211.4	-126.9	-2778.9	-1960.5	-189237.1
	-10380.0	-2062.1	338.1	3250.0	11920.7	-192731.0
	-10375.9	-2054.3	362.4	3565.5	12646.5	-192912.8
	-10375.0	-2052.5	366.5	3626.8	12767.2	-192949.3
	-10370.9	-2044.7	390.8	3942.3	13493.0	-193131.1
	-10408.0	-2115.5	173.6	1108.4	7011.9	-191493.0
	-10403.9	-2107.7	197.9	1423.9	7737.7	-191674.8
	-10403.0	-2105.9	202.0	1485.3	7858.4	-191711.3
330.	-10398.9	-2098.1	226.3	1800.8	8584.2	-191893.1
	-9921.2	-2175.4	-15.2	-1329.7	3881.5	-549015.5
	-9917.1	-2167.6	9.1	-1014.2	595.6	-547907.6
	-9916.2	-2165.8	13.2	-952.8	43.6	-547651.1
	-9912.1	-2158.0	37.5	-637.3	-3242.4	-546543.2
	-9949.2	-2228.8	-179.6	-3471.3	26108.9	-556584.4
	-9945.1	-2221.0	-155.3	-3155.8	22822.9	-555476.5
	-9944.2	-2219.2	-151.3	-3094.4	22270.9	-555220.0
	-9940.1	-2211.4	-126.9	-2778.9	18985.0	-554112.1
	-9861.6	-2062.1	338.1	3250.0	-43864.9	-532976.5
	-9857.5	-2054.3	362.4	3565.5	-47150.8	-531868.6
	-9856.7	-2052.5	366.5	3626.8	-47702.8	-531612.1
	-9852.6	-2044.7	390.8	3942.3	-50988.8	-530504.2
	-9889.6	-2115.5	173.6	1108.4	-21637.5	-540545.4
	-9885.5	-2107.7	197.9	1423.9	-24923.5	-539437.5
	-9884.7	-2105.9	202.0	1485.3	-25475.5	-539181.0
	-9880.6	-2098.1	226.3	1800.8	-28761.4	-538073.1
Asta	178	nod	85	163		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2209.1	207.6	215.9	-1322.7	17259.2	-47894.1
	-2205.9	220.9	233.8	-1011.1	21275.5	-50678.7
	-2204.9	223.7	236.9	-950.1	21955.9	-51257.3
	-2201.7	237.0	254.9	-638.6	25972.2	-54041.9
	-2231.5	117.0	94.3	-3437.2	-9909.0	-28945.8
	-2228.2	130.3	112.2	-3125.7	-5892.6	-31730.4
	-2227.2	133.1	115.3	-3064.6	-5212.3	-32309.0
	-2224.0	146.4	133.3	-2753.1	-1196.0	-35093.6
	-2162.4	400.8	476.9	3213.3	75590.6	-88315.8
	-2159.1	414.2	494.9	3524.9	79607.0	-91100.4
	-2158.1	416.9	497.9	3585.9	80287.3	-91679.1
	-2154.9	430.2	515.9	3897.4	84303.6	-94463.7
	-2184.7	310.3	355.3	1098.8	48422.5	-69367.5
	-2181.4	323.6	373.3	1410.3	52438.8	-72152.1
	-2180.4	326.3	376.3	1471.4	53119.1	-72730.8
	-2177.2	339.6	394.3	1782.9	57135.5	-75515.4
165.	-1690.8	207.6	215.9	-1322.7	-18357.3	-13643.7
	-1687.6	220.9	233.8	-1011.1	-17306.5	-14231.5
	-1686.5	223.7	236.9	-950.1	-17129.0	-14354.8
	-1683.3	237.0	254.9	-638.6	-16078.2	-14942.6
	-1713.1	117.0	94.3	-3437.2	-25464.4	-9642.4
	-1709.9	130.3	112.2	-3125.7	-24413.7	-10230.3
	-1708.8	133.1	115.3	-3064.6	-24236.1	-10353.5
	-1705.6	146.4	133.3	-2753.1	-23185.4	-10941.3
	-1644.0	400.8	476.9	3213.3	-3098.4	-22176.9
	-1640.8	414.2	494.9	3524.9	-2047.6	-22764.8
	-1639.7	416.9	497.9	3585.9	-1870.1	-22888.0
	-1636.5	430.2	515.9	3897.4	-819.3	-23475.9
	-1666.3	310.3	355.3	1098.8	-10205.5	-18175.7
	-1663.1	323.6	373.3	1410.3	-9154.8	-18763.5
	-1662.0	326.3	376.3	1471.4	-8977.2	-18886.8
	-1658.8	339.6	394.3	1782.9	-7926.5	-19474.6
330.	-1172.4	207.6	215.9	-1322.7	-53973.7	20606.7
	-1169.2	220.9	233.8	-1011.1	-55888.6	22215.6
	-1168.2	223.7	236.9	-950.1	-56213.8	22547.8
	-1164.9	237.0	254.9	-638.6	-58128.7	24156.7
	-1194.7	117.0	94.3	-3437.2	-41019.8	9660.9
	-1191.5	130.3	112.2	-3125.7	-42934.7	11269.9
	-1190.5	133.1	115.3	-3064.6	-43259.9	11602.0
	-1187.2	146.4	133.3	-2753.1	-45174.8	13210.9
	-1125.6	400.8	476.9	3213.3	-81787.4	43961.9

		-1122.4	414.2	494.9	3524.9	-83702.2	45570.9
		-1121.4	416.9	497.9	3585.9	-84027.4	45903.0
		-1118.1	430.2	515.9	3897.4	-85942.3	47511.9
		-1147.9	310.3	355.3	1098.8	-68833.5	33016.2
		-1144.7	323.6	373.3	1410.3	-70748.3	34625.1
		-1143.7	326.3	376.3	1471.4	-71073.6	34957.2
		-1140.4	339.6	394.3	1782.9	-72988.4	36566.1
Asta	179	nod	72	164			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-2228.3	-301.6	402.2	-1315.4	58989.5	67144.2	
	-2229.0	-287.8	378.8	-1004.2	53738.5	64258.4	
	-2229.1	-284.7	373.3	-938.5	52515.7	63608.0	
	-2229.8	-270.8	349.9	-627.3	47264.7	60722.2	
	-2223.3	-395.8	561.3	-3428.8	94593.6	86776.6	
	-2224.0	-382.0	537.8	-3117.7	89342.6	83890.8	
	-2224.1	-378.8	532.3	-3051.9	88119.8	83240.4	
	-2224.7	-365.0	508.9	-2740.7	82868.8	80354.6	
	-2238.2	-100.5	60.8	3218.4	-17451.0	25220.7	
	-2238.9	-86.6	37.4	3529.6	-22702.1	22335.0	
	-2239.0	-83.5	31.9	3595.3	-23924.8	21684.5	
	-2239.7	-69.7	8.5	3906.5	-29175.9	18798.7	
	-2233.2	-194.7	219.8	1105.0	18153.1	44853.1	
	-2233.9	-180.8	196.4	1416.1	12902.0	41967.3	
	-2234.0	-177.7	190.9	1481.9	11679.3	41316.9	
	-2234.7	-163.9	167.5	1793.1	6428.2	38431.1	
165.	-1709.9	-301.6	402.2	-1315.4	-7378.8	17376.5	
	-1710.6	-287.8	378.8	-1004.2	-8760.1	16775.1	
	-1710.7	-284.7	373.3	-938.5	-9082.1	16639.9	
	-1711.4	-270.8	349.9	-627.3	-10463.5	16038.5	
	-1704.9	-395.8	561.3	-3428.8	1987.0	21468.8	
	-1705.6	-382.0	537.8	-3117.7	605.7	20867.4	
	-1705.7	-378.8	532.3	-3051.9	283.6	20732.1	
	-1706.4	-365.0	508.9	-2740.7	-1097.7	20130.8	
	-1719.9	-100.5	60.8	3218.4	-27486.0	8640.9	
	-1720.6	-86.6	37.4	3529.6	-28867.3	8039.5	
	-1720.7	-83.5	31.9	3595.3	-29189.4	7904.2	
	-1721.4	-69.7	8.5	3906.5	-30570.7	7302.9	
	-1714.9	-194.7	219.8	1105.0	-18120.2	12733.1	
	-1715.6	-180.8	196.4	1416.1	-19501.6	12131.7	
	-1715.6	-177.7	190.9	1481.9	-19823.6	11996.5	
	-1716.3	-163.9	167.5	1793.1	-21204.9	11395.1	
330.	-1191.6	-301.6	402.2	-1315.4	-73747.1	-32391.2	
	-1192.3	-287.8	378.8	-1004.2	-71258.7	-30708.2	
	-1192.4	-284.7	373.3	-938.5	-70680.0	-30328.2	
	-1193.1	-270.8	349.9	-627.3	-68191.6	-28645.2	
	-1186.6	-395.8	561.3	-3428.8	-90619.6	-43839.0	
	-1187.3	-382.0	537.8	-3117.7	-88131.3	-42156.0	
	-1187.3	-378.8	532.3	-3051.9	-87552.5	-41776.1	
	-1188.0	-365.0	508.9	-2740.7	-85064.2	-40093.1	
	-1201.5	-100.5	60.8	3218.4	-37521.0	-7939.0	
	-1202.2	-86.6	37.4	3529.6	-35032.6	-6256.0	
	-1202.3	-83.5	31.9	3595.3	-34453.9	-5876.0	
	-1203.0	-69.7	8.5	3906.5	-31965.5	-4193.0	
	-1196.5	-194.7	219.8	1105.0	-54393.5	-19386.9	
	-1197.2	-180.8	196.4	1416.1	-51905.2	-17703.8	
	-1197.3	-177.7	190.9	1481.9	-51326.4	-17323.9	
	-1198.0	-163.9	167.5	1793.1	-48838.1	-15640.9	
Asta	180	nod	73	165			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-10916.9	2190.9	223.4	-1335.8	45614.1	-178008.4	
	-10921.3	2198.4	191.5	-1021.2	39387.0	-179391.4	
	-10922.3	2200.1	184.1	-951.6	37929.5	-179713.4	
	-10926.8	2207.6	152.2	-637.0	31702.4	-181096.4	
	-10886.7	2139.8	439.3	-3474.7	87835.8	-168568.4	
	-10891.2	2147.3	407.5	-3160.1	81608.7	-169951.4	
	-10892.2	2149.0	400.0	-3090.5	80151.2	-170273.4	
	-10896.6	2156.5	368.2	-2775.9	73924.1	-171656.4	
	-10981.1	2299.4	-240.4	3249.6	-45072.8	-198085.8	
	-10985.5	2306.9	-272.2	3564.1	-51299.8	-199468.8	
	-10986.5	2308.6	-279.7	3633.8	-52757.4	-199790.8	
	-10991.0	2316.1	-311.5	3948.3	-58984.4	-201173.7	
	-10950.9	2248.3	-24.5	1110.7	-2851.0	-188645.8	
	-10955.4	2255.8	-56.3	1425.2	-9078.1	-190028.8	
	-10956.4	2257.6	-63.8	1494.9	-10535.6	-190350.8	
	-10960.8	2265.0	-95.6	1809.4	-16762.7	-191733.8	
165.	-10398.5	2190.9	223.4	-1335.8	8755.2	183489.7	
	-10402.9	2198.4	191.5	-1021.2	7782.6	183341.6	
	-10404.0	2200.1	184.1	-951.6	7554.3	183307.7	
	-10408.4	2207.6	152.2	-637.0	6581.6	183159.5	
	-10368.4	2139.8	439.3	-3474.7	15350.2	184501.7	
	-10372.8	2147.3	407.5	-3160.1	14377.6	184353.5	
	-10373.8	2149.0	400.0	-3090.5	14149.3	184319.7	
	-10378.3	2156.5	368.2	-2775.9	13176.6	184171.5	
	-10462.7	2299.4	-240.4	3249.6	-5408.7	181316.6	
	-10467.2	2306.9	-272.2	3564.1	-6381.3	181168.5	
	-10468.2	2308.6	-279.7	3633.8	-6609.7	181134.6	
	-10472.6	2316.1	-311.5	3948.3	-7582.3	180986.4	
	-10432.6	2248.3	-24.5	1110.7	1186.3	182328.6	
	-10437.0	2255.8	-56.3	1425.2	213.7	182180.4	

330.	-10438.0	2257.6	-63.8	1494.9	-14.7	182146.6
	-10442.5	2265.0	-95.6	1809.4	-987.3	181998.4
	-9880.1	2190.9	223.4	-1335.8	-28103.6	544987.6
	-9884.6	2198.4	191.5	-1021.2	-23821.8	546074.2
	-9885.6	2200.1	184.1	-951.6	-22820.9	546328.5
	-9890.0	2207.6	152.2	-637.0	-18539.2	547415.1
	-9850.0	2139.8	439.3	-3474.7	-57135.3	537571.5
	-9854.4	2147.3	407.5	-3160.1	-52853.5	538658.1
	-9855.5	2149.0	400.0	-3090.5	-51852.7	538912.4
	-9859.9	2156.5	368.2	-2775.9	-47570.9	539999.0
	-9944.4	2299.4	-240.4	3249.6	34255.4	560719.4
	-9948.8	2306.9	-272.2	3564.1	38537.2	561806.0
	-9949.8	2308.6	-279.7	3633.8	39538.0	562060.3
	-9954.2	2316.1	-311.5	3948.3	43819.8	563146.9
	-9914.2	2248.3	-24.5	1110.7	5223.7	553303.3
	-9918.7	2255.8	-56.3	1425.2	9505.4	554389.9
	-9919.7	2257.6	-63.8	1494.9	10506.3	554644.2
	-9924.1	2265.0	-95.6	1809.4	14788.1	555730.9
Asta PROGR. 0.	181	nod	74	166		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-10813.9	2295.7	117.7	-1337.7	23256.2	-188477.9
	-10813.9	2295.5	86.5	-1025.1	17107.9	-188441.1
	-10813.9	2295.5	79.2	-957.2	15663.1	-188438.6
	-10813.9	2295.4	48.1	-644.6	9514.7	-188401.8
	-10813.9	2296.7	328.7	-3472.9	64957.1	-188729.9
	-10813.9	2296.6	297.6	-3160.3	58808.8	-188693.0
	-10814.0	2296.6	290.3	-3092.4	57364.0	-188690.6
	-10814.0	2296.4	259.2	-2779.8	51215.6	-188653.7
	-10813.1	2292.6	-335.9	3255.7	-66371.0	-187831.0
	-10813.1	2292.4	-367.1	3568.3	-72519.3	-187794.1
	-10813.1	2292.4	-374.4	3636.2	-73964.1	-187791.7
	-10813.1	2292.3	-405.5	3948.8	-80112.5	-187754.8
	-10813.1	2293.6	-124.9	1120.5	-24670.1	-188082.9
	-10813.1	2293.5	-156.0	1433.1	-30818.4	-188046.0
	-10813.2	2293.5	-163.3	1501.0	-32263.3	-188043.6
	-10813.2	2293.3	-194.4	1813.6	-38411.6	-188006.7
165.	-10295.5	2295.7	117.7	-1337.7	3843.6	190300.6
	-10295.5	2295.5	86.5	-1025.1	2829.4	190312.5
	-10295.6	2295.5	79.2	-957.2	2590.4	190316.5
	-10295.6	2295.4	48.1	-644.6	1576.2	190328.4
	-10295.6	2296.7	328.7	-3472.9	10722.6	190222.2
	-10295.6	2296.6	297.6	-3160.3	9708.4	190234.1
	-10295.6	2296.6	290.3	-3092.4	9469.4	190238.1
	-10295.6	2296.4	259.2	-2779.8	8455.2	190250.0
	-10294.7	2292.6	-335.9	3255.7	-10941.1	190453.8
	-10294.7	2292.4	-367.1	3568.3	-11955.3	190465.7
	-10294.8	2292.4	-374.4	3636.2	-12194.3	190469.7
	-10294.8	2292.3	-405.5	3948.8	-13208.5	190481.6
	-10294.8	2293.6	-124.9	1120.5	-4062.1	190375.4
	-10294.8	2293.5	-156.0	1433.1	-5076.3	190387.2
	-10294.8	2293.5	-163.3	1501.0	-5315.3	190391.3
	-10294.8	2293.3	-194.4	1813.6	-6329.4	190403.2
330.	-9777.2	2295.7	117.7	-1337.7	-15569.1	569102.1
	-9777.2	2295.5	86.5	-1025.1	-11449.1	569089.0
	-9777.2	2295.5	79.2	-957.2	-10482.3	569092.0
	-9777.2	2295.4	48.1	-644.6	-6362.3	569078.9
	-9777.2	2296.7	328.7	-3472.9	-43511.9	569197.2
	-9777.2	2296.6	297.6	-3160.3	-39392.0	569184.1
	-9777.2	2296.6	290.3	-3092.4	-38425.1	569187.1
	-9777.2	2296.4	259.2	-2779.8	-34305.2	569174.0
	-9776.4	2292.6	-335.9	3255.7	44488.8	568718.2
	-9776.4	2292.4	-367.1	3568.3	48608.7	568705.1
	-9776.4	2292.4	-374.4	3636.2	49575.6	568708.1
	-9776.4	2292.3	-405.5	3948.8	53695.5	568695.0
	-9776.4	2293.6	-124.9	1120.5	16545.9	568813.3
	-9776.4	2293.5	-156.0	1433.1	20665.9	568800.2
	-9776.4	2293.5	-163.3	1501.0	21632.7	568803.2
	-9776.4	2293.3	-194.4	1813.6	25752.7	568790.1
Asta PROGR. 0.	182	nod	75	167		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-10925.7	2419.4	-45.6	-1344.0	-9899.5	-226558.5
	-10921.7	2411.4	-77.1	-1031.2	-16061.8	-225067.0
	-10920.9	2409.7	-84.5	-964.7	-17509.4	-224749.2
	-10916.9	2401.6	-116.0	-651.8	-23671.7	-223257.7
	-10953.0	2474.7	168.0	-3478.4	31908.9	-236776.6
	-10949.0	2466.6	136.5	-3165.6	25746.6	-235285.0
	-10948.2	2464.9	129.1	-3099.1	24299.0	-234967.3
	-10944.2	2456.8	97.6	-2786.3	18136.7	-233475.7
	-10866.4	2299.2	-505.0	3265.1	-99825.8	-204335.6
	-10862.4	2291.1	-536.5	3578.0	-105988.1	-202844.0
	-10861.5	2289.4	-543.9	3644.4	-107435.7	-202526.3
	-10857.5	2281.3	-575.4	3957.3	-113598.0	-201034.7
	-10893.7	2354.4	-291.4	1130.7	-58017.4	-214553.6
	-10889.7	2346.3	-322.9	1443.5	-64179.7	-213062.1
	-10888.8	2344.6	-330.3	1510.0	-65627.3	-212744.3
	-10884.8	2336.6	-361.8	1822.8	-71789.6	-211252.8
165.	-10407.4	2419.4	-45.6	-1344.0	-2373.2	172647.0
	-10403.4	2411.4	-77.1	-1031.2	-3341.2	172808.7
	-10402.5	2409.7	-84.5	-964.7	-3569.5	172845.9

	-10398.5	2401.6	-116.0	-651.8	-4537.4	173007.7
	-10434.7	2474.7	168.0	-3478.4	4193.5	171542.1
	-10430.7	2466.6	136.5	-3165.6	3225.6	171703.9
	-10429.8	2464.9	129.1	-3099.1	2997.3	171741.1
	-10425.8	2456.8	97.6	-2786.3	2029.4	171902.8
	-10348.0	2299.2	-505.0	3265.1	-16497.4	175027.1
	-10344.0	2291.1	-536.5	3578.0	-17465.3	175188.8
	-10343.2	2289.4	-543.9	3644.4	-17693.6	175226.0
	-10339.2	2281.3	-575.4	3957.3	-18661.5	175387.7
	-10375.3	2354.4	-291.4	1130.7	-9930.6	173922.2
	-10371.3	2346.3	-322.9	1443.5	-10898.5	174083.9
	-10370.5	2344.6	-330.3	1510.0	-11126.8	174121.1
	-10366.5	2336.6	-361.8	1822.8	-12094.8	174282.9
330.	-9889.0	2419.4	-45.6	-1344.0	5153.0	571852.9
	-9885.0	2411.4	-77.1	-1031.2	9379.5	570684.8
	-9884.1	2409.7	-84.5	-964.7	10370.5	570441.4
	-9880.1	2401.6	-116.0	-651.8	14596.9	569273.3
	-9916.3	2474.7	168.0	-3478.4	-23521.8	579861.2
	-9912.3	2466.6	136.5	-3165.6	-19295.4	578693.1
	-9911.4	2464.9	129.1	-3099.1	-18304.4	578449.7
	-9907.4	2456.8	97.6	-2786.3	-14077.9	577281.6
	-9829.7	2299.2	-505.0	3265.1	66831.1	554389.5
	-9825.7	2291.1	-536.5	3578.0	71057.5	553221.4
	-9824.8	2289.4	-543.9	3644.4	72048.5	552978.0
	-9820.8	2281.3	-575.4	3957.3	76275.0	551809.9
	-9857.0	2354.4	-291.4	1130.7	38156.2	562397.8
	-9853.0	2346.3	-322.9	1443.5	42382.7	561229.7
	-9852.1	2344.6	-330.3	1510.0	43373.7	560986.3
	-9848.1	2336.6	-361.8	1822.8	47600.1	559818.2
Asta	183	nod	76	168		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4002.9	589.7	-248.9	-1333.0	-34703.9	-88326.8
	-4000.1	568.2	-273.1	-1021.1	-40000.7	-84536.3
	-3999.7	563.6	-278.7	-955.6	-41239.3	-83719.0
	-3997.0	542.2	-302.9	-643.7	-46536.2	-79928.4
	-4021.7	736.0	-84.8	-3451.9	1245.7	-114193.9
	-4019.0	714.5	-109.0	-3140.0	-4051.1	-110403.3
	-4018.6	709.9	-114.7	-3074.5	-5289.8	-109586.0
	-4015.8	688.5	-138.8	-2762.6	-10586.6	-105795.5
	-3961.2	272.9	-602.0	3228.4	-112067.4	-32313.7
	-3958.5	251.5	-626.2	3540.2	-117364.2	-28523.1
	-3958.1	246.9	-631.8	3605.8	-118602.8	-27705.9
	-3955.4	225.4	-656.0	3917.6	-123899.7	-23915.3
	-3980.1	419.2	-437.9	1109.4	-76117.8	-58180.7
	-3977.3	397.8	-462.1	1421.3	-81414.6	-54390.1
	-3976.9	393.2	-467.8	1486.8	-82653.3	-53572.9
	-3974.2	371.7	-491.9	1798.7	-87950.1	-49782.3
165.	-3484.5	589.7	-248.9	-1333.0	6369.5	8969.9
	-3481.8	568.2	-273.1	-1021.1	5061.6	9222.9
	-3481.4	563.6	-278.7	-955.6	4753.4	9275.5
	-3478.7	542.2	-302.9	-643.7	3445.5	9528.5
	-3503.3	736.0	-84.8	-3451.9	15246.0	7240.7
	-3500.6	714.5	-109.0	-3140.0	13938.1	7493.6
	-3500.2	709.9	-114.7	-3074.5	13629.9	7546.3
	-3497.5	688.5	-138.8	-2762.6	12322.0	7799.2
	-3442.9	272.9	-602.0	3228.4	-12733.1	12721.0
	-3440.2	251.5	-626.2	3540.2	-14040.9	12973.9
	-3439.7	246.9	-631.8	3605.8	-14349.1	13026.6
	-3437.0	225.4	-656.0	3917.6	-15657.0	13279.5
	-3461.7	419.2	-437.9	1109.4	-3856.6	10991.7
	-3459.0	397.8	-462.1	1421.3	-5164.5	11244.6
	-3458.6	393.2	-467.8	1486.8	-5472.6	11297.3
	-3455.9	371.7	-491.9	1798.7	-6780.5	11550.2
330.	-2966.1	589.7	-248.9	-1333.0	47442.8	106266.7
	-2963.4	568.2	-273.1	-1021.1	50123.9	102982.1
	-2963.0	563.6	-278.7	-955.6	50746.2	102270.1
	-2960.3	542.2	-302.9	-643.7	53427.2	98985.4
	-2985.0	736.0	-84.8	-3451.9	29246.2	128675.2
	-2982.2	714.5	-109.0	-3140.0	31927.3	125390.5
	-2981.8	709.9	-114.7	-3074.5	32549.6	124678.5
	-2979.1	688.5	-138.8	-2762.6	35230.6	121393.9
	-2924.5	272.9	-602.0	3228.4	86601.3	57755.6
	-2921.8	251.5	-626.2	3540.2	89282.3	54471.0
	-2921.4	246.9	-631.8	3605.8	89904.6	53759.0
	-2918.7	225.4	-656.0	3917.6	92585.7	50474.3
	-2943.3	419.2	-437.9	1109.4	68404.6	80164.1
	-2940.6	397.8	-462.1	1421.3	71085.7	76879.4
	-2940.2	393.2	-467.8	1486.8	71708.0	76167.4
	-2937.5	371.7	-491.9	1798.7	74389.1	72882.8
Asta	184	nod	79	169		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-6799.5	-586.0	-449.0	-1273.6	-68122.2	9100.2
	-6806.8	-624.0	-430.5	-974.5	-64082.9	16003.0
	-6808.7	-631.7	-427.4	-913.9	-63409.8	17403.5
	-6815.9	-669.6	-409.0	-614.8	-59370.5	24306.3
	-6750.0	-327.2	-574.1	-3303.3	-95526.9	-37978.5
	-6757.2	-365.2	-555.6	-3004.1	-91487.5	-31075.7
	-6759.1	-372.9	-552.5	-2943.6	-90814.5	-29675.1
	-6766.3	-410.8	-534.1	-2644.4	-86775.1	-22772.3

	-6907.3	-1145.8	-179.3	3096.6	-9037.8	110932.5
	-6914.5	-1183.7	-160.9	3395.7	-4998.4	117835.3
	-6916.4	-1191.4	-157.8	3456.3	-4325.4	119235.9
	-6923.6	-1229.4	-139.3	3755.5	-286.0	126138.7
	-6857.7	-887.0	-304.4	1066.9	-36442.4	63853.9
	-6864.9	-924.9	-285.9	1366.1	-32403.1	70756.7
	-6866.8	-932.7	-282.9	1426.7	-31730.0	72157.2
	-6874.0	-970.6	-264.4	1725.8	-27690.7	79060.0
165.	-6281.2	-586.0	-449.0	-1273.6	5959.4	-87593.9
	-6288.4	-624.0	-430.5	-974.5	6956.0	-86951.6
	-6290.3	-631.7	-427.4	-913.9	7118.9	-86822.6
	-6297.5	-669.6	-409.0	-614.8	8115.5	-86180.3
	-6231.6	-327.2	-574.1	-3303.3	-803.9	-91974.3
	-6238.8	-365.2	-555.6	-3004.1	192.7	-91332.0
	-6240.7	-372.9	-552.5	-2943.6	355.7	-91202.9
	-6247.9	-410.8	-534.1	-2644.4	1352.2	-90560.6
	-6388.9	-1145.8	-179.3	3096.6	20545.3	-78121.1
	-6396.1	-1183.7	-160.9	3395.7	21541.8	-77478.8
	-6398.0	-1191.4	-157.8	3456.3	21704.8	-77349.8
	-6405.2	-1229.4	-139.3	3755.5	22701.4	-76707.5
	-6339.3	-887.0	-304.4	1066.9	13782.0	-82501.4
	-6346.5	-924.9	-285.9	1366.1	14778.5	-81859.1
	-6348.4	-932.7	-282.9	1426.7	14941.5	-81730.1
	-6355.7	-970.6	-264.4	1725.8	15938.1	-81087.8
330.	-5762.8	-586.0	-449.0	-1273.6	80041.0	-184288.1
	-5770.0	-624.0	-430.5	-974.5	77994.8	-189906.3
	-5771.9	-631.7	-427.4	-913.9	77647.7	-191048.8
	-5779.1	-669.6	-409.0	-614.8	75601.5	-196666.9
	-5713.2	-327.2	-574.1	-3303.3	93919.1	-145970.1
	-5720.5	-365.2	-555.6	-3004.1	91872.9	-151588.3
	-5722.3	-372.9	-552.5	-2943.6	91525.8	-152730.7
	-5729.6	-410.8	-534.1	-2644.4	89479.6	-158348.9
	-5870.6	-1145.8	-179.3	3096.6	50128.3	-267174.8
	-5877.8	-1183.7	-160.9	3395.7	48082.1	-272792.9
	-5879.7	-1191.4	-157.8	3456.3	47735.0	-273935.4
	-5886.9	-1229.4	-139.3	3755.5	45688.8	-279553.6
	-5821.0	-887.0	-304.4	1066.9	64006.4	-228856.8
	-5828.2	-924.9	-285.9	1366.1	61960.2	-234474.9
	-5830.1	-932.7	-282.9	1426.7	61613.1	-235617.4
	-5837.3	-970.6	-264.4	1725.8	59566.9	-241235.6
Asta	188	nod1	123	183		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	2.8	857.7	2.4	-11150.6	374.1	-81041.5
	3.3	905.3	1.9	-11144.9	287.4	-81605.4
	10.7	916.6	1.5	-11120.3	248.4	-81896.4
	11.3	964.2	1.0	-11114.6	161.6	-82460.2
	17.1	535.2	5.4	-11176.8	927.0	-77399.8
	17.6	582.8	4.8	-11171.0	840.3	-77963.6
	25.1	594.1	4.4	-11146.5	801.3	-78254.6
	25.6	641.7	3.9	-11140.7	714.5	-78818.5
	-27.7	1550.7	-5.1	-11100.9	-889.9	-88520.3
	-27.2	1598.3	-5.7	-11095.2	-976.6	-89084.1
	-19.7	1609.6	-6.1	-11070.6	-1015.6	-89375.1
	-19.2	1657.2	-6.6	-11064.9	-1102.4	-89939.0
	-13.4	1228.2	-2.2	-11127.1	-337.0	-84878.5
	-12.8	1275.8	-2.7	-11121.3	-423.7	-85442.4
	-5.4	1287.1	-3.1	-11096.8	-462.7	-85733.4
	-4.9	1334.7	-3.6	-11091.0	-549.5	-86297.3
90.	2.8	350.2	2.4	-11150.6	166.4	-26569.1
	3.3	397.8	1.9	-11144.9	126.4	-22839.3
	10.7	409.2	1.5	-11120.3	120.9	-22098.1
	11.3	456.8	1.0	-11114.6	80.9	-18368.3
	17.1	27.7	5.4	-11176.8	450.5	-52023.2
	17.6	75.3	4.8	-11171.0	410.5	-48293.4
	25.1	86.7	4.4	-11146.5	405.0	-47552.3
	25.6	134.3	3.9	-11140.7	365.0	-43822.5
	-27.7	1043.2	-5.1	-11100.9	-430.6	28498.6
	-27.2	1090.8	-5.7	-11095.2	-470.5	32228.4
	-19.7	1102.2	-6.1	-11070.6	-476.1	32969.6
	-19.2	1149.8	-6.6	-11064.9	-516.0	36699.4
	-13.4	720.7	-2.2	-11127.1	-146.4	3044.5
	-12.8	768.3	-2.7	-11121.3	-186.4	6774.3
	-5.4	779.7	-3.1	-11096.8	-191.9	7515.4
	-4.9	827.2	-3.6	-11091.0	-231.9	11245.2
180.	2.8	-157.2	2.4	-11150.6	-108.8	-17860.8
	3.3	-109.6	1.9	-11144.9	-102.0	-9837.4
	10.7	-98.3	1.5	-11120.3	-64.7	-8074.8
	11.3	-50.7	1.0	-11114.6	-57.9	-51.4
	17.1	-479.7	5.4	-11176.8	-93.4	-72410.9
	17.6	-432.1	4.8	-11171.0	-86.6	-64387.5
	25.1	-420.8	4.4	-11146.5	-49.2	-62624.8
	25.6	-373.2	3.9	-11140.7	-42.5	-54601.4
	-27.7	535.8	-5.1	-11100.9	86.8	99725.5
	-27.2	583.4	-5.7	-11095.2	93.6	107749.0
	-19.7	594.7	-6.1	-11070.6	130.9	109511.6
	-19.2	642.3	-6.6	-11064.9	137.7	117535.0
	-13.4	213.3	-2.2	-11127.1	102.2	45175.5
	-12.8	260.8	-2.7	-11121.3	109.0	53198.9
	-5.4	272.2	-3.1	-11096.8	146.4	54961.5
	-4.9	319.8	-3.6	-11091.0	153.1	62985.0

Asta	189	nodi	124	123		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.1	205.4	2.9	-594.1	239.2	-1184.8
	0.0	229.4	2.2	-869.2	183.8	-3908.1
	0.8	234.9	2.1	-926.5	176.3	-4533.6
	0.9	259.0	1.5	-1201.6	120.9	-7256.9
	1.3	42.3	7.5	1278.5	624.6	17291.8
	1.4	66.3	6.9	1003.4	569.2	14568.5
	2.2	71.8	6.8	946.1	561.7	13943.1
	2.3	95.9	6.1	671.0	506.3	11219.8
	-2.7	556.2	-7.0	-4634.8	-582.2	-40935.3
	-2.6	580.3	-7.7	-4909.9	-637.5	-43658.6
	-1.9	585.8	-7.8	-4967.2	-645.1	-44284.0
	-1.7	609.8	-8.4	-5242.3	-700.5	-47007.4
	-1.4	393.1	-2.3	-2762.2	-196.8	-22458.6
	-1.2	417.2	-3.0	-3037.3	-252.1	-25182.0
	-0.5	422.7	-3.1	-3094.6	-259.7	-25807.4
85.	-0.4	446.7	-3.8	-3369.7	-315.1	-28530.7
	-0.1	-37.6	2.9	-594.1	-5.9	6142.1
	0.0	-13.5	2.2	-869.2	-4.8	5453.2
	0.8	-8.0	2.1	-926.5	-4.6	5295.3
	0.9	16.0	1.5	-1201.6	-3.5	4606.4
	1.3	-200.7	7.5	1278.5	-14.9	10816.6
	1.4	-176.6	6.9	1003.4	-13.8	10127.7
	2.2	-171.1	6.8	946.1	-13.6	9969.8
	2.3	-147.1	6.1	671.0	-12.5	9280.9
	-2.7	313.3	-7.0	-4634.8	11.3	-3915.9
	-2.6	337.3	-7.7	-4909.9	12.4	-4604.7
	-1.9	342.9	-7.8	-4967.2	12.5	-4762.6
	-1.7	366.9	-8.4	-5242.3	13.7	-5451.5
	-1.4	150.2	-2.3	-2762.2	2.3	758.6
	-1.2	174.2	-3.0	-3037.3	3.4	69.7
	-0.5	179.8	-3.1	-3094.6	3.5	-88.2
169.	-0.4	203.8	-3.8	-3369.7	4.7	-777.1
	-0.1	-312.8	2.9	-594.1	-247.4	-8454.6
	0.0	-288.7	2.2	-869.2	-189.8	-7109.1
	0.8	-283.2	2.1	-926.5	-183.7	-6799.5
	0.9	-259.2	1.5	-1201.6	-126.1	-5453.9
	1.3	-475.9	7.5	1278.5	-650.8	-17582.4
	1.4	-451.8	6.9	1003.4	-593.2	-16236.9
	2.2	-446.3	6.8	946.1	-587.1	-15927.2
	2.3	-422.3	6.1	671.0	-529.5	-14581.7
	-2.7	38.1	-7.0	-4634.8	603.0	11179.9
	-2.6	62.1	-7.7	-4909.9	660.6	12525.4
	-1.9	67.7	-7.8	-4967.2	666.6	12835.1
	-1.7	91.7	-8.4	-5242.3	724.2	14180.6
	-1.4	-125.0	-2.3	-2762.2	199.6	2052.1
	-1.2	-101.0	-3.0	-3037.3	257.2	3397.7
	-0.5	-95.4	-3.1	-3094.6	263.2	3707.3
	-0.4	-71.4	-3.8	-3369.7	320.8	5052.8
Asta	190	nodi	126	124		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.3	250.1	1.7	-13189.3	241.3	-13808.5
	-1.2	270.4	1.3	-13512.5	185.3	-16513.1
	-0.6	275.2	1.2	-13579.0	172.7	-17144.6
	-0.5	295.5	0.8	-13902.2	116.8	-19849.2
	-0.9	112.5	4.4	-10988.5	622.7	4529.4
	-0.7	132.8	4.0	-11311.8	566.7	1824.8
	-0.1	137.5	3.9	-11378.2	554.1	1193.3
	0.0	157.8	3.5	-11701.5	498.2	-1511.3
	-0.2	546.2	-4.1	-17937.9	-584.2	-53239.7
	-0.1	566.5	-4.5	-18261.2	-640.1	-55944.2
	0.5	571.2	-4.6	-18327.6	-652.7	-56575.8
	0.7	591.5	-5.0	-18650.9	-708.7	-59280.3
	0.3	408.5	-1.4	-15737.2	-202.8	-34901.8
	0.4	428.8	-1.8	-16060.5	-258.7	-37606.4
	1.0	433.5	-1.9	-16126.9	-271.3	-38237.9
130.	1.1	453.9	-2.3	-16450.2	-327.3	-40942.5
	-1.3	6.4	1.7	-13189.3	21.6	2866.0
	-1.2	26.7	1.3	-13512.5	16.6	2801.1
	-0.6	31.4	1.2	-13579.0	15.8	2785.8
	-0.5	51.7	0.8	-13902.2	10.9	2720.8
	-0.9	-131.3	4.4	-10988.5	56.8	3306.0
	-0.7	-111.0	4.0	-11311.8	51.8	3241.1
	-0.1	-106.2	3.9	-11378.2	51.0	3225.8
	0.0	-85.9	3.5	-11701.5	46.1	3160.9
	-0.2	302.4	-4.1	-17937.9	-54.0	1919.7
	-0.1	322.7	-4.5	-18261.2	-59.0	1854.8
	0.5	327.5	-4.6	-18327.6	-59.8	1839.5
	0.7	347.8	-5.0	-18650.9	-64.7	1774.6
	0.3	164.8	-1.4	-15737.2	-18.8	2359.8
	0.4	185.1	-1.8	-16060.5	-23.8	2294.9
	1.0	189.8	-1.9	-16126.9	-24.6	2279.5
260.	1.1	210.1	-2.3	-16450.2	-29.5	2214.6
	-1.3	-237.4	1.7	-13189.3	-198.1	-12147.0
	-1.2	-217.1	1.3	-13512.5	-152.0	-9572.3
	-0.6	-212.3	1.2	-13579.0	-141.1	-8971.4
	-0.5	-192.0	0.8	-13902.2	-95.0	-6396.6
	-0.9	-375.0	4.4	-10988.5	-509.1	-29604.8

	-0.7	-354.7	4.0	-11311.8	-463.0	-27030.1
	-0.1	-350.0	3.9	-11378.2	-452.1	-26429.2
	0.0	-329.7	3.5	-11701.5	-406.0	-23854.5
	-0.2	58.7	-4.1	-17937.9	476.1	25391.6
	-0.1	79.0	-4.5	-18261.2	522.2	27966.4
	0.5	83.7	-4.6	-18327.6	533.1	28567.3
	0.7	104.0	-5.0	-18650.9	579.2	31142.0
	0.3	-79.0	-1.4	-15737.2	165.1	7933.8
	0.4	-58.7	-1.8	-16060.5	211.2	10508.6
	1.0	-54.0	-1.9	-16126.9	222.1	11109.5
	1.1	-33.6	-2.3	-16450.2	268.2	13684.2
Asta	191	nod1	145	126		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.4	462.9	2.3	3396.9	570.5	-16209.5
	-0.3	474.4	1.8	3190.8	436.6	-18691.2
	-0.1	477.1	1.7	3148.8	408.8	-19263.9
	0.0	488.6	1.1	2942.8	275.0	-21745.6
	-0.3	384.9	6.0	4798.0	1479.6	623.3
	-0.2	396.4	5.5	4591.9	1345.8	-1858.4
	0.0	399.1	5.4	4549.9	1317.9	-2431.1
	0.1	410.6	4.8	4343.9	1184.1	-4912.8
	-0.8	630.7	-5.7	376.2	-1388.0	-52418.3
	-0.7	642.2	-6.2	170.1	-1521.8	-54900.0
	-0.5	644.8	-6.3	128.1	-1549.6	-55472.7
	-0.4	656.3	-6.9	-77.9	-1683.4	-57954.4
	-0.7	552.7	-2.0	1777.3	-478.8	-35585.4
	-0.6	564.2	-2.5	1571.2	-612.7	-38067.1
	-0.4	566.8	-2.6	1529.2	-640.5	-38639.8
	-0.3	578.3	-3.2	1323.2	-774.3	-41121.6
203.	-0.4	-76.4	2.3	3396.9	98.1	22989.5
	-0.3	-64.9	1.8	3190.8	75.1	22837.7
	-0.1	-62.3	1.7	3148.8	70.3	22803.8
	0.0	-50.8	1.1	2942.8	47.3	22652.0
	-0.3	-154.4	6.0	4798.0	254.2	24020.1
	-0.2	-142.9	5.5	4591.9	231.3	23868.3
	0.0	-140.3	5.4	4549.9	226.5	23834.3
	0.1	-128.8	4.8	4343.9	203.5	23682.5
	-0.8	91.3	-5.7	376.2	-238.2	20770.7
	-0.7	102.8	-6.2	170.1	-261.2	20618.9
	-0.5	105.4	-6.3	128.1	-266.0	20584.9
	-0.4	116.9	-6.9	-77.9	-289.0	20433.1
	-0.7	13.3	-2.0	1777.3	-82.1	21801.2
	-0.6	24.8	-2.5	1571.2	-105.1	21649.4
	-0.4	27.5	-2.6	1529.2	-109.8	21615.5
	-0.3	39.0	-3.2	1323.2	-132.8	21463.7
405.	-0.4	-618.3	2.3	3396.9	-374.3	-47355.4
	-0.3	-606.8	1.8	3190.8	-286.4	-45177.2
	-0.1	-604.1	1.7	3148.8	-268.1	-44672.5
	0.0	-592.6	1.1	2942.8	-180.3	-42494.3
	-0.3	-696.2	6.0	4798.0	-971.1	-62127.2
	-0.2	-684.7	5.5	4591.9	-883.2	-59949.0
	0.0	-682.1	5.4	4549.9	-865.0	-59444.2
	0.1	-670.6	4.8	4343.9	-777.1	-57266.1
	-0.8	-450.5	-5.7	376.2	911.5	-15584.3
	-0.7	-439.0	-6.2	170.1	999.3	-13406.2
	-0.5	-436.4	-6.3	128.1	1017.6	-12901.4
	-0.4	-424.9	-6.9	-77.9	1105.5	-10723.3
	-0.7	-528.5	-2.0	1777.3	314.7	-30356.1
	-0.6	-517.0	-2.5	1571.2	402.5	-28178.0
	-0.4	-514.3	-2.6	1529.2	420.8	-27673.2
	-0.3	-502.8	-3.2	1323.2	508.7	-25495.0
Asta	192	nod1	171	110		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	1.4	490.1	0.6	27522.4	84.6	96791.6
	1.9	492.1	0.4	27337.1	61.5	96520.5
	2.9	492.4	0.4	27291.5	48.7	96464.4
	3.4	494.4	0.2	27106.1	25.6	96193.3
	1.9	476.9	1.4	28780.8	218.9	98643.2
	2.3	478.9	1.3	28595.5	195.8	98372.1
	3.4	479.3	1.2	28549.9	183.0	98316.1
	3.8	481.2	1.1	28364.5	159.9	98044.9
	-5.2	518.7	-1.3	24813.4	-184.0	92778.7
	-4.7	520.6	-1.4	24628.1	-207.1	92507.5
	-3.7	521.0	-1.5	24582.5	-219.9	92451.5
	-3.2	523.0	-1.6	24397.1	-243.0	92180.4
	-4.7	505.5	-0.4	26071.8	-49.7	94630.3
	-4.3	507.5	-0.5	25886.5	-72.8	94359.2
	-3.2	507.9	-0.6	25840.8	-85.7	94303.1
	-2.8	509.8	-0.7	25655.5	-108.7	94032.0
261.	1.4	-588.0	0.6	27522.4	-61.3	84020.2
	1.9	-586.1	0.4	27337.1	-47.2	84252.6
	2.9	-585.7	0.4	27291.5	-45.1	84298.8
	3.4	-583.8	0.2	27106.1	-31.0	84531.2
	1.9	-601.2	1.4	28780.8	-159.2	82431.4
	2.3	-599.3	1.3	28595.5	-145.1	82663.9
	3.4	-598.9	1.2	28549.9	-143.0	82710.0
	3.8	-597.0	1.1	28364.5	-128.9	82942.5
	-5.2	-559.5	-1.3	24813.4	151.6	87465.7
	-4.7	-557.5	-1.4	24628.1	165.7	87698.1

	-3.7	-557.1	-1.5	24582.5	167.8	87744.3
	-3.2	-555.2	-1.6	24397.1	181.9	87976.7
	-4.7	-572.6	-0.4	26071.8	53.7	85876.9
	-4.3	-570.7	-0.5	25886.5	67.8	86109.4
	-3.2	-570.3	-0.6	25840.8	69.9	86155.6
	-2.8	-568.4	-0.7	25655.5	84.0	86388.0
522.	1.4	-1666.2	0.6	27522.4	-205.8	-210006.8
	1.9	-1664.3	0.4	27337.1	-154.5	-209270.8
	2.9	-1663.9	0.4	27291.5	-138.0	-209122.5
	3.4	-1662.0	0.2	27106.1	-86.7	-208386.4
	1.9	-1679.4	1.4	28780.8	-535.9	-215035.9
	2.3	-1677.5	1.3	28595.5	-484.6	-214299.9
	3.4	-1677.1	1.2	28549.9	-468.1	-214151.6
	3.8	-1675.1	1.1	28364.5	-416.8	-213415.5
	-5.2	-1637.6	-1.3	24813.4	486.3	-199102.8
	-4.7	-1635.7	-1.4	24628.1	537.6	-198366.8
	-3.7	-1635.3	-1.5	24582.5	554.2	-198218.5
	-3.2	-1633.4	-1.6	24397.1	605.5	-197482.4
	-4.7	-1650.8	-0.4	26071.8	156.2	-204131.9
	-4.3	-1648.9	-0.5	25886.5	207.5	-203395.9
	-3.2	-1648.5	-0.6	25840.8	224.1	-203247.6
	-2.8	-1646.6	-0.7	25655.5	275.4	-202511.5
Asta	193	nod1	172	144		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	0.0	2.0	0.0	0.0	0.0
	0.5	0.0	1.6	0.0	0.0	0.0
	1.4	0.0	1.4	0.0	0.0	0.0
	1.9	0.0	1.0	0.0	0.0	0.0
	0.5	0.0	5.2	0.0	0.0	0.0
	1.1	0.0	4.8	0.0	0.0	0.0
	2.0	0.0	4.6	0.0	0.0	0.0
	2.5	0.0	4.2	0.0	0.0	0.0
	-3.0	0.0	-4.9	0.0	0.0	0.0
	-2.5	0.0	-5.4	0.0	0.0	0.0
	-1.6	0.0	-5.5	0.0	0.0	0.0
	-1.1	0.0	-6.0	0.0	0.0	0.0
	-2.5	0.0	-1.7	0.0	0.0	0.0
	-1.9	0.0	-2.2	0.0	0.0	0.0
	-1.0	0.0	-2.3	0.0	0.0	0.0
	-0.5	0.0	-2.8	0.0	0.0	0.0
57.	0.0	-107.8	2.0	0.0	-116.6	-3098.3
	0.5	-107.8	1.6	0.0	-89.8	-3098.3
	1.4	-107.8	1.4	0.0	-81.6	-3098.3
	1.9	-107.8	1.0	0.0	-54.8	-3098.3
	0.5	-107.8	5.2	0.0	-301.7	-3098.3
	1.1	-107.8	4.8	0.0	-274.9	-3098.3
	2.0	-107.8	4.6	0.0	-266.7	-3098.3
	2.5	-107.8	4.2	0.0	-239.9	-3098.3
	-3.0	-107.8	-4.9	0.0	283.5	-3098.3
	-2.5	-107.8	-5.4	0.0	310.3	-3098.3
	-1.6	-107.8	-5.5	0.0	318.5	-3098.3
	-1.1	-107.8	-6.0	0.0	345.3	-3098.3
	-2.5	-107.8	-1.7	0.0	98.4	-3098.3
	-1.9	-107.8	-2.2	0.0	125.2	-3098.3
	-1.0	-107.8	-2.3	0.0	133.4	-3098.3
	-0.5	-107.8	-2.8	0.0	160.2	-3098.3
115.	0.0	-215.6	2.0	0.0	-233.2	-12393.2
	0.5	-215.6	1.6	0.0	-179.6	-12393.2
	1.4	-215.6	1.4	0.0	-163.2	-12393.2
	1.9	-215.6	1.0	0.0	-109.6	-12393.2
	0.5	-215.6	5.2	0.0	-603.4	-12393.2
	1.1	-215.6	4.8	0.0	-549.9	-12393.2
	2.0	-215.6	4.6	0.0	-533.4	-12393.2
	2.5	-215.6	4.2	0.0	-479.9	-12393.2
	-3.0	-215.6	-4.9	0.0	567.0	-12393.2
	-2.5	-215.6	-5.4	0.0	620.6	-12393.2
	-1.6	-215.6	-5.5	0.0	637.0	-12393.2
	-1.1	-215.6	-6.0	0.0	690.6	-12393.2
	-2.5	-215.6	-1.7	0.0	196.8	-12393.2
	-1.9	-215.6	-2.2	0.0	250.4	-12393.2
	-1.0	-215.6	-2.3	0.0	266.8	-12393.2
	-0.5	-215.6	-2.8	0.0	320.4	-12393.2
Asta	194	nod1	117	118		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.4	1402.1	2.2	16182.7	374.3	-79283.8
	0.9	1418.6	1.7	16432.3	286.3	-81900.9
	2.2	1421.7	1.6	16490.3	264.5	-82402.9
	2.8	1438.2	1.1	16739.9	176.5	-85020.1
	1.1	1289.5	5.8	14480.5	964.8	-61442.0
	1.6	1306.0	5.2	14730.1	876.8	-64059.2
	2.9	1309.1	5.1	14788.1	855.0	-64561.2
	3.5	1325.7	4.6	15037.7	767.0	-67178.3
	-5.2	1645.4	-5.3	19861.6	-893.6	-117855.7
	-4.7	1662.0	-5.9	20111.2	-981.7	-120472.9
	-3.3	1665.1	-6.0	20169.2	-1003.4	-120974.8
	-2.8	1681.6	-6.5	20418.8	-1091.5	-123592.0
	-4.5	1532.9	-1.8	18159.4	-303.1	-100014.0
	-4.0	1549.4	-2.3	18409.1	-391.1	-102631.2
	-2.6	1552.5	-2.5	18467.0	-412.9	-103133.1

147.	-2.1	1569.1	-3.0	18716.6	-500.9	-105750.3
	0.4	191.9	2.2	16182.7	44.9	40409.7
	0.9	208.5	1.7	16432.3	34.0	40216.5
	2.2	211.6	1.6	16490.3	32.7	40179.5
	2.8	228.1	1.1	16739.9	21.8	39986.2
	1.1	79.4	5.8	14480.5	117.6	41726.8
	1.6	95.9	5.2	14730.1	106.7	41533.6
	2.9	99.0	5.1	14788.1	105.4	41496.5
	3.5	115.5	4.6	15037.7	94.5	41303.3
	-5.2	435.3	-5.3	19861.6	-110.7	37562.4
	-4.7	451.8	-5.9	20111.2	-121.5	37369.1
	-3.3	455.0	-6.0	20169.2	-122.8	37332.1
	-2.8	471.5	-6.5	20418.8	-133.7	37138.9
	-4.5	322.7	-1.8	18159.4	-37.9	38879.4
	-4.0	339.3	-2.3	18409.1	-48.8	38686.2
	-2.6	342.4	-2.5	18467.0	-50.1	38649.2
	-2.1	358.9	-3.0	18716.6	-61.0	38456.0
294.	0.4	-1240.1	2.2	16182.7	-284.6	-33796.0
	0.9	-1223.5	1.7	16432.3	-218.3	-31565.3
	2.2	-1220.4	1.6	16490.3	-199.1	-31137.3
	2.8	-1203.9	1.1	16739.9	-132.8	-28906.6
	1.1	-1352.6	5.8	14480.5	-729.8	-49003.6
	1.6	-1336.1	5.2	14730.1	-663.4	-46772.9
	2.9	-1333.0	5.1	14788.1	-644.2	-46344.9
	3.5	-1316.4	4.6	15037.7	-577.9	-44114.2
	-5.2	-996.7	-5.3	19861.6	672.3	-918.7
	-4.7	-980.2	-5.9	20111.2	738.6	1312.0
	-3.3	-977.0	-6.0	20169.2	757.8	1739.9
	-2.8	-960.5	-6.5	20418.8	824.1	3970.6
	-4.5	-1109.2	-1.8	18159.4	227.1	-16126.3
	-4.0	-1092.7	-2.3	18409.1	293.5	-13895.6
	-2.6	-1089.6	-2.5	18467.0	312.7	-13467.7
	-2.1	-1073.1	-3.0	18716.6	379.0	-11237.0
Asta PROGR. 0.	195	nod	143	118		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-0.2	424.9	2.1	-10605.2	232.9	-33552.6
	0.4	412.5	1.6	-10929.1	179.1	-31917.9
	0.2	410.4	1.5	-11001.2	168.9	-31633.9
	0.7	398.1	1.0	-11325.1	115.1	-29999.2
	-0.3	508.9	5.4	-8400.0	603.4	-44705.6
	0.2	496.6	4.9	-8723.9	549.6	-43070.9
	0.0	494.5	4.8	-8796.0	539.3	-42786.8
	0.6	482.2	4.3	-9119.9	485.5	-41152.1
	-1.4	242.9	-5.1	-15363.7	-566.4	-9421.9
	-0.8	230.6	-5.6	-15687.6	-620.2	-7787.2
	-1.0	228.5	-5.7	-15759.7	-630.5	-7503.2
	-0.5	216.2	-6.2	-16083.6	-684.3	-5868.5
	-1.6	327.0	-1.8	-13158.5	-196.0	-20574.9
	-1.0	314.7	-2.2	-13482.4	-249.8	-18940.2
	-1.2	312.6	-2.3	-13554.5	-260.0	-18656.1
	-0.7	300.2	-2.8	-13878.4	-313.8	-17021.4
113.	-0.2	177.7	2.1	-10605.2	-2.6	250.2
	0.4	165.3	1.6	-10929.1	-1.9	493.3
	0.2	163.2	1.5	-11001.2	-1.3	539.6
	0.7	150.9	1.0	-11325.1	-0.5	782.7
	-0.3	261.7	5.4	-8400.0	-7.7	-1406.8
	0.2	249.4	4.9	-8723.9	-6.9	-1163.7
	0.0	247.3	4.8	-8796.0	-6.3	-1117.5
	0.6	235.0	4.3	-9119.9	-5.5	-874.4
	-1.4	-4.3	-5.1	-15363.7	8.4	3831.3
	-0.8	-16.6	-5.6	-15687.6	9.2	4074.4
	-1.0	-18.7	-5.7	-15759.7	9.8	4120.6
	-0.5	-31.0	-6.2	-16083.6	10.6	4363.7
	-1.6	79.8	-1.8	-13158.5	3.4	2174.2
	-1.0	67.5	-2.2	-13482.4	4.2	2417.3
	-1.2	65.4	-2.3	-13554.5	4.8	2463.5
	-0.7	53.0	-2.8	-13878.4	5.6	2706.6
226.	-0.2	-45.9	2.1	-10605.2	-238.1	7467.8
	0.4	-58.2	1.6	-10929.1	-182.8	6319.3
	0.2	-60.3	1.5	-11001.2	-171.5	6127.6
	0.7	-72.7	1.0	-11325.1	-116.1	4979.1
	-0.3	38.2	5.4	-8400.0	-618.6	15306.6
	0.2	25.8	4.9	-8723.9	-563.3	14158.1
	0.0	23.7	4.8	-8796.0	-551.9	13966.4
	0.6	11.4	4.3	-9119.9	-496.6	12817.9
	-1.4	-227.9	-5.1	-15363.7	583.4	-9500.8
	-0.8	-240.2	-5.6	-15687.6	638.7	-10649.3
	-1.0	-242.3	-5.7	-15759.7	650.0	-10841.0
	-0.5	-254.6	-6.2	-16083.6	705.4	-11989.5
	-1.6	-143.8	-1.8	-13158.5	202.9	-1662.0
	-1.0	-156.1	-2.2	-13482.4	258.2	-2810.5
	-1.2	-158.2	-2.3	-13554.5	269.5	-3002.2
	-0.7	-170.5	-2.8	-13878.4	324.9	-4150.7
Asta PROGR. 0.	196	nod	143	173		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-0.1	215.6	1.9	0.0	220.9	-12393.2
	0.5	215.6	1.5	0.0	168.7	-12393.2
	0.3	215.6	1.3	0.0	152.5	-12393.2
	1.0	215.6	0.9	0.0	100.2	-12393.2

	-0.3	215.6	5.0	0.0	572.7	-12393.2
	0.4	215.6	4.5	0.0	520.5	-12393.2
	0.1	215.6	4.4	0.0	504.3	-12393.2
	0.8	215.6	3.9	0.0	452.0	-12393.2
	-2.1	215.6	-4.7	0.0	-537.8	-12393.2
	-1.5	215.6	-5.1	0.0	-590.0	-12393.2
	-1.7	215.6	-5.3	0.0	-606.2	-12393.2
	-1.0	215.6	-5.7	0.0	-658.5	-12393.2
	-2.3	215.6	-1.6	0.0	-186.0	-12393.2
	-1.7	215.6	-2.1	0.0	-238.2	-12393.2
	-1.9	215.6	-2.2	0.0	-254.4	-12393.2
	-1.2	215.6	-2.7	0.0	-306.7	-12393.2
57.	-0.1	107.8	1.9	0.0	110.5	-3098.3
	0.5	107.8	1.5	0.0	84.3	-3098.3
	0.3	107.8	1.3	0.0	76.2	-3098.3
	1.0	107.8	0.9	0.0	50.1	-3098.3
	-0.3	107.8	5.0	0.0	286.4	-3098.3
	0.4	107.8	4.5	0.0	260.2	-3098.3
	0.1	107.8	4.4	0.0	252.1	-3098.3
	0.8	107.8	3.9	0.0	226.0	-3098.3
	-2.1	107.8	-4.7	0.0	-268.9	-3098.3
	-1.5	107.8	-5.1	0.0	-295.0	-3098.3
	-1.7	107.8	-5.3	0.0	-303.1	-3098.3
	-1.0	107.8	-5.7	0.0	-329.2	-3098.3
	-2.3	107.8	-1.6	0.0	-93.0	-3098.3
	-1.7	107.8	-2.1	0.0	-119.1	-3098.3
	-1.9	107.8	-2.2	0.0	-127.2	-3098.3
115.	-1.2	107.8	-2.7	0.0	-153.3	-3098.3
	-0.1	0.0	1.9	0.0	0.0	0.0
	0.5	0.0	1.5	0.0	0.0	0.0
	0.3	0.0	1.3	0.0	0.0	0.0
	1.0	0.0	0.9	0.0	0.0	0.0
	-0.3	0.0	5.0	0.0	0.0	0.0
	0.4	0.0	4.5	0.0	0.0	0.0
	0.1	0.0	4.4	0.0	0.0	0.0
	0.8	0.0	3.9	0.0	0.0	0.0
	-2.1	0.0	-4.7	0.0	0.0	0.0
	-1.5	0.0	-5.1	0.0	0.0	0.0
	-1.7	0.0	-5.3	0.0	0.0	0.0
	-1.0	0.0	-5.7	0.0	0.0	0.0
	-2.3	0.0	-1.6	0.0	0.0	0.0
	-1.7	0.0	-2.1	0.0	0.0	0.0
	-1.9	0.0	-2.2	0.0	0.0	0.0
	-1.2	0.0	-2.7	0.0	0.0	0.0
Asta	198	nod1	176	175		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2.4	0.0	-1.2	0.0	0.0	0.0
	-2.6	0.0	-0.9	0.0	0.0	0.0
	-0.4	0.0	-0.8	0.0	0.0	0.0
	-0.6	0.0	-0.4	0.0	0.0	0.0
	-2.0	0.0	-3.1	0.0	0.0	0.0
	-2.2	0.0	-2.7	0.0	0.0	0.0
	0.0	0.0	-2.6	0.0	0.0	0.0
	-0.2	0.0	-2.3	0.0	0.0	0.0
	-1.1	0.0	2.7	0.0	0.0	0.0
	-1.3	0.0	3.0	0.0	0.0	0.0
	0.9	0.0	3.1	0.0	0.0	0.0
	0.7	0.0	3.4	0.0	0.0	0.0
	-0.7	0.0	0.8	0.0	0.0	0.0
	-0.9	0.0	1.2	0.0	0.0	0.0
	1.3	0.0	1.3	0.0	0.0	0.0
	1.1	0.0	1.6	0.0	0.0	0.0
40.	-2.4	-74.9	-1.2	0.0	47.3	-1496.3
	-2.6	-74.9	-0.9	0.0	34.6	-1496.3
	-0.4	-74.9	-0.8	0.0	30.4	-1496.3
	-0.6	-74.9	-0.4	0.0	17.6	-1496.3
	-2.0	-74.9	-3.1	0.0	122.0	-1496.3
	-2.2	-74.9	-2.7	0.0	109.2	-1496.3
	0.0	-74.9	-2.6	0.0	105.0	-1496.3
	-0.2	-74.9	-2.3	0.0	92.3	-1496.3
	-1.1	-74.9	2.7	0.0	-107.8	-1496.3
	-1.3	-74.9	3.0	0.0	-120.6	-1496.3
	0.9	-74.9	3.1	0.0	-124.8	-1496.3
	0.7	-74.9	3.4	0.0	-137.5	-1496.3
	-0.7	-74.9	0.8	0.0	-33.2	-1496.3
	-0.9	-74.9	1.2	0.0	-45.9	-1496.3
	1.3	-74.9	1.3	0.0	-50.1	-1496.3
	1.1	-74.9	1.6	0.0	-62.9	-1496.3
80.	-2.4	-149.8	-1.2	0.0	94.7	-5985.0
	-2.6	-149.8	-0.9	0.0	69.1	-5985.0
	-0.4	-149.8	-0.8	0.0	60.8	-5985.0
	-0.6	-149.8	-0.4	0.0	35.2	-5985.0
	-2.0	-149.8	-3.1	0.0	244.0	-5985.0
	-2.2	-149.8	-2.7	0.0	218.4	-5985.0
	0.0	-149.8	-2.6	0.0	210.1	-5985.0
	-0.2	-149.8	-2.3	0.0	184.5	-5985.0
	-1.1	-149.8	2.7	0.0	-215.6	-5985.0
	-1.3	-149.8	3.0	0.0	-241.2	-5985.0
	0.9	-149.8	3.1	0.0	-249.5	-5985.0
	0.7	-149.8	3.4	0.0	-275.1	-5985.0

	-0.7	-149.8	0.8	0.0	-66.3	-5985.0
	-0.9	-149.8	1.2	0.0	-91.9	-5985.0
	1.3	-149.8	1.3	0.0	-100.2	-5985.0
	1.1	-149.8	1.6	0.0	-125.8	-5985.0
Asta	199	nod1	97	89		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	1.1	329.3	1.5	-10964.8	231.9	-18695.8
	1.1	329.5	1.2	-11162.5	178.3	-18735.5
	-0.3	329.8	1.1	-11204.0	162.2	-18785.5
	-0.3	330.0	0.7	-11401.7	108.6	-18825.3
	0.8	327.7	3.9	-9621.1	600.0	-18410.6
	0.8	327.9	3.6	-9818.8	546.4	-18450.3
	-0.6	328.2	3.5	-9860.3	530.3	-18500.3
	-0.6	328.4	3.1	-10058.0	476.7	-18540.0
	0.1	332.6	-3.6	-13836.4	-555.3	-19288.2
	0.1	332.8	-4.0	-14034.1	-609.0	-19328.0
	-1.3	333.1	-4.1	-14075.7	-625.0	-19378.0
	-1.3	333.3	-4.4	-14273.4	-678.7	-19417.7
	-0.2	331.0	-1.2	-12492.7	-187.3	-19003.0
	-0.2	331.2	-1.6	-12690.4	-240.9	-19042.7
	-1.6	331.5	-1.7	-12731.9	-257.0	-19092.7
	-1.6	331.7	-2.0	-12929.6	-310.6	-19132.5
170.	1.1	10.5	1.5	-10964.8	-24.5	10184.5
	1.1	10.7	1.2	-11162.5	-18.8	10182.6
	-0.3	11.0	1.1	-11204.0	-17.5	10183.0
	-0.3	11.3	0.7	-11401.7	-11.8	10181.1
	0.8	8.9	3.9	-9621.1	-63.3	10197.1
	0.8	9.1	3.6	-9818.8	-57.6	10195.1
	-0.6	9.4	3.5	-9860.3	-56.3	10195.6
	-0.6	9.6	3.1	-10058.0	-50.6	10193.6
	0.1	13.8	-3.6	-13836.4	58.9	10157.0
	0.1	14.1	-4.0	-14034.1	64.6	10155.1
	-1.3	14.4	-4.1	-14075.7	65.9	10155.5
	-1.3	14.6	-4.4	-14273.4	71.6	10153.6
	-0.2	12.2	-1.2	-12492.7	20.1	10169.5
	-0.2	12.4	-1.6	-12690.4	25.8	10167.6
	-1.6	12.8	-1.7	-12731.9	27.1	10168.0
	-1.6	13.0	-2.0	-12929.6	32.8	10166.1
340.	1.1	-308.2	1.5	-10964.8	-281.0	-15124.1
	1.1	-308.0	1.2	-11162.5	-216.0	-15088.2
	-0.3	-307.7	1.1	-11204.0	-197.3	-15034.7
	-0.3	-307.5	0.7	-11401.7	-132.3	-14998.8
	0.8	-309.8	3.9	-9621.1	-726.7	-15384.3
	0.8	-309.6	3.6	-9818.8	-661.6	-15348.4
	-0.6	-309.3	3.5	-9860.3	-642.9	-15294.9
	-0.6	-309.1	3.1	-10058.0	-577.9	-15259.0
	0.1	-304.9	-3.6	-13836.4	673.1	-14586.5
	0.1	-304.7	-4.0	-14034.1	738.1	-14550.6
	-1.3	-304.4	-4.1	-14075.7	756.8	-14497.1
	-1.3	-304.2	-4.4	-14273.4	821.8	-14461.2
	-0.2	-306.5	-1.2	-12492.7	227.4	-14846.7
	-0.2	-306.3	-1.6	-12690.4	292.4	-14810.8
	-1.6	-306.0	-1.7	-12731.9	311.1	-14757.3
	-1.6	-305.8	-2.0	-12929.6	376.2	-14721.4
Asta	200	nod1	98	97		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	3.3	327.1	1.0	1021.0	184.8	-19039.0
	3.9	327.0	0.8	1004.5	139.9	-19017.0
	-8.9	327.2	0.7	1001.1	132.2	-19065.6
	-8.3	327.1	0.5	984.6	87.3	-19043.6
	2.9	327.8	2.8	1132.9	497.9	-19175.3
	3.5	327.7	2.6	1116.4	453.1	-19153.4
	-9.3	327.9	2.5	1113.0	445.3	-19201.9
	-8.7	327.8	2.3	1096.5	400.5	-19179.9
	11.0	325.5	-2.7	781.1	-473.6	-18731.7
	11.6	325.4	-3.0	764.6	-518.4	-18709.7
	-1.2	325.7	-3.0	761.2	-526.2	-18758.3
	-0.6	325.6	-3.3	744.7	-571.0	-18736.3
	10.6	326.2	-0.9	893.0	-160.5	-18868.0
	11.2	326.1	-1.2	876.5	-205.3	-18846.0
	-1.7	326.4	-1.2	873.1	-213.1	-18894.6
	-1.0	326.3	-1.5	856.6	-257.9	-18872.6
173.	3.3	3.6	1.0	1021.0	4.6	9484.4
	3.9	3.5	0.8	1004.5	3.8	9487.1
	-8.9	3.8	0.7	1001.1	3.9	9488.8
	-8.3	3.7	0.5	984.6	3.1	9491.5
	2.9	4.3	2.8	1132.9	8.9	9466.0
	3.5	4.2	2.6	1116.4	8.1	9468.6
	-9.3	4.5	2.5	1113.0	8.2	9470.4
	-8.7	4.4	2.3	1096.5	7.4	9473.0
	11.0	2.1	-2.7	781.1	-8.6	9523.7
	11.6	2.0	-3.0	764.6	-9.4	9526.4
	-1.2	2.3	-3.0	761.2	-9.3	9528.1
	-0.6	2.1	-3.3	744.7	-10.1	9530.8
	10.6	2.8	-0.9	893.0	-4.3	9505.2
	11.2	2.7	-1.2	876.5	-5.1	9507.9
	-1.7	2.9	-1.2	873.1	-4.9	9509.6
	-1.0	2.8	-1.5	856.6	-5.8	9512.3
345.	3.3	-319.8	1.0	1021.0	-177.0	-17782.7

	3.9	-319.9	0.8	1004.5	-133.9	-17799.4
	-8.9	-319.6	0.7	1001.1	-125.3	-17751.8
	-8.3	-319.7	0.5	984.6	-82.1	-17768.4
	2.9	-319.1	2.8	1132.9	-481.6	-17683.3
	3.5	-319.2	2.6	1116.4	-438.4	-17700.0
	-9.3	-318.9	2.5	1113.0	-429.8	-17652.4
	-8.7	-319.1	2.3	1096.5	-386.6	-17669.0
	11.0	-321.4	-2.7	781.1	457.4	-18011.9
	11.6	-321.5	-3.0	764.6	500.5	-18028.5
	-1.2	-321.2	-3.0	761.2	509.2	-17980.9
	-0.6	-321.3	-3.3	744.7	552.3	-17997.5
	10.6	-320.7	-0.9	893.0	152.9	-17912.5
	11.2	-320.8	-1.2	876.5	196.0	-17929.1
	-1.7	-320.5	-1.2	873.1	204.7	-17881.5
	-1.0	-320.6	-1.5	856.6	247.8	-17898.1
Asta	201	nod	101	98		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	3.5	229.6	1.2	-11168.3	199.7	-4881.7
	4.3	229.4	0.9	-11188.4	152.4	-4865.4
	-9.5	229.7	0.9	-11192.6	147.5	-4903.8
	-8.7	229.6	0.6	-11212.7	100.1	-4887.5
	3.1	230.4	3.3	-11031.5	534.8	-4982.9
	3.9	230.2	3.0	-11051.6	487.4	-4966.7
	-9.9	230.5	3.0	-11055.8	482.6	-5005.0
	-9.1	230.4	2.7	-11075.9	435.2	-4988.7
	11.1	227.7	-3.1	-11461.1	-506.6	-4650.9
	11.9	227.6	-3.4	-11481.2	-554.0	-4634.6
	-1.8	227.8	-3.5	-11485.4	-558.9	-4672.9
	-1.1	227.7	-3.8	-11505.5	-606.2	-4656.7
	10.7	228.5	-1.0	-11324.3	-171.5	-4752.1
	11.5	228.4	-1.3	-11344.4	-218.9	-4735.8
	-2.2	228.7	-1.4	-11348.6	-223.8	-4774.2
	-1.5	228.5	-1.7	-11368.7	-271.1	-4757.9
162.	3.5	-73.5	1.2	-11168.3	5.7	7730.6
	4.3	-73.7	0.9	-11188.4	6.0	7725.8
	-9.5	-73.4	0.9	-11192.6	9.4	7726.0
	-8.7	-73.5	0.6	-11212.7	9.6	7721.2
	3.1	-72.7	3.3	-11031.5	1.9	7762.8
	3.9	-72.8	3.0	-11051.6	2.2	7757.9
	-9.9	-72.6	3.0	-11055.8	5.5	7758.2
	-9.1	-72.7	2.7	-11075.9	5.8	7753.3
	11.1	-75.4	-3.1	-11461.1	-6.3	7661.2
	11.9	-75.5	-3.4	-11481.2	-6.0	7656.3
	-1.8	-75.3	-3.5	-11485.4	-2.7	7656.6
	-1.1	-75.4	-3.8	-11505.5	-2.4	7651.7
	10.7	-74.6	-1.0	-11324.3	-10.2	7693.3
	11.5	-74.7	-1.3	-11344.4	-9.9	7688.5
	-2.2	-74.4	-1.4	-11348.6	-6.6	7688.8
	-1.5	-74.6	-1.7	-11368.7	-6.3	7683.9
323.	3.5	-376.6	1.2	-11168.3	-200.5	-28657.8
	4.3	-376.8	0.9	-11188.4	-152.6	-28683.8
	-9.5	-376.5	0.9	-11192.6	-142.7	-28633.9
	-8.7	-376.6	0.6	-11212.7	-94.7	-28659.9
	3.1	-375.8	3.3	-11031.5	-543.3	-28492.3
	3.9	-375.9	3.0	-11051.6	-495.4	-28518.3
	-9.9	-375.7	3.0	-11055.8	-485.5	-28468.4
	-9.1	-375.8	2.7	-11075.9	-437.6	-28494.3
	11.1	-378.5	-3.1	-11461.1	507.9	-29027.3
	11.9	-378.6	-3.4	-11481.2	555.8	-29053.2
	-1.8	-378.4	-3.5	-11485.4	565.7	-29003.3
	-1.1	-378.5	-3.8	-11505.5	613.7	-29029.3
	10.7	-377.7	-1.0	-11324.3	165.1	-28861.7
	11.5	-377.8	-1.3	-11344.4	213.0	-28887.7
	-2.2	-377.5	-1.4	-11348.6	222.9	-28837.8
	-1.5	-377.7	-1.7	-11368.7	270.8	-28863.8
Asta	202	nod	104	101		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	4.8	262.9	1.1	-394.3	170.1	-9811.1
	6.3	262.8	0.8	-416.2	121.5	-9787.0
	-25.5	262.8	0.7	-421.4	109.9	-9790.2
	-24.0	262.7	0.4	-443.3	61.4	-9766.1
	4.1	263.9	3.3	-244.0	530.9	-9972.6
	5.6	263.8	3.0	-266.0	482.4	-9948.5
	-26.2	263.8	2.9	-271.1	470.8	-9951.8
	-24.7	263.7	2.6	-293.1	422.2	-9927.6
	28.0	260.8	-3.0	-713.5	-489.2	-9460.8
	29.5	260.7	-3.3	-735.5	-537.8	-9436.6
	-2.3	260.7	-3.4	-740.6	-549.4	-9439.9
	-0.8	260.5	-3.7	-762.6	-597.9	-9415.8
	27.3	261.8	-0.8	-563.3	-128.4	-9622.3
	28.8	261.6	-1.1	-585.3	-176.9	-9598.2
	-3.0	261.7	-1.2	-590.4	-188.5	-9601.4
	-1.5	261.5	-1.5	-612.4	-237.1	-9577.3
162.	4.8	-40.2	1.1	-394.3	-12.7	8192.0
	6.3	-40.4	0.8	-416.2	-13.4	8192.3
	-25.5	-40.4	0.7	-421.4	-8.4	8196.5
	-24.0	-40.5	0.4	-443.3	-9.1	8196.7
	4.1	-39.3	3.3	-244.0	-10.5	8189.3
	5.6	-39.4	3.0	-266.0	-11.1	8189.5

	-26.2	-39.4	2.9	-271.1	-6.2	8193.7
	-24.7	-39.5	2.6	-293.1	-6.9	8193.9
	28.0	-42.4	-3.0	-713.5	8.1	8197.1
	29.5	-42.5	-3.3	-735.5	7.4	8197.3
	-2.3	-42.5	-3.4	-740.6	12.4	8201.5
	-0.8	-42.7	-3.7	-762.6	11.7	8201.8
	27.3	-41.4	-0.8	-563.3	10.3	8194.3
	28.8	-41.6	-1.1	-585.3	9.6	8194.6
	-3.0	-41.5	-1.2	-590.4	14.6	8198.8
	-1.5	-41.7	-1.5	-612.4	13.9	8199.0
323.	4.8	-343.4	1.1	-394.3	-172.9	-22825.6
	6.3	-343.6	0.8	-416.2	-125.8	-22849.2
	-25.5	-343.6	0.7	-421.4	-106.5	-22843.9
	-24.0	-343.7	0.4	-443.3	-59.3	-22867.6
	4.1	-342.4	3.3	-244.0	-529.3	-22669.6
	5.6	-342.6	3.0	-266.0	-482.1	-22693.2
	-26.2	-342.6	2.9	-271.1	-462.9	-22688.0
	-24.7	-342.7	2.6	-293.1	-415.7	-22711.6
	28.0	-345.6	-3.0	-713.5	485.2	-23168.8
	29.5	-345.7	-3.3	-735.5	532.4	-23192.4
	-2.3	-345.7	-3.4	-740.6	551.6	-23187.1
	-0.8	-345.8	-3.7	-762.6	598.8	-23210.8
	27.3	-344.6	-0.8	-563.3	128.8	-23012.8
	28.8	-344.7	-1.1	-585.3	176.0	-23036.4
	-3.0	-344.7	-1.2	-590.4	195.2	-23031.2
	-1.5	-344.9	-1.5	-612.4	242.4	-23054.8
Asta	203	nod	106	104		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	6.4	272.2	1.6	-153.9	254.2	-10720.2
	7.2	272.0	1.4	-176.5	213.1	-10687.6
	44.4	272.0	1.4	-181.1	220.4	-10694.7
	45.2	271.8	1.2	-203.7	179.3	-10662.1
	8.3	273.6	3.6	0.6	569.5	-10945.6
	9.1	273.4	3.3	-22.0	528.4	-10913.0
	46.3	273.4	3.4	-26.6	535.7	-10920.1
	47.0	273.2	3.1	-49.2	494.6	-10887.5
	-58.6	269.1	-3.7	-490.2	-593.7	-10213.4
	-57.8	268.9	-4.0	-512.8	-634.8	-10180.8
	-20.7	269.0	-3.9	-517.5	-627.5	-10187.9
	-19.9	268.8	-4.2	-540.1	-668.6	-10155.3
	-56.8	270.5	-1.8	-335.8	-278.5	-10438.7
	-56.0	270.3	-2.0	-358.4	-319.5	-10406.1
	-18.8	270.4	-2.0	-363.0	-312.3	-10413.3
	-18.0	270.2	-2.2	-385.6	-353.3	-10380.7
162.	6.4	-30.9	1.6	-153.9	-11.7	8783.9
	7.2	-31.1	1.4	-176.5	-12.0	8784.4
	44.4	-31.1	1.4	-181.1	-16.1	8779.2
	45.2	-31.3	1.2	-203.7	-16.4	8779.7
	8.3	-29.5	3.6	0.6	-9.1	8779.7
	9.1	-29.7	3.3	-22.0	-9.4	8780.2
	46.3	-29.7	3.4	-26.6	-13.6	8775.0
	47.0	-29.9	3.1	-49.2	-13.8	8775.5
	-58.6	-33.9	-3.7	-490.2	15.8	8799.5
	-57.8	-34.1	-4.0	-512.8	15.5	8800.0
	-20.7	-34.1	-3.9	-517.5	11.3	8794.8
	-19.9	-34.3	-4.2	-540.1	11.0	8795.3
	-56.8	-32.6	-1.8	-335.8	18.3	8795.3
	-56.0	-32.8	-2.0	-358.4	18.1	8795.8
	-18.8	-32.7	-2.0	-363.0	13.9	8790.6
	-18.0	-32.9	-2.2	-385.6	13.6	8791.1
323.	6.4	-334.0	1.6	-153.9	-270.3	-20708.9
	7.2	-334.2	1.4	-176.5	-229.8	-20740.6
	44.4	-334.2	1.4	-181.1	-239.3	-20737.1
	45.2	-334.4	1.2	-203.7	-198.8	-20768.8
	8.3	-332.6	3.6	0.6	-580.4	-20492.0
	9.1	-332.8	3.3	-22.0	-539.9	-20523.7
	46.3	-332.8	3.4	-26.6	-549.5	-20520.2
	47.0	-333.0	3.1	-49.2	-509.0	-20551.9
	-58.6	-337.0	-3.7	-490.2	612.0	-21187.5
	-57.8	-337.2	-4.0	-512.8	652.5	-21219.2
	-20.7	-337.2	-3.9	-517.5	642.9	-21215.7
	-19.9	-337.4	-4.2	-540.1	683.4	-21247.4
	-56.8	-335.7	-1.8	-335.8	301.8	-20970.6
	-56.0	-335.9	-2.0	-358.4	342.3	-21002.2
	-18.8	-335.8	-2.0	-363.0	332.8	-20998.8
	-18.0	-336.0	-2.2	-385.6	373.3	-21030.4
Asta	204	nod	107	106		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4.5	347.0	1.3	3391.5	211.7	-28182.0
	-4.3	347.0	1.0	3372.3	169.8	-28178.1
	22.3	347.3	1.0	3368.5	168.9	-28226.6
	22.4	347.2	0.8	3349.3	127.1	-28222.7
	-1.7	347.3	3.3	3522.7	525.3	-28215.0
	-1.5	347.3	3.0	3503.5	483.5	-28211.1
	25.1	347.6	3.0	3499.7	482.6	-28259.6
	25.2	347.5	2.7	3480.5	440.8	-28255.7
	-30.5	346.1	-3.2	3107.5	-521.6	-28066.7
	-30.4	346.1	-3.5	3088.3	-563.5	-28062.9
	-3.7	346.4	-3.5	3084.5	-564.4	-28111.3

	-3.6	346.3	-3.8	3065.3	-606.2	-28107.5
	-27.7	346.4	-1.3	3238.7	-208.0	-28099.7
	-27.6	346.4	-1.5	3219.5	-249.8	-28095.9
	-0.9	346.7	-1.5	3215.7	-250.7	-28144.3
	-0.8	346.6	-1.8	3196.5	-292.6	-28140.5
162.	-4.5	43.9	1.3	3391.5	-1.5	3419.0
	-4.3	43.9	1.0	3372.3	-0.8	3416.4
	22.3	44.2	1.0	3368.5	-2.1	3412.8
	22.4	44.1	0.8	3349.3	-1.4	3410.2
	-1.7	44.2	3.3	3522.7	-5.4	3436.2
	-1.5	44.2	3.0	3503.5	-4.8	3433.5
	25.1	44.5	3.0	3499.7	-6.0	3430.0
	25.2	44.4	2.7	3480.5	-5.4	3427.4
	-30.5	43.0	-3.2	3107.5	6.2	3383.4
	-30.4	43.0	-3.5	3088.3	6.8	3380.8
	-3.7	43.3	-3.5	3084.5	5.6	3377.3
	-3.6	43.2	-3.8	3065.3	6.2	3374.7
	-27.7	43.3	-1.3	3238.7	2.2	3400.6
	-27.6	43.3	-1.5	3219.5	2.8	3398.0
	-0.9	43.6	-1.5	3215.7	1.6	3394.4
	-0.8	43.5	-1.8	3196.5	2.2	3391.8
323.	-4.5	-259.2	1.3	3391.5	-210.7	-13978.7
	-4.3	-259.2	1.0	3372.3	-167.7	-13987.8
	22.3	-258.9	1.0	3368.5	-167.8	-13945.2
	22.4	-259.0	0.8	3349.3	-124.7	-13954.3
	-1.7	-258.9	3.3	3522.7	-532.3	-13911.5
	-1.5	-258.9	3.0	3503.5	-489.3	-13920.5
	25.1	-258.6	3.0	3499.7	-489.4	-13877.9
	25.2	-258.7	2.7	3480.5	-446.4	-13887.0
	-30.5	-260.1	-3.2	3107.5	528.8	-14159.2
	-30.4	-260.1	-3.5	3088.3	571.8	-14168.2
	-3.7	-259.8	-3.5	3084.5	571.7	-14125.7
	-3.6	-259.9	-3.8	3065.3	614.7	-14134.7
	-27.7	-259.8	-1.3	3238.7	207.1	-14091.9
	-27.6	-259.8	-1.5	3219.5	250.2	-14101.0
	-0.9	-259.5	-1.5	3215.7	250.1	-14058.4
	-0.8	-259.6	-1.8	3196.5	293.1	-14067.4
Asta	205	nod1	177	107		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-7.8	1358.4	1.6	-8821.1	271.8	-81481.7
	-7.7	1358.4	1.2	-8903.0	212.4	-81467.6
	13.2	1358.7	1.2	-8920.5	202.2	-81529.3
	13.2	1358.8	0.8	-9002.3	142.8	-81515.2
	-5.2	1358.2	4.0	-8262.5	700.3	-81583.9
	-5.2	1358.3	3.7	-8344.4	640.9	-81569.9
	15.7	1358.6	3.6	-8361.8	630.6	-81631.5
	15.7	1358.7	3.3	-8443.7	571.2	-81617.5
	-21.2	1358.0	-3.9	-10029.2	-681.7	-81225.2
	-21.2	1358.1	-4.3	-10111.1	-741.1	-81211.2
	-0.3	1358.4	-4.3	-10128.5	-751.4	-81272.8
	-0.3	1358.5	-4.7	-10210.4	-810.8	-81258.8
	-18.7	1357.9	-1.5	-9470.6	-253.3	-81327.5
	-18.7	1358.0	-1.8	-9552.5	-312.7	-81313.4
	2.2	1358.3	-1.9	-9569.9	-322.9	-81375.1
	2.2	1358.3	-2.2	-9651.8	-382.3	-81361.0
162.	-7.8	120.6	1.6	-8821.1	20.5	38198.6
	-7.7	120.6	1.2	-8903.0	16.2	38216.5
	13.2	121.0	1.2	-8920.5	13.5	38219.3
	13.2	121.0	0.8	-9002.3	9.3	38237.2
	-5.2	120.4	4.0	-8262.5	51.0	38077.1
	-5.2	120.5	3.7	-8344.4	46.7	38094.9
	15.7	120.8	3.6	-8361.8	44.0	38097.7
	15.7	120.9	3.3	-8443.7	39.8	38115.6
	-21.2	120.3	-3.9	-10029.2	-47.1	38460.7
	-21.2	120.3	-4.3	-10111.1	-51.4	38478.5
	-0.3	120.6	-4.3	-10128.5	-54.1	38481.3
	-0.3	120.7	-4.7	-10210.4	-58.3	38499.2
	-18.7	120.1	-1.5	-9470.6	-16.7	38339.1
	-18.7	120.2	-1.8	-9552.5	-20.9	38357.0
	2.2	120.5	-1.9	-9569.9	-23.6	38359.7
	2.2	120.5	-2.2	-9651.8	-27.9	38377.6
323.	-7.8	-1126.6	1.6	-8821.1	-231.1	-43051.8
	-7.7	-1126.5	1.2	-8903.0	-180.1	-43030.1
	13.2	-1126.2	1.2	-8920.5	-174.9	-42972.7
	13.2	-1126.2	0.8	-9002.3	-124.0	-42951.0
	-5.2	-1126.7	4.0	-8262.5	-598.6	-43192.7
	-5.2	-1126.7	3.7	-8344.4	-547.6	-43171.0
	15.7	-1126.3	3.6	-8361.8	-542.4	-43113.6
	15.7	-1126.3	3.3	-8443.7	-491.5	-43091.9
	-21.2	-1126.9	-3.9	-10029.2	587.3	-42774.7
	-21.2	-1126.9	-4.3	-10111.1	638.2	-42753.0
	-0.3	-1126.5	-4.3	-10128.5	643.4	-42695.6
	-0.3	-1126.5	-4.7	-10210.4	694.3	-42674.0
	-18.7	-1127.0	-1.5	-9470.6	219.8	-42915.6
	-18.7	-1127.0	-1.8	-9552.5	270.7	-42894.0
	2.2	-1126.6	-1.9	-9569.9	275.9	-42836.6
	2.2	-1126.6	-2.2	-9651.8	326.8	-42814.9
Asta	206	nod1	115	177		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ

0.	-5.4	1233.0	2.0	36264.6	330.2	-63013.9
	-5.5	1233.0	1.6	36130.1	254.8	-63038.3
	5.9	1233.5	1.5	36103.1	244.1	-63122.1
	5.8	1233.6	1.0	35968.6	168.7	-63146.5
	-4.0	1232.7	5.2	37181.5	854.4	-62858.3
	-4.2	1232.8	4.7	37047.0	779.0	-62882.7
	7.3	1233.2	4.7	37020.0	768.3	-62966.6
	7.1	1233.3	4.2	36885.5	692.9	-62990.9
	-8.8	1233.5	-4.9	34283.0	-809.0	-63316.1
	-8.9	1233.5	-5.4	34148.5	-884.4	-63340.5
	2.5	1234.0	-5.4	34121.5	-895.1	-63424.3
	2.4	1234.1	-5.9	33987.0	-970.5	-63448.7
	-7.4	1233.2	-1.7	35199.9	-284.8	-63160.5
	-7.6	1233.3	-2.2	35065.4	-360.2	-63184.9
	3.9	1233.7	-2.2	35038.4	-370.9	-63268.8
	3.7	1233.8	-2.7	34903.9	-446.3	-63293.1
162.	-5.4	9.1	2.0	36264.6	5.5	37501.2
	-5.5	9.1	1.6	36130.1	4.1	37484.5
	5.9	9.6	1.5	36103.1	3.1	37475.8
	5.8	9.7	1.0	35968.6	1.8	37459.1
	-4.0	8.8	5.2	37181.5	14.8	37613.5
	-4.2	8.9	4.7	37047.0	13.4	37596.8
	7.3	9.3	4.7	37020.0	12.5	37588.1
	7.1	9.4	4.2	36885.5	11.1	37571.5
	-8.8	9.6	-4.9	34283.0	-15.1	37261.8
	-8.9	9.6	-5.4	34148.5	-16.5	37245.1
	2.5	10.1	-5.4	34121.5	-17.4	37236.4
	2.4	10.2	-5.9	33987.0	-18.8	37219.7
	-7.4	9.3	-1.7	35199.9	-5.8	37374.1
	-7.6	9.4	-2.2	35065.4	-7.1	37357.4
	3.9	9.9	-2.2	35038.4	-8.1	37348.7
	3.7	9.9	-2.7	34903.9	-9.5	37332.0
323.	-5.4	-1223.3	2.0	36264.6	-319.4	-60507.0
	-5.5	-1223.2	1.6	36130.1	-246.7	-60515.9
	5.9	-1222.8	1.5	36103.1	-237.7	-60443.9
	5.8	-1222.7	1.0	35968.6	-165.1	-60452.8
	-4.0	-1223.6	5.2	37181.5	-824.9	-60437.9
	-4.2	-1223.5	4.7	37047.0	-752.3	-60446.9
	7.3	-1223.0	4.7	37020.0	-743.3	-60374.8
	7.1	-1223.0	4.2	36885.5	-670.6	-60383.8
	-8.8	-1222.8	-4.9	34283.0	778.7	-60699.1
	-8.9	-1222.7	-5.4	34148.5	851.4	-60708.0
	2.5	-1222.3	-5.4	34121.5	860.3	-60636.0
	2.4	-1222.2	-5.9	33987.0	933.0	-60644.9
	-7.4	-1223.1	-1.7	35199.9	273.2	-60630.0
	-7.6	-1223.0	-2.2	35065.4	345.8	-60639.0
	3.9	-1222.5	-2.2	35038.4	354.8	-60566.9
	3.7	-1222.5	-2.7	34903.9	427.5	-60575.9
Asta	207	nod	178	171		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4.0	839.4	-2.1	120007.4	-126.6	146364.3
	-3.6	842.8	-1.5	119907.3	-91.8	146267.4
	6.6	843.6	-1.3	119887.0	-71.7	146240.7
	7.0	847.0	-0.7	119786.9	-36.9	146143.9
	-2.0	816.8	-5.6	120691.5	-331.7	147023.6
	-1.5	820.1	-5.1	120591.4	-296.9	146926.8
	8.6	820.9	-4.8	120571.1	-276.9	146900.0
	9.1	824.3	-4.2	120471.0	-242.0	146803.2
	-16.1	888.3	5.1	118523.4	287.3	144942.2
	-15.6	891.7	5.7	118423.3	322.1	144845.4
	-5.4	892.5	6.0	118403.0	342.2	144818.6
	-5.0	895.8	6.5	118302.9	377.0	144721.8
	-14.0	865.7	1.6	119207.5	82.1	145601.6
	-13.6	869.0	2.2	119107.4	117.0	145504.8
	-3.4	869.8	2.4	119087.1	137.0	145478.0
	-2.9	873.2	3.0	118987.0	171.9	145381.2
58.	-4.0	-95.8	-2.1	120007.4	-1.1	166468.6
	-3.6	-92.5	-1.5	119907.3	-0.4	166566.2
	6.6	-91.6	-1.3	119887.0	5.9	166588.7
	7.0	-88.3	-0.7	119786.9	6.6	166686.4
	-2.0	-118.5	-5.6	120691.5	0.1	165804.9
	-1.5	-115.2	-5.1	120591.4	0.7	165902.6
	8.6	-114.3	-4.8	120571.1	7.0	165925.0
	9.1	-111.0	-4.2	120471.0	7.7	166022.7
	-16.1	-46.9	5.1	118523.4	-15.2	167899.1
	-15.6	-43.6	5.7	118423.3	-14.6	167996.7
	-5.4	-42.8	6.0	118403.0	-8.3	168019.2
	-5.0	-39.4	6.5	118302.9	-7.6	168116.9
	-14.0	-69.6	1.6	119207.5	-14.1	167235.4
	-13.6	-66.3	2.2	119107.4	-13.5	167333.1
	-3.4	-65.4	2.4	119087.1	-7.1	167355.5
	-2.9	-62.1	3.0	118987.0	-6.5	167453.2
117.	-4.0	-703.9	-2.1	120007.4	118.9	141545.6
	-3.6	-700.6	-1.5	119907.3	85.4	141837.7
	6.6	-699.7	-1.3	119887.0	76.2	141909.4
	7.0	-696.4	-0.7	119786.9	42.7	142201.6
	-2.0	-726.6	-5.6	120691.5	326.3	139558.9
	-1.5	-723.3	-5.1	120591.4	292.8	139851.0
	8.6	-722.4	-4.8	120571.1	283.6	139922.7
	9.1	-719.1	-4.2	120471.0	250.1	140214.8

	-16.1	-655.0	5.1	118523.4	-310.5	145828.6
	-15.6	-651.7	5.7	118423.3	-344.0	146120.8
	-5.4	-650.8	6.0	118403.0	-353.2	146192.4
	-5.0	-647.5	6.5	118302.9	-386.7	146484.6
	-14.0	-677.7	1.6	119207.5	-103.1	143841.9
	-13.6	-674.4	2.2	119107.4	-136.6	144134.1
	-3.4	-673.5	2.4	119087.1	-145.8	144205.7
	-2.9	-670.2	3.0	118987.0	-179.3	144497.9
Asta	208	nod	171	108		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3.4	-1194.0	1.0	26618.1	36.2	189555.8
	-2.7	-1192.6	0.8	26742.7	25.8	189612.6
	8.7	-1192.2	0.8	26767.2	27.7	189628.5
	9.4	-1190.8	0.6	26891.7	17.2	189685.3
	-1.1	-1203.5	2.8	25766.7	109.3	189168.9
	-0.4	-1202.1	2.6	25891.2	98.9	189225.7
	11.1	-1201.7	2.6	25915.7	100.8	189241.6
	11.8	-1200.3	2.4	26040.2	90.3	189298.4
	-19.6	-1173.7	-3.0	28466.2	-126.6	190389.6
	-18.9	-1172.3	-3.2	28590.7	-137.1	190446.4
	-7.5	-1171.9	-3.2	28615.2	-135.1	190462.3
	-6.8	-1170.5	-3.4	28739.7	-145.6	190519.1
	-17.3	-1183.2	-1.2	27614.7	-53.5	190002.7
	-16.5	-1181.8	-1.4	27739.2	-63.9	190059.5
	-5.1	-1181.4	-1.4	27763.7	-62.0	190075.4
103.	-4.4	-1180.0	-1.6	27888.3	-72.5	190132.2
	-3.4	-3087.0	1.0	26618.1	-70.4	-31709.4
	-2.7	-3085.6	0.8	26742.7	-54.8	-31507.6
	8.7	-3085.1	0.8	26767.2	-56.6	-31444.7
	9.4	-3083.7	0.6	26891.7	-40.9	-31242.9
	-1.1	-3096.4	2.8	25766.7	-183.2	-33077.0
	-0.4	-3095.0	2.6	25891.2	-167.6	-32875.1
	11.1	-3094.6	2.6	25915.7	-169.4	-32812.3
	11.8	-3093.2	2.4	26040.2	-153.8	-32610.5
	-19.6	-3066.7	-3.0	28466.2	179.3	-28777.3
	-18.9	-3065.3	-3.2	28590.7	194.9	-28575.5
	-7.5	-3064.8	-3.2	28615.2	193.1	-28512.6
	-6.8	-3063.4	-3.4	28739.7	208.7	-28310.8
	-17.3	-3076.2	-1.2	27614.7	66.5	-30144.9
	-16.5	-3074.7	-1.4	27739.2	82.1	-29943.0
	-5.1	-3074.3	-1.4	27763.7	80.3	-29880.2
	-4.4	-3072.9	-1.6	27888.3	95.9	-29678.4
207.	-3.4	-4982.2	1.0	26618.1	-177.0	-448786.8
	-2.7	-4980.8	0.8	26742.7	-135.3	-448440.0
	8.7	-4980.4	0.8	26767.2	-140.8	-448330.2
	9.4	-4979.0	0.6	26891.7	-99.2	-447983.4
	-1.1	-4991.7	2.8	25766.7	-475.8	-451135.0
	-0.4	-4990.3	2.6	25891.2	-434.1	-450788.2
	11.1	-4989.9	2.6	25915.7	-439.6	-450678.4
	11.8	-4988.5	2.4	26040.2	-397.9	-450331.6
	-19.6	-4961.9	-3.0	28466.2	485.2	-443756.3
	-18.9	-4960.5	-3.2	28590.7	526.9	-443409.5
	-7.5	-4960.1	-3.2	28615.2	521.4	-443299.7
	-6.8	-4958.7	-3.4	28739.7	563.0	-442952.9
	-17.3	-4971.4	-1.2	27614.7	186.4	-446104.5
	-16.5	-4970.0	-1.4	27739.2	228.1	-445757.7
	-5.1	-4969.6	-1.4	27763.7	222.6	-445647.9
	-4.4	-4968.2	-1.6	27888.3	264.3	-445301.1
Asta	209	nod	108	105		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4.5	662.2	1.3	-15735.3	215.3	-95132.7
	-4.5	665.9	1.0	-15753.5	169.9	-95741.8
	7.6	667.0	1.1	-15757.8	171.5	-95921.3
	7.6	670.6	0.8	-15776.0	126.1	-96530.4
	-2.4	637.4	3.4	-15611.4	546.0	-91003.4
	-2.4	641.1	3.1	-15629.6	500.6	-91612.4
	9.7	642.2	3.1	-15633.9	502.1	-91791.9
	9.7	645.8	2.8	-15652.2	456.8	-92401.0
	-10.0	715.4	-3.3	-16001.3	-532.0	-103991.4
	-10.0	719.0	-3.6	-16019.5	-577.4	-104600.5
	2.2	720.1	-3.5	-16023.8	-575.8	-104780.0
	2.2	723.8	-3.8	-16042.1	-621.2	-105389.0
	-7.9	690.6	-1.2	-15877.4	-201.3	-99862.0
	-7.8	694.3	-1.5	-15895.6	-246.7	-100471.1
	4.3	695.3	-1.5	-15900.0	-245.1	-100650.6
	4.3	699.0	-1.8	-15918.2	-290.5	-101259.6
162.	-4.5	359.1	1.3	-15735.3	3.2	-12581.7
	-4.5	362.8	1.0	-15753.5	3.2	-12599.9
	7.6	363.9	1.1	-15757.8	1.0	-12606.1
	7.6	367.5	0.8	-15776.0	1.0	-12624.2
	-2.4	334.3	3.4	-15611.4	4.0	-12458.9
	-2.4	338.0	3.1	-15629.6	4.0	-12477.0
	9.7	339.1	3.1	-15633.9	1.8	-12483.2
	9.7	342.7	2.8	-15652.2	1.8	-12501.3
	-10.0	412.3	-3.3	-16001.3	-1.2	-12846.0
	-10.0	416.0	-3.6	-16019.5	-1.2	-12864.1
	2.2	417.0	-3.5	-16023.8	-3.4	-12870.3
	2.2	420.7	-3.8	-16042.1	-3.4	-12888.4
	-7.9	387.5	-1.2	-15877.4	-0.4	-12723.1

	-7.8	391.2	-1.5	-15895.6	-0.4	-12741.2
	4.3	392.2	-1.5	-15900.0	-2.6	-12747.4
	4.3	395.9	-1.8	-15918.2	-2.6	-12765.6
323.	-4.5	56.0	1.3	-15735.3	-210.4	20974.1
	-4.5	59.7	1.0	-15753.5	-165.0	21546.9
	7.6	60.8	1.1	-15757.8	-169.1	21714.1
	7.6	64.4	0.8	-15776.0	-123.7	22286.8
	-2.4	31.3	3.4	-15611.4	-539.6	17090.5
	-2.4	34.9	3.1	-15629.6	-494.2	17663.3
	9.7	36.0	3.1	-15633.9	-498.3	17830.5
	9.7	39.6	2.8	-15652.2	-452.9	18403.2
	-10.0	109.2	-3.3	-16001.3	529.3	29304.4
	-10.0	112.9	-3.6	-16019.5	574.7	29877.1
	2.2	113.9	-3.5	-16023.8	570.6	30044.3
	2.2	117.6	-3.8	-16042.1	616.0	30617.1
	-7.9	84.4	-1.2	-15877.4	200.1	25420.8
	-7.8	88.1	-1.5	-15895.6	245.5	25993.5
	4.3	89.1	-1.5	-15900.0	241.4	26160.7
	4.3	92.8	-1.8	-15918.2	286.8	26733.4
Asta	210	nodj	105	103		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-5.6	262.8	1.5	-1001.1	239.4	-8041.2
	-4.9	266.3	1.3	-1023.8	197.7	-8602.6
	9.6	267.2	1.3	-1028.5	207.2	-8759.7
	10.3	270.7	1.1	-1051.2	165.5	-9321.1
	-1.8	239.1	3.5	-846.0	559.1	-4231.2
	-1.0	242.6	3.2	-868.7	517.4	-4792.5
	13.4	243.6	3.3	-873.4	526.9	-4949.7
	14.1	247.1	3.0	-896.1	485.1	-5511.1
	-18.6	313.5	-3.7	-1337.0	-589.1	-16217.0
	-17.9	317.0	-3.9	-1359.7	-630.9	-16778.3
	-3.4	318.0	-3.9	-1364.4	-621.4	-16935.5
	-2.7	321.4	-4.1	-1387.1	-663.1	-17496.9
	-14.8	289.9	-1.7	-1181.9	-269.4	-12406.9
	-14.0	293.4	-2.0	-1204.6	-311.2	-12968.3
	0.4	294.3	-1.9	-1209.3	-301.7	-13125.5
	1.1	297.8	-2.2	-1232.0	-343.4	-13686.8
162.	-5.6	-40.3	1.5	-1001.1	-7.3	9941.4
	-4.9	-36.8	1.3	-1023.8	-7.4	9942.9
	9.6	-35.9	1.3	-1028.5	-11.9	9939.9
	10.3	-32.4	1.1	-1051.2	-12.1	9941.4
	-1.8	-63.9	3.5	-846.0	-6.1	9930.1
	-1.0	-60.5	3.2	-868.7	-6.3	9931.6
	13.4	-59.5	3.3	-873.4	-10.8	9928.6
	14.1	-56.0	3.0	-896.1	-10.9	9930.1
	-18.6	10.4	-3.7	-1337.0	12.7	9967.1
	-17.9	13.9	-3.9	-1359.7	12.6	9968.5
	-3.4	14.9	-3.9	-1364.4	8.1	9965.6
	-2.7	18.4	-4.1	-1387.1	7.9	9967.1
	-14.8	-13.2	-1.7	-1181.9	13.9	9955.7
	-14.0	-9.7	-2.0	-1204.6	13.7	9957.2
	0.4	-8.8	-1.9	-1209.3	9.2	9954.3
	1.1	-5.3	-2.2	-1232.0	9.1	9955.8
323.	-5.6	-343.4	1.5	-1001.1	-251.8	-21072.5
	-4.9	-339.9	1.3	-1023.8	-210.3	-20508.1
	9.6	-339.0	1.3	-1028.5	-218.9	-20354.0
	10.3	-335.5	1.1	-1051.2	-177.5	-19789.6
	-1.8	-367.0	3.5	-846.0	-569.1	-24905.1
	-1.0	-363.6	3.2	-868.7	-527.7	-24340.8
	13.4	-362.6	3.3	-873.4	-536.3	-24186.6
	14.1	-359.1	3.0	-896.1	-494.9	-23622.3
	-18.6	-292.7	-3.7	-1337.0	602.5	-12845.5
	-17.9	-289.2	-3.9	-1359.7	643.9	-12281.2
	-3.4	-288.2	-3.9	-1364.4	635.3	-12127.1
	-2.7	-284.7	-4.1	-1387.1	676.8	-11562.7
	-14.8	-316.3	-1.7	-1181.9	285.1	-16678.2
	-14.0	-312.8	-2.0	-1204.6	326.6	-16113.8
	0.4	-311.9	-1.9	-1209.3	317.9	-15959.7
	1.1	-308.4	-2.2	-1232.0	359.4	-15395.4
Asta	211	nodj	103	102		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-24.7	252.2	1.1	316.1	173.4	-8049.9
	-25.3	255.6	0.8	294.4	125.5	-8613.0
	-17.2	256.6	0.8	289.6	127.0	-8763.1
	-17.7	260.0	0.5	267.8	79.1	-9326.2
	-19.4	228.5	3.3	464.6	525.6	-4223.2
	-20.0	232.0	3.0	442.8	477.7	-4786.3
	-11.9	232.9	2.9	438.0	479.2	-4936.5
	-12.5	236.4	2.7	416.2	431.3	-5499.6
	13.7	302.8	-3.1	-1.0	-495.2	-16255.9
	13.2	306.3	-3.3	-22.7	-543.2	-16819.0
	21.3	307.2	-3.4	-27.5	-541.7	-16969.2
	20.7	310.7	-3.7	-49.3	-589.6	-17532.3
	19.0	279.2	-0.9	147.5	-143.0	-12429.3
	18.4	282.6	-1.2	125.7	-191.0	-12992.4
	26.6	283.6	-1.2	120.9	-189.5	-13142.6
	26.0	287.0	-1.5	99.1	-237.4	-13705.7
162.	-24.7	-51.0	1.1	316.1	-11.7	8211.6
	-25.3	-47.6	0.8	294.4	-12.3	8210.5

	-17.2	-46.6	0.8	289.6	-6.2	8210.0
	-17.7	-43.2	0.5	267.8	-6.8	8208.9
	-19.4	-74.7	3.3	464.6	-9.5	8218.7
	-20.0	-71.2	3.0	442.8	-10.1	8217.6
	-11.9	-70.3	2.9	438.0	-4.0	8217.0
	-12.5	-66.8	2.7	416.2	-4.6	8216.0
	13.7	-0.4	-3.1	-1.0	5.3	8192.3
	13.2	3.1	-3.3	-22.7	4.7	8191.3
	21.3	4.0	-3.4	-27.5	10.9	8190.7
	20.7	7.5	-3.7	-49.3	10.3	8189.6
	19.0	-24.0	-0.9	147.5	7.6	8199.4
	18.4	-20.5	-1.2	125.7	6.9	8198.3
	26.6	-19.6	-1.2	120.9	13.1	8197.8
	26.0	-16.1	-1.5	99.1	12.5	8196.7
323.	-24.7	-354.2	1.1	316.1	-178.9	-24553.1
	-25.3	-350.7	0.8	294.4	-132.2	-23992.1
	-17.2	-349.8	0.8	289.6	-125.8	-23843.1
	-17.7	-346.3	0.5	267.8	-79.0	-23282.1
	-19.4	-377.8	3.3	464.6	-526.7	-28365.6
	-20.0	-374.4	3.0	442.8	-480.0	-27804.7
	-11.9	-373.4	2.9	438.0	-473.6	-27655.6
	-12.5	-370.0	2.7	416.2	-426.8	-27094.6
	13.7	-303.6	-3.1	-1.0	492.3	-16384.1
	13.2	-300.1	-3.3	-22.7	539.1	-15823.1
	21.3	-299.2	-3.4	-27.5	545.5	-15674.0
	20.7	-295.7	-3.7	-49.3	592.2	-15113.1
	19.0	-327.2	-0.9	147.5	144.5	-20196.6
	18.4	-323.7	-1.2	125.7	191.3	-19635.6
	26.6	-322.8	-1.2	120.9	197.7	-19486.6
	26.0	-319.3	-1.5	99.1	244.4	-18925.6
Asta PROGR. 0.	212 NORM	nod TYY	102 TZZ	95 TORS	MY MY	MZ MZZ
	-2.9	214.3	1.1	11280.7	183.1	-2451.2
	-2.5	217.8	0.8	11260.2	135.4	-3013.1
	-2.6	218.8	0.9	11256.0	138.9	-3162.1
	-2.3	222.3	0.6	11235.5	91.2	-3723.9
	-2.1	190.3	3.3	11420.4	527.4	1367.7
	-1.7	193.8	3.0	11400.0	479.7	805.8
	-1.8	194.8	3.0	11395.7	483.2	656.8
	-1.5	198.3	2.7	11375.2	435.5	95.0
	0.4	265.6	-3.2	10982.3	-516.0	-10628.5
	0.8	269.2	-3.5	10961.8	-563.7	-11190.4
	0.7	270.1	-3.5	10957.5	-560.2	-11339.4
	1.0	273.6	-3.8	10937.0	-607.9	-11901.2
	1.2	241.7	-1.1	11122.0	-171.7	-6809.6
	1.6	245.2	-1.4	11101.5	-219.4	-7371.5
	1.5	246.1	-1.3	11097.2	-215.9	-7520.4
	1.9	249.7	-1.6	11076.8	-263.6	-8082.3
162.	-2.9	-88.8	1.1	11280.7	-3.0	7691.3
	-2.5	-85.3	0.8	11260.2	-2.8	7699.8
	-2.6	-84.3	0.9	11256.0	-0.3	7702.1
	-2.3	-80.8	0.6	11235.5	0.0	7710.5
	-2.1	-112.8	3.3	11420.4	-6.2	7633.3
	-1.7	-109.3	3.0	11400.0	-6.0	7641.8
	-1.8	-108.3	3.0	11395.7	-3.4	7644.1
	-1.5	-104.8	2.7	11375.2	-3.2	7652.6
	0.4	-37.4	-3.2	10982.3	3.2	7815.7
	0.8	-33.9	-3.5	10961.8	3.4	7824.2
	0.7	-33.0	-3.5	10957.5	6.0	7826.5
	1.0	-29.5	-3.8	10937.0	6.2	7834.9
	1.2	-61.4	-1.1	11122.0	0.0	7757.7
	1.6	-57.9	-1.4	11101.5	0.3	7766.2
	1.5	-57.0	-1.3	11097.2	2.8	7768.5
	1.9	-53.4	-1.6	11076.8	3.0	7776.9
323.	-2.9	-391.9	1.1	11280.7	-185.8	-31161.2
	-2.5	-388.4	0.8	11260.2	-137.7	-30582.4
	-2.6	-387.4	0.9	11256.0	-138.1	-30428.9
	-2.3	-383.9	0.6	11235.5	-90.0	-29850.1
	-2.1	-415.9	3.3	11420.4	-536.4	-35096.1
	-1.7	-412.4	3.0	11400.0	-488.3	-34517.3
	-1.8	-411.4	3.0	11395.7	-488.7	-34363.8
	-1.5	-407.9	2.7	11375.2	-440.6	-33785.0
	0.4	-340.5	-3.2	10982.3	521.1	-22735.2
	0.8	-337.0	-3.5	10961.8	569.2	-22156.4
	0.7	-336.1	-3.5	10957.5	568.8	-22002.8
	1.0	-332.5	-3.8	10937.0	616.9	-21424.0
	1.2	-364.5	-1.1	11122.0	170.5	-26670.1
	1.6	-361.0	-1.4	11101.5	218.6	-26091.3
	1.5	-360.1	-1.3	11097.2	218.2	-25937.7
	1.9	-356.5	-1.6	11076.8	266.3	-25358.9
Asta PROGR. 0.	213 NORM	nod TYY	95 TZZ	96 TORS	MY MY	MZ MZZ
	10.6	313.4	1.0	-869.3	178.7	-16638.8
	10.6	316.5	0.8	-884.8	133.3	-17181.0
	5.4	317.3	0.8	-887.7	136.1	-17326.4
	5.5	320.4	0.5	-903.2	90.6	-17868.6
	8.0	292.2	2.8	-764.1	495.3	-12952.8
	8.0	295.3	2.6	-779.6	449.8	-13495.0

	2.8	296.1	2.6	-782.6	452.7	-13640.4
	2.9	299.3	2.3	-798.1	407.2	-14182.6
	-2.3	358.7	-2.7	-1094.5	-481.3	-24533.4
	-2.3	361.8	-3.0	-1110.0	-526.7	-25075.6
	-7.5	362.7	-3.0	-1112.9	-523.9	-25221.0
	-7.5	365.8	-3.2	-1128.4	-569.4	-25763.2
	-4.9	337.5	-0.9	-989.3	-164.7	-20847.4
	-4.9	340.7	-1.2	-1004.8	-210.2	-21389.6
	-10.1	341.5	-1.2	-1007.7	-207.4	-21535.0
173.	-10.1	344.6	-1.4	-1023.2	-252.8	-22077.2
	10.6	-10.1	1.0	-869.3	5.6	9519.6
	10.6	-7.0	0.8	-884.8	4.7	9514.9
	5.4	-6.1	0.8	-887.7	4.9	9514.4
	5.5	-3.0	0.5	-903.2	4.0	9509.6
	8.0	-31.3	2.8	-764.1	9.4	9552.2
	8.0	-28.1	2.6	-779.6	8.6	9547.4
	2.8	-27.3	2.6	-782.6	8.7	9546.9
	2.9	-24.2	2.3	-798.1	7.9	9542.1
	-2.3	35.3	-2.7	-1094.5	-9.2	9450.7
	-2.3	38.4	-3.0	-1110.0	-10.1	9445.9
	-7.5	39.2	-3.0	-1112.9	-9.9	9445.4
	-7.5	42.4	-3.2	-1128.4	-10.8	9440.6
	-4.9	14.1	-0.9	-989.3	-5.3	9483.2
	-4.9	17.2	-1.2	-1004.8	-6.2	9478.4
	-10.1	18.1	-1.2	-1007.7	-6.0	9477.9
	-10.1	21.2	-1.4	-1023.2	-6.9	9473.2
345.	10.6	-333.5	1.0	-869.3	-170.2	-20115.0
	10.6	-330.4	0.8	-884.8	-126.6	-19582.3
	5.4	-329.6	0.8	-887.7	-128.7	-19437.9
	5.5	-326.4	0.5	-903.2	-85.0	-18905.2
	8.0	-354.7	2.8	-764.1	-479.1	-23735.9
	8.0	-351.6	2.6	-779.6	-435.4	-23203.2
	2.8	-350.7	2.6	-782.6	-437.5	-23058.8
	2.9	-347.6	2.3	-798.1	-393.9	-22526.1
	-2.3	-288.1	-2.7	-1094.5	465.3	-12358.3
	-2.3	-285.0	-3.0	-1110.0	509.0	-11825.6
	-7.5	-284.2	-3.0	-1112.9	506.8	-11681.2
	-7.5	-281.1	-3.2	-1128.4	550.5	-11148.5
	-4.9	-309.3	-0.9	-989.3	156.5	-15979.2
	-4.9	-306.2	-1.2	-1004.8	200.2	-15446.5
	-10.1	-305.4	-1.2	-1007.7	198.0	-15302.1
	-10.1	-302.3	-1.4	-1023.2	241.7	-14769.4
Asta	214	nod1	96	90		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.2	317.3	1.5	12636.2	229.1	-16783.0
	0.1	320.3	1.1	12437.9	175.0	-17275.9
	-0.5	321.2	1.1	12395.8	165.4	-17413.7
	-0.5	324.2	0.7	12197.5	111.2	-17906.6
	0.1	296.5	3.9	13983.5	598.2	-13433.9
	0.0	299.5	3.5	13785.3	544.0	-13926.7
	-0.6	300.4	3.5	13743.1	534.5	-14064.6
	-0.6	303.4	3.1	13544.9	480.3	-14557.5
	0.4	361.8	-3.6	9756.1	-559.7	-23961.3
	0.4	364.9	-4.0	9557.8	-613.8	-24454.2
	-0.3	365.8	-4.1	9515.7	-623.4	-24592.1
	-0.3	368.8	-4.4	9317.4	-677.5	-25084.9
	0.3	341.0	-1.2	11103.4	-190.6	-20612.2
	0.3	344.1	-1.6	10905.2	-244.7	-21105.1
	-0.4	345.0	-1.7	10863.1	-254.3	-21242.9
	-0.4	348.0	-2.0	10664.8	-308.4	-21735.8
170.	0.2	-1.5	1.5	12636.2	-22.8	10058.1
	0.1	1.6	1.1	12437.9	-17.1	10085.6
	-0.5	2.4	1.1	12395.8	-16.8	10093.0
	-0.5	5.5	0.7	12197.5	-11.0	10120.5
	0.1	-22.3	3.9	13983.5	-62.3	9871.0
	0.0	-19.2	3.5	13785.3	-56.5	9898.6
	-0.6	-18.4	3.5	13743.1	-56.2	9905.9
	-0.6	-15.3	3.1	13544.9	-50.5	9933.4
	0.4	43.1	-3.6	9756.1	60.1	10458.7
	0.4	46.2	-4.0	9557.8	65.8	10486.2
	-0.3	47.0	-4.1	9515.7	66.2	10493.6
	-0.3	50.1	-4.4	9317.4	71.9	10521.1
	0.3	22.3	-1.2	11103.4	20.7	10271.6
	0.3	25.4	-1.6	10905.2	26.4	10299.2
	-0.4	26.2	-1.7	10863.1	26.7	10306.5
	-0.4	29.3	-2.0	10664.8	32.4	10334.0
340.	0.2	-320.2	1.5	12636.2	-274.6	-17288.3
	0.1	-317.2	1.1	12437.9	-209.0	-16740.4
	-0.5	-316.3	1.1	12395.8	-198.9	-16587.8
	-0.5	-313.3	0.7	12197.5	-133.3	-16039.9
	0.1	-341.0	3.9	13983.5	-722.6	-21011.6
	0.0	-338.0	3.5	13785.3	-657.1	-20463.6
	-0.6	-337.1	3.5	13743.1	-646.9	-20311.1
	-0.6	-334.1	3.1	13544.9	-581.3	-19763.1
	0.4	-275.7	-3.6	9756.1	679.9	-9308.8
	0.4	-272.6	-4.0	9557.8	745.5	-8760.9
	-0.3	-271.7	-4.1	9515.7	755.7	-8608.3
	-0.3	-268.7	-4.4	9317.4	821.2	-8060.4
	0.3	-296.5	-1.2	11103.4	231.9	-13032.1
	0.3	-293.4	-1.6	10905.2	297.5	-12484.1

	-0.4	-292.5	-1.7	10863.1	307.6	-12331.5
	-0.4	-289.5	-2.0	10664.8	373.2	-11783.6
Asta	215	nod	177	178		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	2.5	2738.7	1.1	-3326.4	225.9	-488901.4
	3.2	2741.2	0.8	-3281.5	172.4	-489429.2
	8.1	2741.8	0.6	-3258.6	140.9	-489537.2
	8.9	2744.3	0.4	-3213.7	87.4	-490065.1
	3.5	2721.1	2.8	-3629.1	574.9	-485297.3
	4.3	2723.7	2.6	-3584.2	521.4	-485825.1
	9.2	2724.2	2.3	-3561.4	489.9	-485933.1
	10.0	2726.8	2.1	-3516.5	436.4	-486460.9
	-10.2	2776.7	-2.5	-2682.8	-511.7	-496707.3
	-9.5	2779.2	-2.7	-2637.9	-565.2	-497235.1
	-4.6	2779.8	-2.9	-2615.1	-596.7	-497343.1
	-3.8	2782.3	-3.2	-2570.2	-650.3	-497870.9
	-9.2	2759.1	-0.7	-2985.6	-162.7	-493103.1
	-8.4	2761.7	-1.0	-2940.7	-216.2	-493631.0
	-3.5	2762.2	-1.2	-2917.8	-247.7	-493739.0
	-2.7	2764.8	-1.5	-2872.9	-301.3	-494266.8
135.	2.5	2485.5	1.1	-3326.4	76.3	-136267.6
	3.2	2488.1	0.8	-3281.5	59.7	-136448.2
	8.1	2488.6	0.6	-3258.6	55.5	-136485.2
	8.9	2491.2	0.4	-3213.7	38.9	-136665.8
	3.5	2468.0	2.8	-3629.1	193.7	-135033.5
	4.3	2470.6	2.6	-3584.2	177.1	-135214.1
	9.2	2471.1	2.3	-3561.4	172.9	-135251.0
	10.0	2473.7	2.1	-3516.5	156.3	-135431.7
	-10.2	2523.5	-2.5	-2682.8	-180.9	-138943.1
	-9.5	2526.1	-2.7	-2637.9	-197.5	-139123.7
	-4.6	2526.6	-2.9	-2615.1	-201.7	-139160.6
	-3.8	2529.2	-3.2	-2570.2	-218.3	-139341.3
	-9.2	2506.0	-0.7	-2985.6	-63.5	-137709.0
	-8.4	2508.6	-1.0	-2940.7	-80.1	-137889.6
	-3.5	2509.1	-1.2	-2917.8	-84.3	-137926.5
	-2.7	2511.7	-1.5	-2872.9	-100.9	-138107.1
270.	2.5	2232.4	1.1	-3326.4	-75.4	182194.3
	3.2	2235.0	0.8	-3281.5	-55.1	182360.9
	8.1	2235.5	0.6	-3258.6	-31.0	182395.0
	8.9	2238.1	0.4	-3213.7	-10.7	182561.6
	3.5	2214.9	2.8	-3629.1	-189.6	181058.4
	4.3	2217.4	2.6	-3584.2	-169.2	181225.0
	9.2	2218.0	2.3	-3561.4	-145.1	181259.1
	10.0	2220.5	2.1	-3516.5	-124.8	181425.7
	-10.2	2270.4	-2.5	-2682.8	150.9	184649.2
	-9.5	2273.0	-2.7	-2637.9	171.3	184815.8
	-4.6	2273.5	-2.9	-2615.1	195.4	184850.0
	-3.8	2276.1	-3.2	-2570.2	215.7	185016.6
	-9.2	2252.9	-0.7	-2985.6	36.8	183513.3
	-8.4	2255.4	-1.0	-2940.7	57.1	183680.0
	-3.5	2256.0	-1.2	-2917.8	81.3	183714.1
	-2.7	2258.5	-1.5	-2872.9	101.6	183880.7
Asta	216	nod	174	178		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4.9	5077.1	0.7	-62186.9	172.6	-438855.6
	-4.9	5077.8	0.5	-62453.6	132.1	-439153.5
	2.5	5078.1	0.5	-62508.0	129.8	-439261.7
	2.5	5078.9	0.4	-62774.7	89.3	-439559.6
	-3.5	5071.9	1.8	-60366.9	449.9	-436844.2
	-3.5	5072.7	1.7	-60633.6	409.4	-437142.1
	3.9	5073.0	1.7	-60688.0	407.1	-437250.2
	3.9	5073.8	1.5	-60954.7	366.6	-437548.1
	-8.8	5087.9	-1.7	-66125.8	-425.5	-443153.6
	-8.8	5088.7	-1.9	-66392.5	-466.1	-443451.5
	-1.4	5089.0	-1.9	-66446.9	-468.4	-443559.6
	-1.4	5089.8	-2.1	-66713.6	-508.9	-443857.6
	-7.4	5082.8	-0.6	-64305.8	-148.3	-441142.2
	-7.4	5083.6	-0.8	-64572.5	-188.8	-441440.1
	0.0	5083.9	-0.8	-64626.9	-191.1	-441548.2
	0.0	5084.7	-0.9	-64893.6	-231.6	-441846.1
162.	-4.9	1778.8	0.7	-62186.9	60.3	113561.5
	-4.9	1779.5	0.5	-62453.6	47.3	113386.6
	2.5	1779.8	0.5	-62508.0	45.1	113330.5
	2.5	1780.6	0.4	-62774.7	32.1	113155.6
	-3.5	1773.6	1.8	-60366.9	153.4	114745.6
	-3.5	1774.4	1.7	-60633.6	140.4	114570.6
	3.9	1774.7	1.7	-60688.0	138.2	114514.6
	3.9	1775.5	1.5	-60954.7	125.2	114339.6
	-8.8	1789.6	-1.7	-66125.8	-145.1	111023.3
	-8.8	1790.4	-1.9	-66392.5	-158.1	110848.4
	-1.4	1790.7	-1.9	-66446.9	-160.4	110792.3
	-1.4	1791.5	-2.1	-66713.6	-173.4	110617.4
	-7.4	1784.5	-0.6	-64305.8	-52.0	112207.3
	-7.4	1785.3	-0.8	-64572.5	-65.0	112032.4
	0.0	1785.6	-0.8	-64626.9	-67.2	111976.4
	0.0	1786.4	-0.9	-64893.6	-80.2	111801.4
323.	-4.9	-1393.0	0.7	-62186.9	-52.7	143038.5
	-4.9	-1392.2	0.5	-62453.6	-38.1	142986.6
	2.5	-1391.9	0.5	-62508.0	-39.8	142981.8

	2.5	-1391.1	0.4	-62774.7	-25.3	142929.8
	-3.5	-1398.1	1.8	-60366.9	-143.7	143395.1
	-3.5	-1397.3	1.7	-60633.6	-129.2	143343.2
	3.9	-1397.0	1.7	-60688.0	-130.8	143338.4
	3.9	-1396.2	1.5	-60954.7	-116.3	143286.5
	-8.8	-1382.1	-1.7	-66125.8	135.4	142259.7
	-8.8	-1381.3	-1.9	-66392.5	149.9	142207.8
	-1.4	-1381.0	-1.9	-66446.9	148.3	142202.9
	-1.4	-1380.2	-2.1	-66713.6	162.8	142151.0
	-7.4	-1387.2	-0.6	-64305.8	44.4	142616.3
	-7.4	-1386.4	-0.8	-64572.5	58.9	142564.4
	0.0	-1386.1	-0.8	-64626.9	57.3	142559.6
	0.0	-1385.4	-0.9	-64893.6	71.8	142507.7
Asta	217	nod1	158	177		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2.7	6942.5	0.7	1209.5	314.1	-596012.2
	-2.4	6950.1	0.5	949.6	234.1	-599425.7
	-8.7	6951.7	0.5	899.2	227.4	-600126.2
	-8.5	6959.2	0.3	639.3	147.5	-603539.7
	-3.2	6890.7	1.8	2968.9	828.8	-572709.4
	-2.9	6898.3	1.7	2709.0	748.9	-576122.9
	-9.3	6899.9	1.6	2658.6	742.2	-576823.5
	-9.0	6907.5	1.5	2398.8	662.2	-580237.0
	-4.5	7054.6	-1.7	-2575.0	-767.2	-646479.7
	-4.2	7062.2	-1.9	-2834.8	-847.1	-649893.2
	-10.5	7063.8	-1.9	-2885.2	-853.8	-650593.7
	-10.3	7071.4	-2.1	-3145.1	-933.8	-654007.2
	-5.0	7002.9	-0.6	-815.6	-252.4	-623176.9
	-4.7	7010.4	-0.7	-1075.4	-332.4	-626590.4
	-11.0	7012.0	-0.8	-1125.8	-339.1	-627291.0
	-10.8	7019.6	-0.9	-1385.7	-419.0	-630704.5
423.	-2.7	-356.9	0.7	1209.5	20.8	795815.9
	-2.4	-349.3	0.5	949.6	15.5	795606.1
	-8.7	-347.8	0.5	899.2	14.2	795565.9
	-8.5	-340.2	0.3	639.3	8.8	795356.1
	-3.2	-408.7	1.8	2968.9	54.4	797247.7
	-2.9	-401.1	1.7	2709.0	49.1	797037.9
	-9.3	-399.5	1.6	2658.6	47.7	796997.7
	-9.0	-391.9	1.5	2398.8	42.4	796787.9
	-4.5	-244.8	-1.7	-2575.0	-48.8	792716.9
	-4.2	-237.2	-1.9	-2834.8	-54.2	792507.1
	-10.5	-235.7	-1.9	-2885.2	-55.5	792466.9
	-10.3	-228.1	-2.1	-3145.1	-60.9	792257.1
	-5.0	-296.6	-0.6	-815.6	-15.3	794148.7
	-4.7	-289.0	-0.7	-1075.4	-20.6	793938.9
	-11.0	-287.4	-0.8	-1125.8	-21.9	793898.7
	-10.8	-279.8	-0.9	-1385.7	-27.3	793688.9
845.	-2.7	-7673.9	0.7	1209.5	-272.5	-900082.7
	-2.4	-7666.4	0.5	949.6	-203.3	-897088.8
	-8.7	-7664.8	0.5	899.2	-199.1	-896468.6
	-8.5	-7657.2	0.3	639.3	-129.8	-893474.7
	-3.2	-7725.7	1.8	2968.9	-720.1	-920521.9
	-2.9	-7718.1	1.7	2709.0	-650.9	-917528.0
	-9.3	-7716.6	1.6	2658.6	-646.7	-916907.9
	-9.0	-7709.0	1.5	2398.8	-577.4	-913914.0
	-4.5	-7561.8	-1.7	-2575.0	669.5	-855813.2
	-4.2	-7554.2	-1.9	-2834.8	738.7	-852819.3
	-10.5	-7552.7	-1.9	-2885.2	742.9	-852199.1
	-10.3	-7545.1	-2.1	-3145.1	812.1	-849205.3
	-5.0	-7613.6	-0.6	-815.6	221.9	-876252.4
	-4.7	-7606.0	-0.7	-1075.4	291.1	-873258.5
	-11.0	-7604.5	-0.8	-1125.8	295.3	-872638.4
	-10.8	-7596.9	-0.9	-1385.7	364.5	-869644.5
Asta	218	nod1	108	109		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-6.5	4767.9	1.0	24839.2	252.4	-338394.9
	-6.8	4773.0	0.7	24404.2	189.6	-339799.8
	-7.2	4773.9	0.7	24307.8	177.5	-340070.3
	-7.5	4779.0	0.4	23872.8	114.8	-341475.2
	-7.0	4732.8	2.5	27790.1	658.4	-328770.4
	-7.3	4737.9	2.3	27355.1	595.6	-330175.2
	-7.7	4738.9	2.2	27258.7	583.5	-330445.8
	-8.0	4744.0	2.0	26823.7	520.8	-331850.6
	-1.5	4844.3	-2.3	18486.9	-604.7	-359357.0
	-1.8	4849.4	-2.6	18051.9	-667.4	-360761.8
	-2.2	4850.4	-2.6	17955.4	-679.5	-361032.4
	-2.5	4855.5	-2.9	17520.4	-742.2	-362437.2
	-2.1	4809.3	-0.8	21437.8	-198.7	-349732.4
	-2.4	4814.4	-1.0	21002.8	-261.4	-351137.3
	-2.7	4815.3	-1.1	20906.3	-273.5	-351407.8
	-3.0	4820.4	-1.3	20471.3	-336.2	-352812.7
253.	-6.5	260.0	1.0	24839.2	4.6	320133.6
	-6.8	265.1	0.7	24404.2	2.8	320019.0
	-7.2	266.1	0.7	24307.8	6.8	319990.1
	-7.5	271.2	0.4	23872.8	5.0	319875.5
	-7.0	224.9	2.5	27790.1	15.1	320908.3
	-7.3	230.1	2.3	27355.1	13.3	320793.6
	-7.7	231.0	2.2	27258.7	17.3	320764.7
	-8.0	236.1	2.0	26823.7	15.5	320650.1

	-1.5	336.4	-2.3	18486.9	-14.8	318476.5
	-1.8	341.5	-2.6	18051.9	-16.7	318361.9
	-2.2	342.5	-2.6	17955.4	-12.7	318332.9
	-2.5	347.6	-2.9	17520.4	-14.5	318218.3
	-2.1	301.4	-0.8	21437.8	-4.3	319251.1
	-2.4	306.5	-1.0	21002.8	-6.2	319136.5
	-2.7	307.5	-1.1	20906.3	-2.2	319107.6
	-3.0	312.6	-1.3	20471.3	-4.0	318992.9
505.	-6.5	-5374.5	1.0	24839.2	-242.3	-301918.8
	-6.8	-5369.4	0.7	24404.2	-183.3	-300743.2
	-7.2	-5368.4	0.7	24307.8	-166.7	-300530.3
	-7.5	-5363.3	0.4	23872.8	-107.7	-299354.7
	-7.0	-5409.5	2.5	27790.1	-627.3	-309994.1
	-7.3	-5404.4	2.3	27355.1	-568.3	-308818.5
	-7.7	-5403.4	2.2	27258.7	-551.7	-308605.5
	-8.0	-5398.3	2.0	26823.7	-492.7	-307430.0
	-1.5	-5298.0	-2.3	18486.9	577.8	-284269.6
	-1.8	-5292.9	-2.6	18051.9	636.8	-283094.1
	-2.2	-5291.9	-2.6	17955.4	653.4	-282881.1
	-2.5	-5286.8	-2.9	17520.4	712.4	-281705.5
	-2.1	-5333.1	-0.8	21437.8	192.8	-292344.9
	-2.4	-5327.9	-1.0	21002.8	251.8	-291169.4
	-2.7	-5327.0	-1.1	20906.3	268.4	-290956.4
	-3.0	-5321.9	-1.3	20471.3	327.4	-289780.8
Asta	219	nod1	107	108		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	6.7	4986.8	3.3	-52111.8	463.0	-744918.5
	7.6	4995.5	2.6	-52480.0	355.4	-746145.5
	8.2	4997.4	2.1	-52565.4	291.6	-746411.9
	9.2	5006.0	1.4	-52933.6	184.0	-747638.8
	6.2	4927.7	8.5	-49610.9	1177.5	-736533.0
	7.2	4936.4	7.7	-49979.2	1070.0	-737759.9
	7.8	4938.3	7.3	-50064.5	1006.1	-738026.4
	8.7	4946.9	6.5	-50432.8	898.6	-739253.3
	-15.9	5114.8	-7.6	-57497.5	-1046.6	-763106.4
	-15.0	5123.5	-8.4	-57865.8	-1154.2	-764333.4
	-14.4	5125.4	-8.8	-57951.1	-1218.0	-764599.8
	-13.4	5134.1	-9.6	-58319.4	-1325.6	-765826.8
	-16.4	5055.7	-2.4	-54996.6	-332.0	-754720.9
	-15.4	5064.4	-3.2	-55364.9	-439.6	-755947.8
	-14.8	5066.3	-3.6	-55450.2	-503.4	-756214.3
	-13.9	5074.9	-4.4	-55818.5	-611.0	-757441.2
140.	6.7	1622.9	3.3	-52111.8	-4.9	-282523.7
	7.6	1631.6	2.6	-52480.0	-3.5	-282538.5
	8.2	1633.5	2.1	-52565.4	-7.1	-282538.0
	9.2	1642.2	1.4	-52933.6	-5.7	-282552.7
	6.2	1563.8	8.5	-49610.9	-14.5	-282413.4
	7.2	1572.5	7.7	-49979.2	-13.1	-282428.2
	7.8	1574.4	7.3	-50064.5	-16.7	-282427.7
	8.7	1583.1	6.5	-50432.8	-15.3	-282442.4
	-15.9	1751.0	-7.6	-57497.5	16.2	-282790.3
	-15.0	1759.6	-8.4	-57865.8	17.6	-282805.1
	-14.4	1761.5	-8.8	-57951.1	14.0	-282804.5
	-13.4	1770.2	-9.6	-58319.4	15.4	-282819.3
	-16.4	1691.9	-2.4	-54996.6	6.6	-282680.0
	-15.4	1700.5	-3.2	-55364.9	8.0	-282694.8
	-14.8	1702.4	-3.6	-55450.2	4.4	-282694.2
	-13.9	1711.1	-4.4	-55818.5	5.8	-282709.0
280.	6.7	-1716.1	3.3	-52111.8	-473.9	-289337.2
	7.6	-1707.5	2.6	-52480.0	-363.6	-288139.9
	8.2	-1705.6	2.1	-52565.4	-304.6	-287871.5
	9.2	-1696.9	1.4	-52933.6	-194.2	-286674.1
	6.2	-1775.2	8.5	-49610.9	-1207.7	-297502.2
	7.2	-1766.6	7.7	-49979.2	-1097.4	-296304.8
	7.8	-1764.7	7.3	-50064.5	-1038.3	-296036.5
	8.7	-1756.0	6.5	-50432.8	-928.0	-294839.1
	-15.9	-1588.1	-7.6	-57497.5	1077.8	-271677.0
	-15.0	-1579.4	-8.4	-57865.8	1188.2	-270479.7
	-14.4	-1577.5	-8.8	-57951.1	1247.2	-270211.3
	-13.4	-1568.9	-9.6	-58319.4	1357.6	-269013.9
	-16.4	-1647.2	-2.4	-54996.6	344.1	-279842.0
	-15.4	-1638.5	-3.2	-55364.9	454.4	-278644.6
	-14.8	-1636.6	-3.6	-55450.2	513.4	-278376.3
	-13.9	-1628.0	-4.4	-55818.5	623.8	-277178.9
Asta	220	nod1	159	107		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	15.7	6728.9	0.6	-4023.8	302.3	-541798.4
	18.3	6733.2	0.5	-4313.9	220.7	-543863.1
	5.7	6734.0	0.5	-4369.2	221.8	-544278.3
	8.2	6738.3	0.3	-4659.2	140.3	-546343.1
	14.3	6700.0	1.7	-2060.8	818.2	-527714.0
	16.8	6704.2	1.5	-2350.9	736.7	-529778.8
	4.2	6705.1	1.5	-2406.2	737.7	-530194.0
	6.8	6709.3	1.4	-2696.2	656.2	-532258.7
	-24.4	6791.7	-1.6	-8245.0	-755.8	-572318.2
	-21.8	6796.0	-1.7	-8535.0	-837.3	-574383.0
	-34.5	6796.8	-1.7	-8590.3	-836.3	-574798.2
	-31.9	6801.1	-1.9	-8880.4	-917.8	-576862.9
	-25.9	6762.8	-0.5	-6281.9	-239.9	-558233.9

	-23.3	6767.0	-0.7	-6572.0	-321.4	-560298.6
	-36.0	6767.9	-0.7	-6627.3	-320.4	-560713.8
	-33.4	6772.1	-0.8	-6917.4	-401.9	-562778.6
420.	15.7	-549.7	0.6	-4023.8	41.5	755843.4
	18.3	-545.4	0.5	-4313.9	31.1	755561.7
	5.7	-544.6	0.5	-4369.2	27.6	755506.1
	8.2	-540.3	0.3	-4659.2	17.2	755224.3
	14.3	-578.6	1.7	-2060.8	109.6	757760.2
	16.8	-574.4	1.5	-2350.9	99.2	757478.5
	4.2	-573.5	1.5	-2406.2	95.7	757422.9
	6.8	-569.3	1.4	-2696.2	85.3	757141.2
	-24.4	-486.9	-1.6	-8245.0	-99.1	751699.8
	-21.8	-482.6	-1.7	-8535.0	-109.4	751418.1
	-34.5	-481.8	-1.7	-8590.3	-113.0	751362.5
	-31.9	-477.5	-1.9	-8880.4	-123.4	751080.8
	-25.9	-515.8	-0.5	-6281.9	-31.0	753616.7
	-23.3	-511.6	-0.7	-6572.0	-41.3	753335.0
	-36.0	-510.7	-0.7	-6627.3	-44.9	753279.4
840.	-33.4	-506.5	-0.8	-6917.4	-55.3	752997.7
	15.7	-7828.3	0.6	-4023.8	-220.2	-1003527.3
	18.3	-7824.0	0.5	-4313.9	-159.4	-1002026.0
	5.7	-7823.2	0.5	-4369.2	-165.7	-1001722.0
	8.2	-7818.9	0.3	-4659.2	-105.0	-1000220.6
	14.3	-7857.2	1.7	-2060.8	-599.9	-1013777.9
	16.8	-7853.0	1.5	-2350.9	-539.2	-1012276.6
	4.2	-7852.1	1.5	-2406.2	-545.4	-1011972.6
	6.8	-7847.9	1.4	-2696.2	-484.7	-1010471.3
	-24.4	-7765.5	-1.6	-8245.0	556.8	-981294.4
	-21.8	-7761.2	-1.7	-8535.0	617.5	-979793.1
	-34.5	-7760.4	-1.7	-8590.3	611.3	-979489.1
	-31.9	-7756.1	-1.9	-8880.4	672.0	-977987.7
	-25.9	-7794.4	-0.5	-6281.9	177.1	-991545.1
	-23.3	-7790.2	-0.7	-6572.0	237.8	-990043.7
	-36.0	-7789.3	-0.7	-6627.3	231.6	-989739.7
	-33.4	-7785.1	-0.8	-6917.4	292.3	-988238.4
Asta	221	nod1	160	106		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	31.6	6788.9	0.6	1616.7	299.3	-553817.0
	35.0	6791.0	0.4	1329.8	218.2	-554818.9
	18.3	6791.4	0.5	1277.8	224.5	-555008.8
	21.7	6793.6	0.3	990.9	143.4	-556010.7
	27.7	6774.5	1.7	3557.6	811.8	-546994.6
	31.1	6776.7	1.5	3270.7	730.7	-547996.5
	14.4	6777.1	1.5	3218.7	737.0	-548186.3
	17.8	6779.2	1.4	2931.8	656.0	-549188.3
	-37.7	6820.1	-1.6	-2555.6	-758.2	-568584.7
	-34.3	6822.2	-1.8	-2842.5	-839.3	-569586.7
	-51.0	6822.6	-1.7	-2894.5	-833.0	-569776.5
	-47.6	6824.7	-1.9	-3181.4	-914.0	-570778.5
	-41.7	6805.7	-0.5	-614.8	-245.7	-561762.3
	-38.3	6807.8	-0.7	-901.7	-326.8	-562764.3
	-55.0	6808.2	-0.7	-953.7	-320.4	-562954.1
	-51.6	6810.3	-0.8	-1240.6	-401.5	-563956.0
420.	31.6	-489.7	0.6	1616.7	41.7	769027.6
	35.0	-487.6	0.4	1329.8	32.3	768912.1
	18.3	-487.2	0.5	1277.8	27.8	768893.0
	21.7	-485.0	0.3	990.9	18.4	768777.6
	27.7	-504.1	1.7	3557.6	103.9	769808.4
	31.1	-501.9	1.5	3270.7	94.5	769692.9
	14.4	-501.5	1.5	3218.7	90.0	769673.8
	17.8	-499.4	1.4	2931.8	80.6	769558.4
	-37.7	-458.5	-1.6	-2555.6	-94.3	767352.2
	-34.3	-456.4	-1.8	-2842.5	-103.7	767236.7
	-51.0	-456.0	-1.7	-2894.5	-108.2	767217.7
	-47.6	-453.9	-1.9	-3181.4	-117.6	767102.2
	-41.7	-472.9	-0.5	-614.8	-32.1	768133.0
	-38.3	-470.8	-0.7	-901.7	-41.5	768017.5
	-55.0	-470.4	-0.7	-953.7	-46.0	767998.5
	-51.6	-468.3	-0.8	-1240.6	-55.4	767883.0
840.	31.6	-7768.3	0.6	1616.7	-219.0	-965140.5
	35.0	-7766.2	0.4	1329.8	-156.7	-964369.4
	18.3	-7765.8	0.5	1277.8	-167.6	-964217.7
	21.7	-7763.6	0.3	990.9	-105.3	-963446.7
	27.7	-7782.7	1.7	3557.6	-607.1	-970401.3
	31.1	-7780.5	1.5	3270.7	-544.8	-969630.2
	14.4	-7780.1	1.5	3218.7	-555.7	-969478.5
	17.8	-7778.0	1.4	2931.8	-493.4	-968707.5
	-37.7	-7737.1	-1.6	-2555.6	568.2	-953723.0
	-34.3	-7735.0	-1.8	-2842.5	630.5	-952952.0
	-51.0	-7734.6	-1.7	-2894.5	619.6	-952800.3
	-47.6	-7732.5	-1.9	-3181.4	681.9	-952029.3
	-41.7	-7751.5	-0.5	-614.8	180.1	-958983.8
	-38.3	-7749.4	-0.7	-901.7	242.4	-958212.8
	-55.0	-7749.0	-0.7	-953.7	231.5	-958061.1
	-51.6	-7746.9	-0.8	-1240.6	293.8	-957290.1
Asta	222	nod1	106	105		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	34.9	2361.4	3.3	5629.3	466.6	-670345.3
	37.8	2365.1	2.5	5317.1	352.9	-670859.9

	46.8	2365.9	1.9	5242.3	257.7	-670973.5
	49.7	2369.5	1.1	4930.1	144.0	-671488.1
	31.4	2336.5	8.6	7748.6	1211.2	-666819.7
	34.4	2340.1	7.8	7436.4	1097.4	-667334.3
	43.3	2340.9	7.2	7361.6	1002.3	-667447.9
	46.3	2344.5	6.4	7049.4	888.5	-667962.5
	-66.5	2415.8	-7.4	1068.9	-1027.9	-678026.0
	-63.6	2419.4	-8.2	756.7	-1141.6	-678540.6
	-54.6	2420.2	-8.8	681.9	-1236.8	-678654.1
	-51.7	2423.9	-9.6	369.7	-1350.5	-679168.7
	-70.0	2390.8	-2.1	3188.2	-283.3	-674500.4
	-67.1	2394.5	-2.9	2876.0	-397.0	-675015.0
	-58.1	2395.3	-3.5	2801.2	-492.2	-675128.5
	-55.2	2398.9	-4.3	2489.0	-605.9	-675643.1
140.	34.9	-64.8	3.3	5629.3	-2.7	-509577.8
	37.8	-61.1	2.5	5317.1	-2.7	-509582.0
	46.8	-60.3	1.9	5242.3	-8.7	-509587.2
	49.7	-56.7	1.1	4930.1	-8.7	-509591.4
	31.4	-89.7	8.6	7748.6	-1.4	-509546.5
	34.4	-86.1	7.8	7436.4	-1.4	-509550.7
	43.3	-85.3	7.2	7361.6	-7.4	-509555.9
	46.3	-81.7	6.4	7049.4	-7.4	-509560.1
	-66.5	-10.4	-7.4	1068.9	7.9	-509648.7
	-63.6	-6.8	-8.2	756.7	7.9	-509652.9
	-54.6	-6.0	-8.8	681.9	1.9	-509658.2
	-51.7	-2.3	-9.6	369.7	1.9	-509662.4
	-70.0	-35.4	-2.1	3188.2	9.3	-509617.4
	-67.1	-31.7	-2.9	2876.0	9.3	-509621.7
	-58.1	-30.9	-3.5	2801.2	3.3	-509626.9
	-55.2	-27.3	-4.3	2489.0	3.3	-509631.1
280.	34.9	-2491.0	3.3	5629.3	-464.8	-688478.9
	37.8	-2487.3	2.5	5317.1	-351.0	-687972.7
	46.8	-2486.5	1.9	5242.3	-266.6	-687868.5
	49.7	-2482.9	1.1	4930.1	-152.9	-687362.4
	31.4	-2515.9	8.6	7748.6	-1206.7	-691941.9
	34.4	-2512.3	7.8	7436.4	-1092.9	-691435.7
	43.3	-2511.5	7.2	7361.6	-1008.5	-691331.5
	46.3	-2507.9	6.4	7049.4	-894.8	-690825.4
	-66.5	-2436.6	-7.4	1068.9	1035.2	-680940.0
	-63.6	-2433.0	-8.2	756.7	1149.0	-680433.8
	-54.6	-2432.2	-8.8	681.9	1233.4	-680329.6
	-51.7	-2428.5	-9.6	369.7	1347.1	-679823.4
	-70.0	-2461.6	-2.1	3188.2	293.3	-684403.0
	-67.1	-2457.9	-2.9	2876.0	407.1	-683896.8
	-58.1	-2457.1	-3.5	2801.2	491.5	-683792.6
	-55.2	-2453.5	-4.3	2489.0	605.2	-683286.4
Asta	223	nod	105	167		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	9.2	7722.7	0.6	-47.0	228.2	-956875.3
	10.9	7725.0	0.5	-313.8	168.9	-957678.4
	10.5	7725.5	0.4	-371.5	161.5	-957842.6
	12.2	7727.8	0.3	-638.3	102.2	-958645.7
	8.2	7707.0	1.7	1762.3	607.9	-951374.6
	9.8	7709.3	1.5	1495.5	548.6	-952177.6
	9.5	7709.8	1.5	1437.8	541.2	-952341.8
	11.1	7712.1	1.3	1171.1	481.9	-953144.9
	-33.9	7756.9	-1.5	-3940.5	-556.4	-968869.8
	-32.2	7759.2	-1.7	-4207.2	-615.7	-969672.8
	-32.6	7759.7	-1.7	-4264.9	-623.1	-969837.0
	-30.9	7762.0	-1.9	-4531.7	-682.4	-970640.1
	-34.9	7741.2	-0.5	-2131.1	-176.7	-963369.0
	-33.3	7743.5	-0.7	-2397.9	-236.0	-964172.1
	-33.6	7744.0	-0.7	-2455.6	-243.4	-964336.3
	-32.0	7746.3	-0.8	-2722.4	-302.7	-965139.3
420.	9.2	417.7	0.6	-47.0	-40.7	752819.6
	10.9	420.0	0.5	-313.8	-31.2	752977.3
	10.5	420.5	0.4	-371.5	-26.5	753010.9
	12.2	422.7	0.3	-638.3	-17.0	753168.5
	8.2	402.0	1.7	1762.3	-103.2	751735.9
	9.8	404.3	1.5	1495.5	-93.7	751893.6
	9.5	404.8	1.5	1437.8	-89.0	751927.1
	11.1	407.1	1.3	1171.1	-79.5	752084.8
	-33.9	451.9	-1.5	-3940.5	92.5	755187.3
	-32.2	454.2	-1.7	-4207.2	102.0	755344.9
	-32.6	454.6	-1.7	-4264.9	106.8	755378.5
	-30.9	456.9	-1.9	-4531.7	116.2	755536.2
	-34.9	436.2	-0.5	-2131.1	30.1	754103.5
	-33.3	438.5	-0.7	-2397.9	39.6	754261.2
	-33.6	439.0	-0.7	-2455.6	44.3	754294.7
	-32.0	441.3	-0.8	-2722.4	53.8	754452.4
840.	9.2	-6893.3	0.6	-47.0	-309.2	-606845.4
	10.9	-6891.0	0.5	-313.8	-231.0	-605727.0
	10.5	-6890.5	0.4	-371.5	-214.6	-605495.7
	12.2	-6888.2	0.3	-638.3	-136.4	-604377.3
	8.2	-6909.0	1.7	1762.3	-813.9	-614513.7
	9.8	-6906.7	1.5	1495.5	-735.6	-613395.2
	9.5	-6906.2	1.5	1437.8	-719.2	-613164.0
	11.1	-6903.9	1.3	1171.1	-641.0	-612045.5
	-33.9	-6859.1	-1.5	-3940.5	741.6	-590115.7
	-32.2	-6856.8	-1.7	-4207.2	819.8	-588997.3

	-32.6	-6856.3	-1.7	-4264.9	836.3	-588766.0
	-30.9	-6854.0	-1.9	-4531.7	914.5	-587647.6
	-34.9	-6874.8	-0.5	-2131.1	237.0	-597784.0
	-33.3	-6872.5	-0.7	-2397.9	315.2	-596665.6
	-33.6	-6872.0	-0.7	-2455.6	331.6	-596434.3
	-32.0	-6869.7	-0.8	-2722.4	409.9	-595315.8
Asta	224	nod	103	166		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	39.6	7742.9	0.7	1510.8	238.2	-962295.3
	40.9	7742.9	0.5	1232.9	178.5	-962309.0
	43.7	7742.9	0.5	1170.9	178.6	-962306.4
	45.1	7742.9	0.3	893.0	118.9	-962320.1
	31.1	7742.7	1.7	3394.2	613.5	-962196.2
	32.5	7742.7	1.5	3116.3	553.8	-962209.9
	35.2	7742.7	1.5	3054.3	553.9	-962207.4
	36.6	7742.7	1.4	2776.4	494.2	-962221.1
	-54.5	7743.7	-1.6	-2538.9	-575.7	-962631.2
	-53.1	7743.7	-1.8	-2816.8	-635.3	-962644.9
	-50.4	7743.7	-1.8	-2878.8	-635.3	-962642.4
	-49.0	7743.7	-1.9	-3156.7	-694.9	-962656.1
	-63.0	7743.5	-0.5	-655.5	-200.4	-962532.2
	-61.6	7743.5	-0.7	-933.4	-260.1	-962545.9
	-58.9	7743.5	-0.7	-995.4	-260.0	-962543.3
	-57.5	7743.5	-0.9	-1273.3	-319.6	-962557.0
420.	39.6	464.3	0.7	1510.8	-41.8	761193.8
	40.9	464.3	0.5	1232.9	-32.1	761191.4
	43.7	464.3	0.5	1170.9	-24.9	761189.6
	45.1	464.3	0.3	893.0	-15.2	761187.3
	31.1	464.1	1.7	3394.2	-104.8	761209.1
	32.5	464.1	1.5	3116.3	-95.1	761206.7
	35.2	464.1	1.5	3054.3	-88.0	761204.9
	36.6	464.1	1.4	2776.4	-78.2	761202.6
	-54.5	465.1	-1.6	-2538.9	91.1	761230.6
	-53.1	465.1	-1.8	-2816.8	100.8	761228.2
	-50.4	465.1	-1.8	-2878.8	108.0	761226.4
	-49.0	465.1	-1.9	-3156.7	117.7	761224.0
	-63.0	464.9	-0.5	-655.5	28.0	761245.8
	-61.6	464.9	-0.7	-933.4	37.8	761243.5
	-58.9	464.9	-0.7	-995.4	44.9	761241.7
	-57.5	464.9	-0.9	-1273.3	54.6	761239.3
840.	39.6	-6814.3	0.7	1510.8	-320.7	-572305.0
	40.9	-6814.3	0.5	1232.9	-241.7	-572296.1
	43.7	-6814.3	0.5	1170.9	-229.2	-572297.4
	45.1	-6814.3	0.3	893.0	-150.1	-572288.4
	31.1	-6814.5	1.7	3394.2	-822.1	-572373.5
	32.5	-6814.5	1.5	3116.3	-743.0	-572364.5
	35.2	-6814.5	1.5	3054.3	-730.6	-572365.9
	36.6	-6814.5	1.4	2776.4	-651.5	-572356.9
	-54.5	-6813.5	-1.6	-2538.9	758.6	-571949.3
	-53.1	-6813.5	-1.8	-2816.8	837.7	-571940.3
	-50.4	-6813.5	-1.8	-2878.8	850.2	-571941.6
	-49.0	-6813.5	-1.9	-3156.7	929.3	-571932.7
	-63.0	-6813.7	-0.5	-655.5	257.3	-572017.8
	-61.6	-6813.7	-0.7	-933.4	336.3	-572008.8
	-58.9	-6813.7	-0.7	-995.4	348.8	-572010.1
	-57.5	-6813.7	-0.9	-1273.3	427.9	-572001.2
Asta	225	nod	104	103		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	77.5	2421.4	3.5	1456.0	500.3	-687847.7
	81.1	2421.3	2.8	1140.1	389.6	-687831.9
	96.6	2421.3	2.0	1056.4	272.6	-687834.5
	100.3	2421.1	1.2	740.5	161.9	-687818.7
	65.3	2422.4	8.7	3600.9	1223.8	-687950.9
	69.0	2422.3	7.9	3285.0	1113.1	-687935.1
	84.5	2422.3	7.1	3201.3	996.0	-687937.7
	88.1	2422.1	6.4	2885.4	885.3	-687921.9
	-102.1	2418.9	-7.3	-3147.1	-1024.4	-687552.1
	-98.5	2418.7	-8.1	-3463.0	-1135.1	-687536.3
	-83.0	2418.7	-8.9	-3546.7	-1252.2	-687538.8
	-79.3	2418.6	-9.7	-3862.6	-1362.9	-687523.0
	-114.3	2419.9	-2.2	-1002.2	-300.9	-687655.3
	-110.6	2419.7	-3.0	-1318.1	-411.6	-687639.5
	-95.1	2419.7	-3.7	-1401.8	-528.7	-687642.0
	-91.5	2419.6	-4.5	-1717.7	-639.4	-687626.2
140.	77.5	-4.8	3.5	1456.0	7.8	-518676.8
	81.1	-4.9	2.8	1140.1	8.1	-518682.2
	96.6	-4.9	2.0	1056.4	1.2	-518688.1
	100.3	-5.1	1.2	740.5	1.5	-518693.5
	65.3	-3.8	8.7	3600.9	5.9	-518639.0
	69.0	-3.9	7.9	3285.0	6.2	-518644.4
	84.5	-3.9	7.1	3201.3	-0.7	-518650.3
	88.1	-4.1	6.4	2885.4	-0.3	-518655.6
	-102.1	-7.3	-7.3	-3147.1	0.6	-518746.9
	-98.5	-7.5	-8.1	-3463.0	0.9	-518752.3
	-83.0	-7.5	-8.9	-3546.7	-5.9	-518758.2
	-79.3	-7.6	-9.7	-3862.6	-5.6	-518763.6
	-114.3	-6.3	-2.2	-1002.2	-1.3	-518709.1
	-110.6	-6.5	-3.0	-1318.1	-1.0	-518714.5
	-95.1	-6.5	-3.7	-1401.8	-7.8	-518720.4

280.	-91.5	-6.6	-4.5	-1717.7	-7.5	-518725.7
	77.5	-2431.0	3.5	1456.0	-492.7	-689184.7
	81.1	-2431.1	2.8	1140.1	-381.4	-689211.2
	96.6	-2431.1	2.0	1056.4	-276.7	-689217.8
	100.3	-2431.3	1.2	740.5	-165.4	-689244.4
	65.3	-2430.0	8.7	3600.9	-1220.0	-689005.9
	69.0	-2430.1	7.9	3285.0	-1108.7	-689032.4
	84.5	-2430.1	7.1	3201.3	-1004.0	-689039.0
	88.1	-2430.3	6.4	2885.4	-892.7	-689065.6
	-102.1	-2433.5	-7.3	-3147.1	1032.3	-689601.7
	-98.5	-2433.7	-8.1	-3463.0	1143.6	-689628.2
	-83.0	-2433.7	-8.9	-3546.7	1248.3	-689634.8
	-79.3	-2433.8	-9.7	-3862.6	1359.6	-689661.4
	-114.3	-2432.5	-2.2	-1002.2	305.0	-689422.9
	-110.6	-2432.7	-3.0	-1318.1	416.3	-689449.4
	-95.1	-2432.7	-3.7	-1401.8	521.0	-689456.0
	-91.5	-2432.8	-4.5	-1717.7	632.4	-689482.6
Asta PROGR. 0.	226	nod	161	104		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-49.4	6794.8	0.7	1184.6	327.9	-559272.8
	-48.5	6794.7	0.5	896.2	248.8	-559214.1
	-69.1	6794.6	0.5	848.1	262.1	-559178.0
	-68.2	6794.6	0.4	559.7	182.9	-559119.3
	-38.2	6795.4	1.7	3135.7	831.5	-559698.5
	-37.3	6795.3	1.6	2847.4	752.3	-559639.8
	-57.9	6795.2	1.6	2799.2	765.7	-559603.7
	-56.9	6795.1	1.4	2510.8	686.5	-559545.0
	46.2	6793.7	-1.7	-3011.2	-795.6	-558424.4
	47.2	6793.6	-1.8	-3299.6	-874.7	-558365.7
	26.6	6793.5	-1.8	-3347.7	-861.4	-558329.6
	27.5	6793.5	-2.0	-3636.1	-940.6	-558271.0
	57.5	6794.2	-0.6	-1060.1	-292.0	-558850.1
	58.4	6794.2	-0.8	-1348.5	-371.2	-558791.4
	37.8	6794.1	-0.7	-1396.6	-357.8	-558755.3
	38.7	6794.0	-0.9	-1685.0	-437.0	-558696.6
420.	-49.4	-483.8	0.7	1184.6	45.6	766029.1
	-48.5	-483.9	0.5	896.2	36.4	766054.9
	-69.1	-484.0	0.5	848.1	27.7	766067.1
	-68.2	-484.0	0.4	559.7	18.6	766092.9
	-38.2	-483.2	1.7	3135.7	108.0	765844.7
	-37.3	-483.3	1.6	2847.4	98.8	765870.5
	-57.9	-483.4	1.6	2799.2	90.1	765882.7
	-56.9	-483.5	1.4	2510.8	80.9	765908.5
	46.2	-484.9	-1.7	-3011.2	-93.6	766412.1
	47.2	-485.0	-1.8	-3299.6	-102.7	766437.9
	26.6	-485.1	-1.8	-3347.7	-111.4	766450.0
	27.5	-485.1	-2.0	-3636.1	-120.6	766475.9
	57.5	-484.4	-0.6	-1060.1	-31.2	766227.7
	58.4	-484.4	-0.8	-1348.5	-40.4	766253.5
	37.8	-484.5	-0.7	-1396.6	-49.1	766265.6
	38.7	-484.6	-0.9	-1685.0	-58.2	766291.4
840.	-49.4	-7762.4	0.7	1184.6	-246.0	-965670.3
	-48.5	-7762.5	0.5	896.2	-185.2	-965677.3
	-69.1	-7762.6	0.5	848.1	-197.4	-965689.7
	-68.2	-7762.6	0.4	559.7	-136.6	-965696.7
	-38.2	-7761.8	1.7	3135.7	-624.8	-965613.4
	-37.3	-7761.9	1.6	2847.4	-564.0	-965620.5
	-57.9	-7762.0	1.6	2799.2	-576.2	-965632.9
	-56.9	-7762.1	1.4	2510.8	-515.4	-965639.9
	46.2	-7763.5	-1.7	-3011.2	599.2	-965774.3
	47.2	-7763.6	-1.8	-3299.6	660.0	-965781.3
	26.6	-7763.7	-1.8	-3347.7	647.8	-965793.7
	27.5	-7763.7	-2.0	-3636.1	708.6	-965800.7
	57.5	-7763.0	-0.6	-1060.1	220.4	-965717.4
	58.4	-7763.0	-0.8	-1348.5	281.2	-965724.5
	37.8	-7763.1	-0.7	-1396.6	269.0	-965736.9
	38.7	-7763.2	-0.9	-1685.0	329.8	-965743.9
Asta PROGR. 0.	227	nod	162	101		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-25.8	6842.4	0.7	944.1	328.6	-589474.3
	-25.9	6840.1	0.5	667.2	252.8	-588311.8
	-29.2	6839.5	0.6	617.4	257.2	-588043.5
	-29.3	6837.2	0.4	340.6	181.3	-586881.0
	-22.1	6858.2	1.7	2817.5	824.1	-597415.5
	-22.1	6855.9	1.6	2540.7	748.2	-596252.9
	-25.5	6855.4	1.6	2490.9	752.6	-595984.7
	-25.5	6853.0	1.4	2214.0	676.8	-594822.1
	6.0	6808.8	-1.7	-3080.1	-794.1	-572638.9
	5.9	6806.5	-1.8	-3357.0	-869.9	-571476.3
	2.6	6805.9	-1.8	-3406.8	-865.5	-571208.1
	2.6	6803.6	-2.0	-3683.6	-941.4	-570045.6
	9.7	6824.6	-0.6	-1206.7	-298.6	-580580.0
	9.7	6822.3	-0.8	-1483.5	-374.5	-579417.5
	6.4	6821.8	-0.8	-1533.3	-370.1	-579149.2
	6.3	6819.5	-0.9	-1810.2	-445.9	-577986.7
420.	-25.8	-436.2	0.7	944.1	39.7	755816.9
	-25.9	-438.5	0.5	667.2	30.5	756005.5
	-29.2	-439.1	0.6	617.4	25.4	756049.6
	-29.3	-441.4	0.4	340.6	16.2	756238.2

	-22.1	-420.4	1.7	2817.5	102.5	754527.8
	-22.1	-422.7	1.6	2540.7	93.3	754716.4
	-25.5	-423.2	1.6	2490.9	88.2	754760.4
	-25.5	-425.6	1.4	2214.0	79.0	754949.0
	6.0	-469.8	-1.7	-3080.1	-93.0	758551.0
	5.9	-472.1	-1.8	-3357.0	-102.1	758739.7
	2.6	-472.7	-1.8	-3406.8	-107.3	758783.7
	2.6	-475.0	-2.0	-3683.6	-116.4	758972.3
	9.7	-454.0	-0.6	-1206.7	-30.2	757261.9
	9.7	-456.3	-0.8	-1483.5	-39.3	757450.5
	6.4	-456.8	-0.8	-1533.3	-44.5	757494.5
	6.3	-459.1	-0.9	-1810.2	-53.6	757683.1
840.	-25.8	-7714.8	0.7	944.1	-252.6	-955904.2
	-25.9	-7717.1	0.5	667.2	-195.0	-956689.5
	-29.2	-7717.7	0.6	617.4	-205.1	-956869.7
	-29.3	-7720.0	0.4	340.6	-147.5	-957655.0
	-22.1	-7699.0	1.7	2817.5	-622.4	-950541.4
	-22.1	-7701.3	1.6	2540.7	-564.9	-951326.7
	-25.5	-7701.8	1.6	2490.9	-574.9	-951506.9
	-25.5	-7704.2	1.4	2214.0	-517.4	-952292.2
	6.0	-7748.4	-1.7	-3080.1	606.7	-967271.4
	5.9	-7750.7	-1.8	-3357.0	664.3	-968056.7
	2.6	-7751.3	-1.8	-3406.8	654.2	-968236.9
	2.6	-7753.6	-2.0	-3683.6	711.8	-969022.2
	9.7	-7732.6	-0.6	-1206.7	236.9	-961908.6
	9.7	-7734.9	-0.8	-1483.5	294.5	-962693.9
	6.4	-7735.4	-0.8	-1533.3	284.4	-962874.1
	6.3	-7737.7	-0.9	-1810.2	342.0	-963659.4
Asta	228	nod	101	102		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-44.2	2446.5	3.6	1390.7	511.5	-683724.4
	-43.1	2442.3	2.8	1079.6	402.1	-683141.5
	-34.2	2441.3	2.5	1009.9	350.0	-683003.4
	-33.1	2437.2	1.7	698.7	240.6	-682420.4
	-33.3	2475.1	8.7	3500.2	1226.8	-687707.3
	-32.3	2470.9	8.0	3189.0	1117.3	-687124.3
	-23.4	2469.9	7.6	3119.4	1065.3	-686986.3
	-22.3	2465.7	6.8	2808.2	955.8	-686403.3
	3.5	2385.8	-8.0	-3132.3	-1116.6	-675269.2
	4.6	2381.6	-8.8	-3443.5	-1226.1	-674686.2
	13.5	2380.6	-9.1	-3513.1	-1278.2	-674548.2
	14.6	2376.4	-9.9	-3824.3	-1387.6	-673965.2
	14.4	2414.4	-2.8	-1022.8	-401.4	-679252.1
	15.4	2410.2	-3.6	-1334.0	-510.8	-678669.1
	24.4	2409.2	-4.0	-1403.6	-562.9	-678531.0
	25.4	2405.0	-4.8	-1714.8	-672.3	-677948.1
140.	-44.2	20.3	3.6	1390.7	9.8	-511044.8
	-43.1	16.1	2.8	1079.6	10.2	-511047.9
	-34.2	15.1	2.5	1009.9	6.2	-511049.9
	-33.1	11.0	1.7	698.7	6.6	-511053.0
	-33.3	48.9	8.7	3500.2	7.8	-511026.4
	-32.3	44.7	8.0	3189.0	8.3	-511029.5
	-23.4	43.7	7.6	3119.4	4.2	-511031.5
	-22.3	39.5	6.8	2808.2	4.7	-511034.6
	3.5	-40.4	-8.0	-3132.3	-5.5	-511088.8
	4.6	-44.6	-8.8	-3443.5	-5.0	-511091.9
	13.5	-45.6	-9.1	-3513.1	-9.1	-511093.9
	14.6	-49.8	-9.9	-3824.3	-8.6	-511097.0
	14.4	-11.8	-2.8	-1022.8	-7.5	-511070.5
	15.4	-16.0	-3.6	-1334.0	-7.0	-511073.5
	24.4	-17.0	-4.0	-1403.6	-11.1	-511075.6
	25.4	-21.2	-4.8	-1714.8	-10.6	-511078.6
280.	-44.2	-2405.9	3.6	1390.7	-501.9	-678033.9
	-43.1	-2410.1	2.8	1079.6	-391.5	-678623.1
	-34.2	-2411.1	2.5	1009.9	-345.8	-678765.0
	-33.1	-2415.2	1.7	698.7	-235.4	-679354.1
	-33.3	-2377.3	8.7	3500.2	-1221.0	-674014.3
	-32.3	-2381.5	8.0	3189.0	-1110.6	-674603.4
	-23.4	-2382.5	7.6	3119.4	-1065.0	-674745.4
	-22.3	-2386.7	6.8	2808.2	-954.6	-675334.5
	3.5	-2466.6	-8.0	-3132.3	1113.8	-686576.0
	4.6	-2470.8	-8.8	-3443.5	1224.1	-687165.1
	13.5	-2471.8	-9.1	-3513.1	1269.8	-687307.0
	14.6	-2476.0	-9.9	-3824.3	1380.2	-687896.2
	14.4	-2438.0	-2.8	-1022.8	394.6	-682556.4
	15.4	-2442.2	-3.6	-1334.0	505.0	-683145.5
	24.4	-2443.2	-4.0	-1403.6	550.7	-683287.4
	25.4	-2447.4	-4.8	-1714.8	661.1	-683876.5
Asta	229	nod	102	165		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	4.8	7725.8	0.7	1354.2	258.7	-960824.1
	5.0	7723.6	0.5	1090.6	202.2	-960048.8
	3.3	7723.0	0.5	1032.0	189.2	-959868.1
	3.6	7720.8	0.4	768.4	132.8	-959092.8
	0.7	7741.4	1.7	3139.6	622.8	-966111.7
	1.0	7739.1	1.6	2876.0	566.3	-965336.4
	-0.8	7738.6	1.5	2817.4	553.3	-965155.7
	-0.5	7736.3	1.4	2553.8	496.9	-964380.4
	-22.2	7692.9	-1.6	-2487.3	-583.2	-949607.0

	-21.9	7690.6	-1.8	-2750.9	-639.7	-948831.7
	-23.6	7690.1	-1.8	-2809.5	-652.7	-948651.1
	-23.4	7687.8	-2.0	-3073.1	-709.1	-947875.7
	-26.2	7708.4	-0.6	-701.9	-219.1	-954894.7
	-25.9	7706.1	-0.7	-965.5	-275.6	-954119.4
	-27.7	7705.6	-0.8	-1024.1	-288.6	-953938.7
	-27.4	7703.3	-0.9	-1287.7	-345.0	-953163.4
420.	4.8	447.2	0.7	1354.2	-38.5	755522.2
	5.0	445.0	0.5	1090.6	-29.1	755341.4
	3.3	444.4	0.5	1032.0	-26.6	755299.4
	3.6	442.2	0.4	768.4	-17.2	755118.7
	0.7	462.8	1.7	3139.6	-101.7	756756.2
	1.0	460.5	1.6	2876.0	-92.3	756575.4
	-0.8	460.0	1.5	2817.4	-89.8	756533.4
	-0.5	457.7	1.4	2553.8	-80.4	756352.6
	-22.2	414.3	-1.6	-2487.3	93.6	752903.5
	-21.9	412.0	-1.8	-2750.9	103.0	752722.7
	-23.6	411.5	-1.8	-2809.5	105.5	752680.7
	-23.4	409.2	-2.0	-3073.1	114.9	752500.0
	-26.2	429.8	-0.6	-701.9	30.4	754137.4
	-25.9	427.5	-0.7	-965.5	39.8	753956.7
	-27.7	427.0	-0.8	-1024.1	42.3	753914.7
	-27.4	424.7	-0.9	-1287.7	51.7	753733.9
840.	4.8	-6831.4	0.7	1354.2	-334.5	-585143.9
	5.0	-6833.6	0.5	1090.6	-259.2	-586280.7
	3.3	-6834.2	0.5	1032.0	-241.2	-586545.4
	3.6	-6836.4	0.4	768.4	-166.0	-587682.2
	0.7	-6815.8	1.7	3139.6	-825.1	-577388.3
	1.0	-6818.1	1.6	2876.0	-749.8	-578525.1
	-0.8	-6818.6	1.5	2817.4	-731.8	-578789.9
	-0.5	-6820.9	1.4	2553.8	-656.6	-579926.7
	-22.2	-6864.3	-1.6	-2487.3	769.3	-601598.4
	-21.9	-6866.6	-1.8	-2750.9	844.5	-602735.2
	-23.6	-6867.1	-1.8	-2809.5	862.5	-602999.9
	-23.4	-6869.4	-2.0	-3073.1	937.8	-604136.7
	-26.2	-6848.8	-0.6	-701.9	278.7	-593842.8
	-25.9	-6851.1	-0.7	-965.5	353.9	-594979.6
	-27.7	-6851.6	-0.8	-1024.1	372.0	-595244.3
	-27.4	-6853.9	-0.9	-1287.7	447.2	-596381.1
Asta	230	nod1	95	94		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-37.7	6162.5	0.8	7757.5	251.7	-576563.9
	-37.4	6157.9	0.6	7308.9	199.4	-575145.8
	-30.6	6156.9	0.5	7206.8	175.0	-574832.6
	-30.2	6152.3	0.4	6758.2	122.7	-573414.5
	-28.9	6193.6	1.8	10794.4	586.4	-586227.1
	-28.5	6189.1	1.6	10345.8	534.1	-584809.1
	-21.7	6188.0	1.6	10243.7	509.6	-584495.8
	-21.4	6183.5	1.4	9795.1	457.3	-583077.8
	12.4	6096.1	-1.6	1227.4	-526.6	-555995.4
	12.8	6091.5	-1.8	778.9	-578.9	-554577.3
	19.6	6090.5	-1.9	676.7	-603.4	-554264.1
	19.9	6085.9	-2.0	228.1	-655.7	-552846.0
	21.3	6127.3	-0.6	4264.3	-192.0	-565658.6
	21.7	6122.7	-0.7	3815.8	-244.3	-564240.5
	28.4	6121.7	-0.8	3713.6	-268.7	-563927.3
	28.8	6117.1	-1.0	3265.0	-321.0	-562509.2
333.	-37.7	248.9	0.8	7757.5	-5.1	489331.7
	-37.4	244.4	0.6	7308.9	-3.8	489228.5
	-30.6	243.4	0.5	7206.8	-3.5	489204.6
	-30.2	238.8	0.4	6758.2	-2.2	489101.4
	-28.9	280.1	1.8	10794.4	-14.4	490033.0
	-28.5	275.5	1.6	10345.8	-13.0	489929.8
	-21.7	274.5	1.6	10243.7	-12.8	489905.9
	-21.4	270.0	1.4	9795.1	-11.4	489802.7
	12.4	182.6	-1.6	1227.4	11.8	487835.3
	12.8	178.0	-1.8	778.9	13.1	487732.1
	19.6	177.0	-1.9	676.7	13.4	487708.2
	19.9	172.4	-2.0	228.1	14.7	487605.0
	21.3	213.8	-0.6	4264.3	2.6	488536.6
	21.7	209.2	-0.7	3815.8	3.9	488433.4
	28.4	208.2	-0.8	3713.6	4.2	488409.5
	28.8	203.6	-1.0	3265.0	5.5	488306.3
665.	-37.7	-5664.6	0.8	7757.5	-259.7	-411015.5
	-37.4	-5669.1	0.6	7308.9	-204.7	-412639.9
	-30.6	-5670.2	0.5	7206.8	-179.8	-413000.9
	-30.2	-5674.7	0.4	6758.2	-124.8	-414625.4
	-28.9	-5633.4	1.8	10794.4	-612.7	-399949.6
	-28.5	-5638.0	1.6	10345.8	-557.8	-401574.1
	-21.7	-5639.0	1.6	10243.7	-532.9	-401935.1
	-21.4	-5643.6	1.4	9795.1	-477.9	-403559.5
	12.4	-5730.9	-1.6	1227.4	547.9	-434576.8
	12.8	-5735.5	-1.8	778.9	602.9	-436201.2
	19.6	-5736.5	-1.9	676.7	627.8	-436562.2
	19.9	-5741.1	-2.0	228.1	682.8	-438186.7
	21.3	-5699.8	-0.6	4264.3	194.9	-423510.9
	21.7	-5704.3	-0.7	3815.8	249.8	-425135.4
	28.4	-5705.3	-0.8	3713.6	274.7	-425496.4
	28.8	-5709.9	-1.0	3265.0	329.7	-427120.8

Asta PROGR. 0.	231	nod	98	95		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-5.7	2527.8	3.6	1532.2	499.7	-448009.6
	-6.0	2518.1	2.7	1172.9	385.3	-446658.3
	0.0	2516.0	2.4	1096.7	337.7	-446361.6
	-0.2	2506.3	1.6	737.4	223.2	-445010.3
	-4.5	2594.0	9.0	3967.0	1268.2	-457218.7
	-4.7	2584.3	8.2	3607.7	1153.7	-455867.4
	1.3	2582.1	7.9	3531.4	1106.1	-455570.7
	1.0	2572.4	7.1	3172.2	991.6	-454219.4
	-2.5	2387.0	-8.3	-3690.2	-1158.6	-428398.6
	-2.8	2377.3	-9.1	-4049.5	-1273.0	-427047.3
	3.2	2375.2	-9.4	-4125.7	-1320.7	-426750.6
	3.0	2365.5	-10.2	-4485.0	-1435.1	-425399.3
	-1.3	2453.1	-2.8	-1255.4	-390.2	-437607.7
	-1.6	2443.4	-3.6	-1614.7	-504.6	-436256.4
	4.5	2441.3	-3.9	-1691.0	-552.2	-435959.7
	4.2	2431.6	-4.8	-2050.3	-666.7	-434608.4
140.	-5.7	37.9	3.6	1532.2	2.0	-268406.8
	-6.0	28.2	2.7	1172.9	2.3	-268413.9
	0.0	26.1	2.4	1096.7	-3.6	-268416.7
	-0.2	16.4	1.6	737.4	-3.3	-268423.9
	-4.5	104.1	9.0	3967.0	1.7	-268357.1
	-4.7	94.4	8.2	3607.7	2.0	-268364.2
	1.3	92.2	7.9	3531.4	-3.9	-268367.0
	1.0	82.5	7.1	3172.2	-3.6	-268374.2
	-2.5	-102.9	-8.3	-3690.2	4.0	-268511.4
	-2.8	-112.6	-9.1	-4049.5	4.3	-268518.5
	3.2	-114.7	-9.4	-4125.7	-1.6	-268521.3
	3.0	-124.4	-10.2	-4485.0	-1.3	-268528.5
	-1.3	-36.8	-2.8	-1255.4	3.7	-268461.7
	-1.6	-46.5	-3.6	-1614.7	4.0	-268468.8
	4.5	-48.6	-3.9	-1691.0	-1.9	-268471.6
	4.2	-58.3	-4.8	-2050.3	-1.6	-268478.8
280.	-5.7	-2452.0	3.6	1532.2	-496.6	-437390.1
	-6.0	-2461.7	2.7	1172.9	-381.5	-438755.6
	0.0	-2463.8	2.4	1096.7	-343.2	-439057.8
	-0.2	-2473.5	1.6	737.4	-228.1	-440423.4
	-4.5	-2385.8	9.0	3967.0	-1265.7	-428081.6
	-4.7	-2395.5	8.2	3607.7	-1150.6	-429447.1
	1.3	-2397.7	7.9	3531.4	-1112.2	-429749.3
	1.0	-2407.4	7.1	3172.2	-997.1	-431114.9
	-2.5	-2592.8	-8.3	-3690.2	1164.8	-457210.2
	-2.8	-2602.5	-9.1	-4049.5	1279.9	-458575.8
	3.2	-2604.6	-9.4	-4125.7	1318.3	-458878.0
	3.0	-2614.3	-10.2	-4485.0	1433.4	-460243.5
	-1.3	-2526.7	-2.8	-1255.4	395.8	-447901.7
	-1.6	-2536.4	-3.6	-1614.7	510.9	-449267.3
	4.5	-2538.5	-3.9	-1691.0	549.3	-449569.5
	4.2	-2548.2	-4.8	-2050.3	664.4	-450935.0
Asta PROGR. 0.	232	nod	99	98		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-1.1	5706.9	0.7	-4074.3	232.9	-426174.0
	-1.4	5702.2	0.5	-4488.1	176.6	-424511.6
	4.6	5701.2	0.5	-4561.4	180.6	-424144.0
	4.3	5696.5	0.4	-4975.2	124.3	-422481.6
	-1.9	5738.7	1.8	-1275.4	596.0	-437506.5
	-2.3	5734.0	1.6	-1689.2	539.7	-435844.2
	3.8	5733.0	1.6	-1762.5	543.7	-435476.5
	3.4	5728.4	1.4	-2176.3	487.4	-433814.2
	-11.1	5639.2	-1.7	-10085.6	-572.8	-402062.1
	-11.5	5634.5	-1.9	-10499.5	-629.0	-400399.8
	-5.4	5633.5	-1.8	-10572.7	-625.0	-400032.1
	-5.8	5628.8	-2.0	-10986.6	-681.3	-398369.8
	-11.9	5671.0	-0.6	-7286.7	-209.7	-413394.7
	-12.3	5666.4	-0.8	-7700.5	-266.0	-411732.4
	-6.3	5665.3	-0.8	-7773.8	-261.9	-411364.7
	-6.6	5660.7	-0.9	-8187.6	-318.2	-409702.4
333.	-1.1	-206.6	0.7	-4074.3	5.4	488249.7
	-1.4	-211.3	0.5	-4488.1	4.2	488360.3
	4.6	-212.3	0.5	-4561.4	1.6	488385.2
	4.3	-217.0	0.4	-4975.2	0.4	488495.8
	-1.9	-174.8	1.8	-1275.4	13.6	487494.8
	-2.3	-179.5	1.6	-1689.2	12.4	487605.5
	3.8	-180.5	1.6	-1762.5	9.8	487630.4
	3.4	-185.2	1.4	-2176.3	8.6	487741.0
	-11.1	-274.3	-1.7	-10085.6	-10.6	489854.1
	-11.5	-279.0	-1.9	-10499.5	-11.8	489964.8
	-5.4	-280.0	-1.8	-10572.7	-14.4	489989.7
	-5.8	-284.7	-2.0	-10986.6	-15.6	490100.3
	-11.9	-242.5	-0.6	-7286.7	-2.4	489099.3
	-12.3	-247.2	-0.8	-7700.5	-3.6	489209.9
	-6.3	-248.2	-0.8	-7773.8	-6.2	489234.8
	-6.6	-252.9	-0.9	-8187.6	-7.4	489345.5
665.	-1.1	-6120.1	0.7	-4074.3	-223.7	-563569.4
	-1.4	-6124.8	0.5	-4488.1	-169.8	-565010.4
	4.6	-6125.8	0.5	-4561.4	-176.6	-565328.3
	4.3	-6130.5	0.4	-4975.2	-122.7	-566769.4
	-1.9	-6088.3	1.8	-1275.4	-570.4	-553746.5
	-2.3	-6093.0	1.6	-1689.2	-516.5	-555187.5

	3.8	-6094.0	1.6	-1762.5	-523.3	-555505.4
	3.4	-6098.7	1.4	-2176.3	-469.4	-556946.5
	-11.1	-6187.8	-1.7	-10085.6	550.8	-584472.3
	-11.5	-6192.5	-1.9	-10499.5	604.7	-585913.3
	-5.4	-6193.5	-1.8	-10572.7	597.9	-586231.2
	-5.8	-6198.2	-2.0	-10986.6	651.8	-587672.3
	-11.9	-6156.0	-0.6	-7286.7	204.1	-574649.4
	-12.3	-6160.7	-0.8	-7700.5	258.0	-576090.4
	-6.3	-6161.7	-0.8	-7773.8	251.2	-576408.3
	-6.6	-6166.4	-0.9	-8187.6	305.1	-577849.4
Asta	233	nod1	100	97		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-12.0	5536.7	0.9	1466.1	324.9	-304286.5
	-11.6	5528.0	0.7	1158.9	248.0	-300976.6
	-15.4	5526.2	0.7	1102.2	246.4	-300272.3
	-15.0	5517.5	0.5	795.0	169.4	-296962.4
	-9.6	5595.5	2.2	3543.6	832.3	-326813.9
	-9.2	5586.9	2.0	3236.4	755.4	-323504.0
	-13.0	5585.0	2.0	3179.6	753.8	-322799.7
	-12.6	5576.4	1.8	2872.4	676.8	-319489.8
	3.9	5411.1	-2.1	-2996.5	-787.7	-256225.5
	4.3	5402.4	-2.3	-3303.6	-864.7	-252915.5
	0.6	5400.6	-2.3	-3360.4	-866.3	-252211.3
	1.0	5391.9	-2.5	-3667.6	-943.2	-248901.4
	6.3	5469.9	-0.8	-919.0	-280.3	-278752.9
	6.7	5461.3	-1.0	-1226.2	-357.3	-275443.0
	2.9	5459.4	-1.0	-1283.0	-358.9	-274738.7
	3.3	5450.8	-1.2	-1590.1	-435.8	-271428.8
333.	-12.0	-493.2	0.9	1466.1	33.7	534197.6
	-11.6	-501.8	0.7	1158.9	25.9	534631.7
	-15.4	-503.7	0.7	1102.2	23.8	534724.5
	-15.0	-512.3	0.5	795.0	16.1	535158.6
	-9.6	-434.3	2.2	3543.6	85.1	531241.6
	-9.2	-443.0	2.0	3236.4	77.3	531675.8
	-13.0	-444.8	2.0	3179.6	75.2	531768.5
	-12.6	-453.4	1.8	2872.4	67.5	532202.7
	3.9	-618.7	-2.1	-2996.5	-78.8	540502.5
	4.3	-627.4	-2.3	-3303.6	-86.6	540936.6
	0.6	-629.2	-2.3	-3360.4	-88.7	541029.4
	1.0	-637.9	-2.5	-3667.6	-96.4	541463.5
	6.3	-559.9	-0.8	-919.0	-27.4	537546.5
	6.7	-568.5	-1.0	-1226.2	-35.2	537980.7
	2.9	-570.4	-1.0	-1283.0	-37.3	538073.4
	3.3	-579.0	-1.2	-1590.1	-45.0	538507.6
665.	-12.0	-6523.1	0.9	1466.1	-257.9	-632255.9
	-11.6	-6531.8	0.7	1158.9	-196.5	-634697.5
	-15.4	-6533.6	0.7	1102.2	-198.4	-635216.3
	-15.0	-6542.3	0.5	795.0	-137.0	-637657.9
	-9.6	-6464.3	2.2	3543.6	-662.5	-615640.4
	-9.2	-6472.9	2.0	3236.4	-601.0	-618082.0
	-13.0	-6474.7	2.0	3179.6	-603.0	-618600.8
	-12.6	-6483.4	1.8	2872.4	-541.6	-621042.4
	3.9	-6648.7	-2.1	-2996.5	629.7	-667707.1
	4.3	-6657.4	-2.3	-3303.6	691.2	-670148.8
	0.6	-6659.2	-2.3	-3360.4	689.2	-670667.5
	1.0	-6667.8	-2.5	-3667.6	750.7	-673109.1
	6.3	-6589.8	-0.8	-919.0	225.2	-651091.6
	6.7	-6598.5	-1.0	-1226.2	286.6	-653533.2
	2.9	-6600.3	-1.0	-1283.0	284.6	-654052.0
	3.3	-6609.0	-1.2	-1590.1	346.1	-656493.6
Asta	234	nod1	97	96		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	8.6	2600.8	3.2	1396.9	445.2	-475328.2
	8.2	2586.1	2.4	1066.2	340.9	-473259.8
	9.4	2583.0	2.2	998.2	309.1	-472819.1
	8.9	2568.2	1.5	667.5	204.9	-470750.7
	6.2	2701.2	8.2	3635.2	1145.6	-489404.3
	5.7	2686.4	7.4	3304.6	1041.3	-487335.9
	7.0	2683.3	7.2	3236.5	1009.5	-486895.2
	6.5	2668.6	6.5	2905.9	905.3	-484826.8
	-7.4	2386.8	-7.6	-3408.8	-1061.4	-445297.6
	-7.9	2372.1	-8.3	-3739.4	-1165.6	-443229.3
	-6.7	2368.9	-8.5	-3807.5	-1197.4	-442788.5
	-7.1	2354.2	-9.3	-4138.1	-1301.6	-440720.1
	-9.9	2487.1	-2.6	-1170.4	-361.0	-459373.7
	-10.4	2472.4	-3.3	-1501.1	-465.2	-457305.4
	-9.1	2469.3	-3.5	-1569.1	-497.0	-456864.6
	-9.6	2454.5	-4.3	-1899.8	-601.2	-454796.2
140.	8.6	61.9	3.2	1396.9	5.7	-288932.7
	8.2	47.2	2.4	1066.2	5.9	-288928.3
	9.4	44.1	2.2	998.2	0.1	-288925.6
	8.9	29.3	1.5	667.5	0.4	-288921.2
	6.2	162.3	8.2	3635.2	4.3	-288960.7
	5.7	147.5	7.4	3304.6	4.6	-288956.3
	7.0	144.4	7.2	3236.5	-1.2	-288953.6
	6.5	129.7	6.5	2905.9	-1.0	-288949.2
	-7.4	-152.1	-7.6	-3408.8	1.0	-288867.8
	-7.9	-166.8	-8.3	-3739.4	1.3	-288863.4
	-6.7	-170.0	-8.5	-3807.5	-4.5	-288860.6

	-7.1	-184.7	-9.3	-4138.1	-4.3	-288856.2
	-9.9	-51.8	-2.6	-1170.4	-0.3	-288895.8
	-10.4	-66.5	-3.3	-1501.1	-0.1	-288891.4
	-9.1	-69.6	-3.5	-1569.1	-5.9	-288888.6
	-9.6	-84.4	-4.3	-1899.8	-5.6	-288884.2
280.	8.6	-2477.0	3.2	1396.9	-440.1	-457982.5
	8.2	-2491.7	2.4	1066.2	-335.3	-460042.1
	9.4	-2494.8	2.2	998.2	-312.3	-460477.7
	8.9	-2509.6	1.5	667.5	-207.5	-462537.2
	6.2	-2376.6	8.2	3635.2	-1143.2	-443962.4
	5.7	-2391.4	7.4	3304.6	-1038.4	-446022.0
	7.0	-2394.5	7.2	3236.5	-1015.4	-446457.5
	6.5	-2409.2	6.5	2905.9	-910.6	-448517.1
	-7.4	-2691.0	-7.6	-3408.8	1066.8	-487884.3
	-7.9	-2705.7	-8.3	-3739.4	1171.6	-489943.9
	-6.7	-2708.9	-8.5	-3807.5	1194.6	-490379.5
	-7.1	-2723.6	-9.3	-4138.1	1299.4	-492439.0
	-9.9	-2590.7	-2.6	-1170.4	363.7	-473864.2
	-10.4	-2605.4	-3.3	-1501.1	468.4	-475923.8
	-9.1	-2608.5	-3.5	-1569.1	491.5	-476359.3
	-9.6	-2623.3	-4.3	-1899.8	596.3	-478418.9
Asta	235	nod1	96	93		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-26.9	6596.0	0.9	1114.5	275.6	-652892.8
	-27.0	6587.3	0.7	809.5	215.8	-650438.7
	-16.7	6585.4	0.6	742.1	189.1	-649911.1
	-16.8	6576.7	0.4	437.1	129.3	-647456.9
	-21.3	6655.1	2.3	3178.3	671.3	-669592.7
	-21.4	6646.4	2.1	2873.3	611.5	-667138.6
	-11.1	6644.6	2.0	2805.9	584.7	-666611.0
	-11.2	6635.9	1.8	2500.9	525.0	-664156.8
	2.3	6469.8	-2.1	-3324.9	-611.7	-617254.4
	2.2	6461.1	-2.3	-3629.9	-671.4	-614800.2
	12.5	6459.2	-2.4	-3697.3	-698.2	-614272.6
	12.4	6450.5	-2.6	-4002.3	-758.0	-611818.5
	7.9	6528.9	-0.7	-1261.1	-216.0	-633954.3
	7.8	6520.2	-0.9	-1566.1	-275.7	-631500.1
	18.1	6518.3	-1.0	-1633.5	-302.5	-630972.5
	18.0	6509.6	-1.2	-1938.5	-362.3	-628518.4
333.	-26.9	566.0	0.9	1114.5	-33.5	537789.9
	-27.0	557.3	0.7	809.5	-25.7	537353.8
	-16.7	555.5	0.6	742.1	-24.2	537257.9
	-16.8	546.8	0.4	437.1	-16.4	536821.8
	-21.3	625.2	2.3	3178.3	-84.8	540755.5
	-21.4	616.5	2.1	2873.3	-76.9	540319.5
	-11.1	614.6	2.0	2805.9	-75.4	540223.5
	-11.2	605.9	1.8	2500.9	-67.6	539787.4
	2.3	439.8	-2.1	-3324.9	79.4	531454.9
	2.2	431.1	-2.3	-3629.9	87.2	531018.9
	12.5	429.2	-2.4	-3697.3	88.7	530922.9
	12.4	420.5	-2.6	-4002.3	96.6	530486.9
	7.9	498.9	-0.7	-1261.1	28.2	534420.6
	7.8	490.3	-0.9	-1566.1	36.0	533984.5
	18.1	488.4	-1.0	-1633.5	37.5	533888.6
	18.0	479.7	-1.2	-1938.5	45.3	533452.5
665.	-26.9	-5463.8	0.9	1114.5	-342.5	-276465.1
	-27.0	-5472.5	0.7	809.5	-267.1	-279791.4
	-16.7	-5474.4	0.6	742.1	-237.5	-280510.8
	-16.8	-5483.0	0.4	437.1	-162.1	-283837.1
	-21.3	-5404.6	2.3	3178.3	-840.7	-253833.8
	-21.4	-5413.3	2.1	2873.3	-765.3	-257160.1
	-11.1	-5415.2	2.0	2805.9	-735.7	-257879.6
	-11.2	-5423.9	1.8	2500.9	-660.3	-261205.9
	2.3	-5590.0	-2.1	-3324.9	770.6	-324773.3
	2.2	-5598.7	-2.3	-3629.9	846.0	-328099.6
	12.5	-5600.6	-2.4	-3697.3	875.6	-328819.1
	12.4	-5609.3	-2.6	-4002.3	951.0	-332145.4
	7.9	-5530.9	-0.7	-1261.1	272.4	-302142.1
	7.8	-5539.6	-0.9	-1566.1	347.8	-305468.4
	18.1	-5541.4	-1.0	-1633.5	377.4	-306187.9
	18.0	-5550.1	-1.2	-1938.5	452.8	-309514.2
Asta	236	nod1	169	116		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-9.7	4189.9	2.0	-7883.3	643.1	-156137.7
	-11.0	4207.4	1.5	-8224.0	489.0	-161709.0
	-11.0	4210.9	1.4	-8293.9	458.8	-162841.6
	-12.3	4228.4	0.9	-8634.5	304.6	-168412.9
	-9.2	4070.5	5.1	-5576.5	1673.4	-118139.2
	-10.5	4088.0	4.6	-5917.1	1519.3	-123710.5
	-10.5	4091.6	4.5	-5987.1	1489.1	-124843.1
	-11.8	4109.1	4.1	-6327.7	1335.0	-130414.4
	5.2	4448.0	-4.8	-12846.0	-1562.5	-238335.4
	3.9	4465.5	-5.2	-13186.6	-1716.7	-243906.7
	3.9	4469.0	-5.3	-13256.5	-1746.9	-245039.3
	2.6	4486.5	-5.8	-13597.2	-1901.0	-250610.6
	5.7	4328.7	-1.6	-10539.2	-532.2	-200336.9
	4.4	4346.2	-2.1	-10879.8	-686.4	-205908.2
	4.4	4349.7	-2.2	-10949.7	-716.5	-207040.9
	3.1	4367.2	-2.7	-11290.3	-870.7	-212612.1

285.	-9.7	-376.9	2.0	-7883.3	83.8	384571.5
	-11.0	-359.4	1.5	-8224.0	63.9	383987.3
	-11.0	-355.9	1.4	-8293.9	61.2	383869.5
	-12.3	-338.4	0.9	-8634.5	41.3	383285.3
	-9.2	-496.3	5.1	-5576.5	218.5	388559.9
	-10.5	-478.8	4.6	-5917.1	198.6	387975.6
	-10.5	-475.2	4.5	-5987.1	195.9	387857.9
	-11.8	-457.7	4.1	-6327.7	176.0	387273.6
	5.2	-118.8	-4.8	-12846.0	-205.8	375940.0
	3.9	-101.3	-5.2	-13186.6	-225.7	375355.8
	3.9	-97.8	-5.3	-13256.5	-228.4	375238.0
	2.6	-80.3	-5.8	-13597.2	-248.3	374653.8
	5.7	-238.1	-1.6	-10539.2	-71.0	379928.3
	4.4	-220.6	-2.1	-10879.8	-90.9	379344.1
	4.4	-217.1	-2.2	-10949.7	-93.6	379226.3
	3.1	-199.6	-2.7	-11290.3	-113.5	378642.1
570.	-9.7	-4831.9	2.0	-7883.3	-475.6	-360372.8
	-11.0	-4814.4	1.5	-8224.0	-361.3	-355970.0
	-11.0	-4810.9	1.4	-8293.9	-336.5	-355072.9
	-12.3	-4793.4	0.9	-8634.5	-222.1	-350670.1
	-9.2	-4951.2	5.1	-5576.5	-1236.4	-390394.6
	-10.5	-4933.7	4.6	-5917.1	-1122.1	-385991.9
	-10.5	-4930.2	4.5	-5987.1	-1097.3	-385094.7
	-11.8	-4912.7	4.1	-6327.7	-982.9	-380692.0
	5.2	-4573.8	-4.8	-12846.0	1151.0	-295438.1
	3.9	-4556.3	-5.2	-13186.6	1265.3	-291035.4
	3.9	-4552.7	-5.3	-13256.5	1290.2	-290138.2
	2.6	-4535.2	-5.8	-13597.2	1404.5	-285735.4
	5.7	-4693.1	-1.6	-10539.2	390.2	-325460.0
	4.4	-4675.6	-2.1	-10879.8	504.5	-321057.2
	4.4	-4672.1	-2.2	-10949.7	529.4	-320160.1
	3.1	-4654.6	-2.7	-11290.3	643.7	-315757.3
Asta	237	nodr	169	158		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	3.4	1573.0	3.6	-28087.2	630.7	-86554.6
	4.5	1562.7	2.8	-28131.4	485.7	-84800.1
	5.0	1561.0	2.6	-28140.6	455.2	-84512.8
	6.1	1550.7	1.8	-28184.8	310.2	-82758.3
	2.8	1642.7	9.4	-27786.5	1630.0	-98459.2
	3.9	1632.4	8.6	-27830.6	1485.0	-96704.7
	4.4	1630.7	8.4	-27839.9	1454.6	-96417.5
	5.6	1620.5	7.6	-27884.1	1309.6	-94663.0
	-10.1	1422.6	-8.9	-28735.8	-1534.1	-60883.3
	-9.0	1412.3	-9.7	-28780.0	-1679.1	-59128.8
	-8.5	1410.6	-9.9	-28789.2	-1709.6	-58841.5
	-7.3	1400.3	-10.7	-28833.4	-1854.6	-57087.1
	-10.7	1492.3	-3.1	-28435.1	-534.8	-72787.9
	-9.6	1482.0	-3.9	-28479.2	-679.8	-71033.5
	-9.1	1480.3	-4.1	-28488.5	-710.2	-70746.2
	-7.9	1470.1	-4.9	-28532.6	-855.2	-68991.7
162.	3.4	57.5	3.6	-28087.2	42.2	45226.1
	4.5	47.2	2.8	-28131.4	33.3	45318.9
	5.0	45.5	2.6	-28140.6	31.2	45333.7
	6.1	35.2	1.8	-28184.8	22.3	45426.5
	2.8	127.2	9.4	-27786.5	107.3	44595.4
	3.9	117.0	8.6	-27830.6	98.4	44688.2
	4.4	115.3	8.4	-27839.9	96.3	44703.0
	5.6	105.0	7.6	-27884.1	87.4	44795.8
	-10.1	-92.9	-8.9	-28735.8	-103.6	46587.1
	-9.0	-103.2	-9.7	-28780.0	-112.4	46679.9
	-8.5	-104.9	-9.9	-28789.2	-114.5	46694.8
	-7.3	-115.1	-10.7	-28833.4	-123.4	46787.6
	-10.7	-23.2	-3.1	-28435.1	-38.4	45956.4
	-9.6	-33.4	-3.9	-28479.2	-47.3	46049.2
	-9.1	-35.1	-4.1	-28488.5	-49.4	46064.1
	-7.9	-45.4	-4.9	-28532.6	-58.3	46156.9
323.	3.4	-1458.0	3.6	-28087.2	-546.6	-67968.8
	4.5	-1468.3	2.8	-28131.4	-419.3	-69537.7
	5.0	-1469.9	2.6	-28140.6	-393.1	-69795.2
	6.1	-1480.2	1.8	-28184.8	-265.8	-71364.1
	2.8	-1388.2	9.4	-27786.5	-1415.7	-57325.6
	3.9	-1398.5	8.6	-27830.6	-1288.4	-58894.5
	4.4	-1400.2	8.4	-27839.9	-1262.2	-59152.0
	5.6	-1410.5	7.6	-27884.1	-1134.9	-60720.9
	-10.1	-1608.4	-8.9	-28735.8	1327.2	-90918.0
	-9.0	-1618.6	-9.7	-28780.0	1454.5	-92486.8
	-8.5	-1620.3	-9.9	-28789.2	1480.7	-92744.4
	-7.3	-1630.6	-10.7	-28833.4	1608.0	-94313.2
	-10.7	-1538.6	-3.1	-28435.1	458.1	-80274.7
	-9.6	-1548.9	-3.9	-28479.2	585.4	-81843.6
	-9.1	-1550.6	-4.1	-28488.5	611.6	-82101.1
	-7.9	-1560.9	-4.9	-28532.6	738.9	-83670.0
Asta	238	nodr	158	159		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	9.9	1600.3	3.1	1314.1	494.6	-95147.7
	11.7	1591.5	2.4	1251.7	385.7	-93732.3
	13.1	1590.0	2.2	1238.5	353.3	-93502.4
	14.9	1581.2	1.5	1176.1	244.4	-92087.0
	8.8	1659.9	7.9	1741.3	1264.5	-104742.3

	10.6	1651.1	7.3	1678.9	1155.6	-103326.8
	12.0	1649.7	7.1	1665.7	1123.2	-103097.0
	13.9	1640.9	6.4	1603.3	1014.3	-101681.5
	-21.6	1471.7	-7.5	389.0	-1200.0	-74469.9
	-19.8	1462.9	-8.2	326.6	-1308.8	-73054.5
	-18.4	1461.5	-8.4	313.4	-1341.3	-72824.6
	-16.5	1452.7	-9.1	251.0	-1450.1	-71409.2
	-22.7	1531.4	-2.7	816.2	-430.0	-84064.5
	-20.8	1522.6	-3.4	753.8	-538.9	-82649.0
	-19.5	1521.1	-3.6	740.6	-571.3	-82419.2
	-17.6	1512.3	-4.3	678.2	-680.2	-81003.7
162.	9.9	84.3	3.1	1314.1	-7.1	41050.9
	11.7	75.5	2.4	1251.7	-4.9	41043.5
	13.1	74.1	2.2	1238.5	-4.6	41042.1
	14.9	65.3	1.5	1176.1	-2.4	41034.7
	8.8	144.0	7.9	1741.3	-21.2	41099.9
	10.6	135.2	7.3	1678.9	-19.0	41092.5
	12.0	133.7	7.1	1665.7	-18.7	41091.0
	13.9	124.9	6.4	1603.3	-16.5	41083.6
	-21.6	-44.2	-7.5	389.0	18.6	40946.9
	-19.8	-53.0	-8.2	326.6	20.8	40939.5
	-18.4	-54.4	-8.4	313.4	21.1	40938.1
	-16.5	-63.2	-9.1	251.0	23.3	40930.7
	-22.7	15.4	-2.7	816.2	4.5	40995.9
	-20.8	6.6	-3.4	753.8	6.7	40988.5
	-19.5	5.2	-3.6	740.6	7.0	40987.1
	-17.6	-3.6	-4.3	678.2	9.2	40979.7
323.	9.9	-1431.6	3.1	1314.1	-506.5	-67877.6
	11.7	-1440.4	2.4	1251.7	-393.2	-69307.9
	13.1	-1441.8	2.2	1238.5	-360.2	-69540.6
	14.9	-1450.6	1.5	1176.1	-246.9	-70970.8
	8.8	-1372.0	7.9	1741.3	-1304.6	-58185.1
	10.6	-1380.8	7.3	1678.9	-1191.3	-59615.4
	12.0	-1382.2	7.1	1665.7	-1158.4	-59848.1
	13.9	-1391.0	6.4	1603.3	-1045.0	-61278.3
	-21.6	-1560.1	-7.5	389.0	1234.8	-88763.3
	-19.8	-1568.9	-8.2	326.6	1348.1	-90193.5
	-18.4	-1570.4	-8.4	313.4	1381.1	-90426.2
	-16.5	-1579.2	-9.1	251.0	1494.4	-91856.4
	-22.7	-1500.5	-2.7	816.2	436.7	-79070.8
	-20.8	-1509.3	-3.4	753.8	550.0	-80501.0
	-19.5	-1510.7	-3.6	740.6	582.9	-80733.7
	-17.6	-1519.5	-4.3	678.2	696.3	-82163.9
Asta	239	nod	159	160		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	14.8	1563.2	3.3	-290.5	537.8	-89440.3
	16.4	1554.4	2.6	-356.1	420.8	-88013.4
	18.6	1553.0	2.4	-370.1	386.2	-87782.3
	20.3	1544.2	1.7	-435.8	269.2	-86355.4
	12.9	1623.0	8.3	158.0	1350.7	-99103.6
	14.6	1614.2	7.6	92.4	1233.7	-97676.7
	16.7	1612.8	7.4	78.4	1199.1	-97445.6
	18.4	1603.9	6.7	12.7	1082.1	-96018.7
	-25.3	1434.5	-7.9	-1263.8	-1271.7	-68628.1
	-23.6	1425.7	-8.6	-1329.4	-1388.6	-67201.2
	-21.4	1424.3	-8.8	-1343.4	-1423.3	-66970.1
	-19.7	1415.4	-9.5	-1409.1	-1540.3	-65543.2
	-27.1	1494.3	-2.9	-815.3	-458.8	-78291.5
	-25.5	1485.5	-3.6	-880.9	-575.7	-76864.6
	-23.3	1484.0	-3.8	-895.0	-610.4	-76633.4
	-21.6	1475.2	-4.5	-960.6	-727.4	-75206.5
162.	14.8	47.8	3.3	-290.5	-6.3	40770.7
	16.4	39.0	2.6	-356.1	-7.0	40770.7
	18.6	37.5	2.4	-370.1	-7.0	40770.2
	20.3	28.7	1.7	-435.8	-7.6	40770.3
	12.9	107.6	8.3	158.0	-2.6	40769.4
	14.6	98.7	7.6	92.4	-3.3	40769.4
	16.7	97.3	7.4	78.4	-3.3	40768.9
	18.4	88.5	6.7	12.7	-3.9	40769.0
	-25.3	-80.9	-7.9	-1263.8	4.6	40777.1
	-23.6	-89.8	-8.6	-1329.4	4.0	40777.1
	-21.4	-91.2	-8.8	-1343.4	4.0	40776.6
	-19.7	-100.0	-9.5	-1409.1	3.3	40776.7
	-27.1	-21.2	-2.9	-815.3	8.3	40775.8
	-25.5	-30.0	-3.6	-880.9	7.7	40775.8
	-23.3	-31.4	-3.8	-895.0	7.7	40775.3
	-21.6	-40.3	-4.5	-960.6	7.0	40775.4
323.	14.8	-1467.7	3.3	-290.5	-538.8	-73992.7
	16.4	-1476.5	2.6	-356.1	-423.2	-75419.5
	18.6	-1477.9	2.4	-370.1	-387.5	-75651.4
	20.3	-1486.8	1.7	-435.8	-271.8	-77078.2
	12.9	-1407.9	8.3	158.0	-1344.3	-64331.9
	14.6	-1416.7	7.6	92.4	-1228.7	-65758.7
	16.7	-1418.2	7.4	78.4	-1193.0	-65990.6
	18.4	-1427.0	6.7	12.7	-1077.3	-67417.4
	-25.3	-1596.4	-7.9	-1263.8	1268.3	-94794.7
	-23.6	-1605.2	-8.6	-1329.4	1383.9	-96221.5
	-21.4	-1606.7	-8.8	-1343.4	1419.7	-96453.4
	-19.7	-1615.5	-9.5	-1409.1	1535.3	-97880.3
	-27.1	-1536.6	-2.9	-815.3	462.8	-85134.0

	-25.5	-1545.5	-3.6	-880.9	578.4	-86560.8
	-23.3	-1546.9	-3.8	-895.0	614.2	-86792.7
	-21.6	-1555.7	-4.5	-960.6	729.8	-88219.5
Asta	240	nod	160	161		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	22.4	1543.6	3.2	683.3	508.9	-85940.8
	24.1	1534.7	2.5	621.3	392.5	-84513.8
	26.5	1533.3	2.2	608.1	354.1	-84280.5
	28.1	1524.5	1.5	546.0	237.8	-82853.5
	19.2	1603.3	8.2	1107.4	1324.9	-95598.4
	20.9	1594.5	7.5	1045.3	1208.5	-94171.4
	23.3	1593.1	7.3	1032.1	1170.1	-93938.0
	24.9	1584.2	6.6	970.1	1053.8	-92511.0
	-31.1	1415.0	-7.7	-227.6	-1238.2	-65160.4
	-29.4	1406.1	-8.4	-289.7	-1354.6	-63733.4
	-27.1	1404.7	-8.7	-302.9	-1393.0	-63500.1
	-25.4	1395.9	-9.4	-365.0	-1509.3	-62073.1
	-34.3	1474.7	-2.7	196.4	-422.2	-74818.0
	-32.7	1465.9	-3.4	134.4	-538.6	-73391.0
	-30.3	1464.5	-3.6	121.1	-577.0	-73157.6
	-28.6	1455.6	-4.3	59.1	-693.3	-71730.6
162.	22.4	28.1	3.2	683.3	-18.3	41089.6
	24.1	19.3	2.5	621.3	-18.9	41088.8
	26.5	17.8	2.2	608.1	-16.8	41088.2
	28.1	9.0	1.5	546.0	-17.4	41087.4
	19.2	87.9	8.2	1107.4	-16.0	41093.9
	20.9	79.0	7.5	1045.3	-16.6	41093.1
	23.3	77.6	7.3	1032.1	-14.5	41092.6
	24.9	68.8	6.6	970.1	-15.1	41091.8
	-31.1	-100.5	-7.7	-227.6	15.6	41081.3
	-29.4	-109.3	-8.4	-289.7	15.0	41080.5
	-27.1	-110.8	-8.7	-302.9	17.2	41079.9
	-25.4	-119.6	-9.4	-365.0	16.6	41079.1
	-34.3	-40.7	-2.7	196.4	18.0	41085.7
	-32.7	-49.6	-3.4	134.4	17.4	41084.9
	-30.3	-51.0	-3.6	121.1	19.5	41084.3
	-28.6	-59.8	-4.3	59.1	18.9	41083.5
323.	22.4	-1487.4	3.2	683.3	-525.6	-76858.1
	24.1	-1496.2	2.5	621.3	-410.5	-78286.7
	26.5	-1497.7	2.2	608.1	-369.2	-78521.1
	28.1	-1506.5	1.5	546.0	-254.0	-79949.7
	19.2	-1427.6	8.2	1107.4	-1337.0	-67191.8
	20.9	-1436.4	7.5	1045.3	-1221.8	-68620.4
	23.3	-1437.9	7.3	1032.1	-1180.6	-68854.9
	24.9	-1446.7	6.6	970.1	-1065.4	-70283.4
	-31.1	-1616.0	-7.7	-227.6	1250.9	-97650.0
	-29.4	-1624.8	-8.4	-289.7	1366.1	-99078.6
	-27.1	-1626.2	-8.7	-302.9	1407.4	-99313.1
	-25.4	-1635.1	-9.4	-365.0	1522.5	-100741.6
	-34.3	-1556.2	-2.7	196.4	439.6	-87983.7
	-32.7	-1565.0	-3.4	134.4	554.7	-89412.3
	-30.3	-1566.5	-3.6	121.1	596.0	-89646.8
	-28.6	-1575.3	-4.3	59.1	711.2	-91075.4
Asta	241	nod	161	162		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	14.9	1518.1	3.0	2456.9	481.8	-82237.0
	16.0	1509.3	2.2	2389.5	361.9	-80808.5
	17.8	1507.9	2.0	2375.4	319.2	-80571.7
	18.9	1499.1	1.2	2307.9	199.2	-79143.2
	13.1	1577.5	8.0	2915.6	1305.2	-91901.0
	14.2	1568.7	7.3	2848.2	1185.3	-90472.4
	16.0	1567.2	7.0	2834.0	1142.6	-90235.6
	17.2	1558.5	6.3	2766.6	1022.7	-88807.1
	-20.6	1390.6	-7.5	1481.2	-1204.7	-61466.9
	-19.4	1381.8	-8.2	1413.7	-1324.7	-60038.4
	-17.6	1380.3	-8.5	1399.6	-1367.4	-59801.6
	-16.5	1371.6	-9.2	1332.2	-1487.3	-58373.1
	-22.3	1449.9	-2.4	1939.8	-381.3	-71130.8
	-21.2	1441.1	-3.1	1872.4	-501.2	-69702.3
	-19.4	1439.7	-3.4	1858.3	-543.9	-69465.5
	-18.3	1430.9	-4.1	1790.9	-663.8	-68037.0
162.	14.9	2.2	3.0	2456.9	-0.9	40677.0
	16.0	-6.6	2.2	2389.5	-1.6	40686.8
	17.8	-8.1	2.0	2375.4	-2.0	40688.6
	18.9	-16.8	1.2	2307.9	-2.7	40698.4
	13.1	61.5	8.0	2915.6	0.7	40609.6
	14.2	52.7	7.3	2848.2	0.1	40619.4
	16.0	51.3	7.0	2834.0	-0.3	40621.3
	17.2	42.5	6.3	2766.6	-1.0	40631.1
	-20.6	-125.4	-7.5	1481.2	4.0	40823.2
	-19.4	-134.2	-8.2	1413.7	3.3	40833.1
	-17.6	-135.6	-8.5	1399.6	2.9	40834.9
	-16.5	-144.4	-9.2	1332.2	2.2	40844.7
	-22.3	-66.0	-2.4	1939.8	5.6	40755.9
	-21.2	-74.8	-3.1	1872.4	5.0	40765.7
	-19.4	-76.3	-3.4	1858.3	4.6	40767.5
	-18.3	-85.0	-4.1	1790.9	3.9	40777.4
323.	14.9	-1513.8	3.0	2456.9	-477.7	-81536.1
	16.0	-1522.5	2.2	2389.5	-359.1	-82945.0

	17.8	-1524.0	2.0	2375.4	-317.2	-83178.2
	18.9	-1532.8	1.2	2307.9	-198.6	-84587.0
	13.1	-1454.4	8.0	2915.6	-1297.8	-72006.9
	14.2	-1463.2	7.3	2848.2	-1179.2	-73415.7
	16.0	-1464.6	7.0	2834.0	-1137.3	-73648.9
	17.2	-1473.4	6.3	2766.6	-1018.7	-75057.8
	-20.6	-1641.3	-7.5	1481.2	1206.7	-102013.7
	-19.4	-1650.1	-8.2	1413.7	1325.3	-103422.6
	-17.6	-1651.5	-8.5	1399.6	1367.2	-103655.8
	-16.5	-1660.3	-9.2	1332.2	1485.8	-105064.7
	-22.3	-1582.0	-2.4	1939.8	386.6	-92484.5
	-21.2	-1590.7	-3.1	1872.4	505.2	-93893.3
	-19.4	-1592.2	-3.4	1858.3	547.1	-94126.5
	-18.3	-1601.0	-4.1	1790.9	665.7	-95535.4
Asta	242	nodj	162	163		
PROGR.	NORM	TYJ	TZZ	TORS	MYJ	MZZ
0.	7.1	1565.1	3.3	42915.8	529.2	-84473.6
	7.4	1554.5	2.5	42793.7	408.2	-82873.3
	9.3	1552.7	2.4	42767.9	380.9	-82604.3
	9.7	1542.2	1.6	42645.8	259.9	-81004.1
	6.5	1636.6	8.5	43746.7	1355.3	-95298.2
	6.9	1626.0	7.7	43624.6	1234.3	-93698.0
	8.7	1624.2	7.6	43598.7	1206.9	-93429.0
	9.1	1613.7	6.8	43476.6	1085.9	-91828.8
	-8.3	1411.5	-7.9	41143.6	-1251.7	-61229.0
	-7.9	1401.0	-8.6	41021.5	-1372.7	-59628.7
	-6.1	1399.2	-8.8	40995.6	-1400.0	-59359.7
	-5.7	1388.6	-9.6	40873.5	-1521.1	-57759.5
	-8.9	1483.0	-2.7	41974.4	-425.6	-72053.6
	-8.5	1472.5	-3.4	41852.3	-546.7	-70453.4
	-6.7	1470.7	-3.6	41826.5	-574.0	-70184.4
	-6.3	1460.1	-4.4	41704.4	-695.0	-68584.1
162.	7.1	49.6	3.3	42915.8	-5.2	46032.3
	7.4	39.0	2.5	42793.7	-3.1	45923.8
	9.3	37.3	2.4	42767.9	-2.9	45905.3
	9.7	26.7	1.6	42645.8	-0.8	45796.8
	6.5	121.1	8.5	43746.7	-19.4	46765.9
	6.9	110.5	7.7	43624.6	-17.3	46657.4
	8.7	108.8	7.6	43598.7	-17.1	46638.9
	9.1	98.2	6.8	43476.6	-15.1	46530.4
	-8.3	-103.9	-7.9	41143.6	20.8	44458.0
	-7.9	-114.5	-8.6	41021.5	22.8	44349.5
	-6.1	-116.3	-8.8	40995.6	23.0	44331.0
	-5.7	-126.9	-9.6	40873.5	25.1	44222.5
	-8.9	-32.4	-2.7	41974.4	6.5	45191.5
	-8.5	-43.0	-3.4	41852.3	8.6	45083.0
	-6.7	-44.8	-3.6	41826.5	8.8	45064.5
	-6.3	-55.4	-4.4	41704.4	10.9	44956.0
323.	7.1	-1465.9	3.3	42915.8	-536.7	-68437.3
	7.4	-1476.4	2.5	42793.7	-411.5	-70254.5
	9.3	-1478.2	2.4	42767.9	-383.8	-70560.6
	9.7	-1488.8	1.6	42645.8	-258.6	-72377.8
	6.5	-1394.4	8.5	43746.7	-1391.3	-56145.5
	6.9	-1404.9	7.7	43624.6	-1266.1	-57962.8
	8.7	-1406.7	7.6	43598.7	-1238.4	-58268.8
	9.1	-1417.3	6.8	43476.6	-1113.2	-60086.0
	-8.3	-1619.4	-7.9	41143.6	1290.3	-94830.6
	-7.9	-1630.0	-8.6	41021.5	1415.6	-96647.8
	-6.1	-1631.8	-8.8	40995.6	1443.2	-96953.8
	-5.7	-1642.3	-9.6	40873.5	1568.5	-98771.1
	-8.9	-1547.9	-2.7	41974.4	435.7	-82538.8
	-8.5	-1558.5	-3.4	41852.3	561.0	-84356.0
	-6.7	-1560.2	-3.6	41826.5	588.6	-84662.1
	-6.3	-1570.8	-4.4	41704.4	713.9	-86479.3
Asta	243	nodj	163	99		
PROGR.	NORM	TYJ	TZZ	TORS	MYJ	MZZ
0.	-4.3	-293.5	7.9	14463.6	786.0	63522.5
	-4.3	-307.3	6.1	14366.0	599.7	65009.4
	-5.9	-310.1	5.7	14346.7	566.3	65315.7
	-5.9	-323.9	3.9	14249.1	380.0	66802.5
	-3.5	-199.7	20.6	15125.7	2046.0	53407.6
	-3.5	-213.5	18.7	15028.1	1859.6	54894.4
	-5.1	-216.3	18.4	15008.8	1826.2	55200.7
	-5.1	-230.1	16.5	14911.2	1639.9	56687.6
	5.4	-493.8	-19.3	13043.2	-1923.0	85105.5
	5.4	-507.6	-21.1	12945.6	-2109.3	86592.3
	3.8	-510.4	-21.5	12926.4	-2142.7	86898.6
	3.8	-524.2	-23.3	12828.8	-2329.0	88385.4
	6.1	-400.0	-6.6	13705.3	-663.1	74990.6
	6.1	-413.8	-8.5	13607.7	-849.4	76477.4
	4.6	-416.6	-8.8	13588.5	-882.8	76783.7
	4.5	-430.3	-10.7	13490.9	-1069.1	78270.5
88.	-4.3	-1707.9	7.9	14463.6	91.9	-24038.0
	-4.3	-1721.7	6.1	14366.0	68.8	-23758.3
	-5.9	-1724.5	5.7	14346.7	65.7	-23697.1
	-5.9	-1738.3	3.9	14249.1	42.6	-23417.4
	-3.5	-1614.1	20.6	15125.7	246.2	-25944.1
	-3.5	-1627.9	18.7	15028.1	223.2	-25664.4
	-5.1	-1630.7	18.4	15008.8	220.1	-25603.2

175.	-5.1	-1644.5	16.5	14911.2	197.0	-25323.6
	5.4	-1908.2	-19.3	13043.2	-238.3	-19981.1
	5.4	-1922.0	-21.1	12945.6	-261.4	-19701.4
	3.8	-1924.8	-21.5	12926.4	-264.4	-19640.2
	3.8	-1938.6	-23.3	12828.8	-287.5	-19360.5
	6.1	-1814.4	-6.6	13705.3	-83.9	-21887.2
	6.1	-1828.2	-8.5	13607.7	-107.0	-21607.5
	4.6	-1831.0	-8.8	13588.5	-110.1	-21546.3
	4.5	-1844.8	-10.7	13490.9	-133.1	-21266.6
	-4.3	-3122.3	7.9	14463.6	-602.4	-235361.8
	-4.3	-3136.1	6.1	14366.0	-462.2	-236289.2
	-5.9	-3138.9	5.7	14346.7	-434.9	-236473.2
	-5.9	-3152.7	3.9	14249.1	-294.8	-237400.6
	-3.5	-3028.5	20.6	15125.7	-1553.6	-229059.0
	-3.5	-3042.3	18.7	15028.1	-1413.4	-229986.5
	-5.1	-3045.1	18.4	15008.8	-1386.1	-230170.5
	-5.1	-3058.9	16.5	14911.2	-1245.9	-231097.9
	5.4	-3322.6	-19.3	13043.2	1446.4	-248831.0
	5.4	-3336.4	-21.1	12945.6	1586.6	-249758.4
	3.8	-3339.2	-21.5	12926.4	1613.9	-249942.4
	3.8	-3353.0	-23.3	12828.8	1754.0	-250869.8
	6.1	-3228.8	-6.6	13705.3	495.3	-242528.2
	6.1	-3242.6	-8.5	13607.7	635.4	-243455.7
	4.6	-3245.4	-8.8	13588.5	662.7	-243639.7
	4.5	-3259.2	-10.7	13490.9	802.9	-244567.1
Asta PROGR. 0.	244	nod	99	100		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-5.3	1614.1	1.7	-7162.5	264.4	-88859.0
	-4.9	1606.1	1.3	-7246.1	201.5	-87409.0
	-8.7	1604.8	1.1	-7263.5	171.5	-87174.3
	-8.3	1596.8	0.7	-7347.0	108.6	-85724.3
	-4.0	1668.3	4.5	-6594.6	708.6	-98658.6
	-3.6	1660.2	4.1	-6678.1	645.7	-97208.6
	-7.4	1659.0	3.9	-6695.5	615.7	-96974.0
	-7.0	1650.9	3.5	-6779.1	552.8	-95523.9
	2.8	1497.9	-4.1	-8376.3	-655.8	-67809.9
	3.2	1489.9	-4.5	-8459.8	-718.7	-66359.9
	-0.7	1488.6	-4.7	-8477.3	-748.7	-66125.3
	-0.3	1480.6	-5.1	-8560.8	-811.6	-64675.2
	4.1	1552.0	-1.3	-7808.3	-211.6	-77609.6
	4.5	1544.0	-1.7	-7891.9	-274.5	-76159.5
	0.6	1542.7	-1.9	-7909.3	-304.5	-75924.9
	1.0	1534.7	-2.3	-7992.8	-367.4	-74474.9
	-5.3	-3.1	1.7	-7162.5	-23.5	50096.8
	-4.9	-11.1	1.3	-7246.1	-18.0	50165.2
	-8.7	-12.4	1.1	-7263.5	-17.7	50177.0
	-8.3	-20.4	0.7	-7347.0	-12.2	50245.5
	-4.0	51.1	4.5	-6594.6	-60.9	49633.3
	-3.6	43.1	4.1	-6678.1	-55.4	49701.8
	-7.4	41.8	3.9	-6695.5	-55.1	49713.6
	-7.0	33.8	3.5	-6779.1	-49.6	49782.0
	2.8	-119.3	-4.1	-8376.3	57.5	51091.2
	3.2	-127.3	-4.5	-8459.8	62.9	51159.7
	-0.7	-128.6	-4.7	-8477.3	63.3	51171.5
	-0.3	-136.6	-5.1	-8560.8	68.7	51239.9
	4.1	-65.2	-1.3	-7808.3	20.1	50627.8
	4.5	-73.2	-1.7	-7891.9	25.6	50696.2
	0.6	-74.5	-1.9	-7909.3	25.9	50708.0
	1.0	-82.5	-2.3	-7992.8	31.4	50776.5
345.	-5.3	-1620.2	1.7	-7162.5	-311.0	-89912.3
	-4.9	-1628.2	1.3	-7246.1	-237.2	-91225.4
	-8.7	-1629.5	1.1	-7263.5	-206.8	-91436.5
	-8.3	-1637.6	0.7	-7347.0	-133.0	-92749.6
	-4.0	-1566.1	4.5	-6594.6	-829.9	-81039.5
	-3.6	-1574.1	4.1	-6678.1	-756.1	-82352.7
	-7.4	-1575.4	3.9	-6695.5	-725.8	-82563.7
	-7.0	-1583.4	3.5	-6779.1	-651.9	-83876.8
	2.8	-1736.5	-4.1	-8376.3	770.7	-108972.5
	3.2	-1744.5	-4.5	-8459.8	844.5	-110285.6
	-0.7	-1745.8	-4.7	-8477.3	874.8	-110496.6
	-0.3	-1753.8	-5.1	-8560.8	948.7	-111809.8
	4.1	-1682.4	-1.3	-7808.3	251.7	-100099.7
	4.5	-1690.4	-1.7	-7891.9	325.6	-101412.8
	0.6	-1691.7	-1.9	-7909.3	355.9	-101623.9
	1.0	-1699.7	-2.3	-7992.8	429.7	-102937.0
Asta PROGR. 0.	245	nod	100	87		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-0.8	1709.6	2.6	14071.6	425.5	-104759.9
	-0.7	1701.2	2.0	13837.5	325.5	-103425.5
	-2.0	1699.9	1.9	13789.2	306.3	-103209.9
	-2.0	1691.6	1.3	13555.2	206.3	-101875.5
	-0.7	1765.8	6.9	15661.7	1099.0	-113776.3
	-0.6	1757.5	6.2	15427.6	999.0	-112441.9
	-2.0	1756.1	6.1	15379.3	979.8	-112226.3
	-1.9	1747.8	5.5	15145.3	879.8	-110891.9
	0.4	1588.8	-6.4	10672.0	-1026.7	-85391.3
	0.5	1580.5	-7.0	10437.9	-1126.7	-84057.0
	-0.8	1579.2	-7.2	10389.6	-1145.9	-83841.3
	-0.8	1570.8	-7.8	10155.6	-1245.9	-82507.0

	0.5	1645.0	-2.2	12262.1	-353.2	-94407.8
	0.6	1636.7	-2.8	12028.0	-453.2	-93073.4
	-0.8	1635.4	-3.0	11979.7	-472.4	-92857.8
170.	-0.7	1627.0	-3.6	11745.7	-572.4	-91523.4
	-0.8	115.6	2.6	14071.6	-25.1	50399.3
	-0.7	107.3	2.0	13837.5	-18.9	50319.4
	-2.0	106.0	1.9	13789.2	-16.3	50306.2
	-2.0	97.7	1.3	13555.2	-10.1	50226.3
	-0.7	171.9	6.9	15661.7	-69.4	50939.8
	-0.6	163.5	6.2	15427.6	-63.2	50859.8
	-2.0	162.2	6.1	15379.3	-60.6	50846.7
	-1.9	153.9	5.5	15145.3	-54.4	50766.7
	0.4	-5.1	-6.4	10672.0	65.6	49238.7
	0.5	-13.4	-7.0	10437.9	71.8	49158.7
	-0.8	-14.8	-7.2	10389.6	74.4	49145.6
	-0.8	-23.1	-7.8	10155.6	80.6	49065.6
	0.5	51.1	-2.2	12262.1	21.3	49779.1
	0.6	42.8	-2.8	12028.0	27.6	49699.1
	-0.8	41.4	-3.0	11979.7	30.1	49686.0
340.	-0.7	33.1	-3.6	11745.7	36.4	49606.0
	-0.8	-1478.3	2.6	14071.6	-475.4	-65437.6
	-0.7	-1486.6	2.0	13837.5	-362.9	-66931.9
	-2.0	-1487.9	1.9	13789.2	-338.7	-67173.8
	-2.0	-1496.3	1.3	13555.2	-226.3	-68668.1
	-0.7	-1422.1	6.9	15661.7	-1237.4	-55340.3
	-0.6	-1430.4	6.2	15427.6	-1124.9	-56834.6
	-2.0	-1431.7	6.1	15379.3	-1100.7	-57076.5
	-1.9	-1440.1	5.5	15145.3	-988.2	-58570.8
	0.4	-1599.0	-6.4	10672.0	1157.6	-87127.4
	0.5	-1607.3	-7.0	10437.9	1270.0	-88621.7
	-0.8	-1608.7	-7.2	10389.6	1294.3	-88863.7
	-0.8	-1617.0	-7.8	10155.6	1406.7	-90357.9
	0.5	-1542.8	-2.2	12262.1	395.6	-77030.1
	0.6	-1551.1	-2.8	12028.0	508.0	-78524.4
	-0.8	-1552.5	-3.0	11979.7	532.3	-78766.3
	-0.7	-1560.8	-3.6	11745.7	644.7	-80260.6
Asta	246	nod	120	143		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.7	1325.8	1.7	-2882.2	168.0	-56423.6
	-2.0	1349.3	1.3	-2521.7	127.9	-59025.5
	0.2	1354.5	1.3	-2454.5	124.3	-59600.3
	-0.2	1378.1	0.9	-2093.9	84.2	-62202.3
	-1.2	1165.6	4.5	-5340.9	437.8	-38708.4
	-1.6	1189.1	4.1	-4980.3	397.7	-41310.3
	0.6	1194.3	4.0	-4913.2	394.1	-41885.1
	0.3	1217.8	3.6	-4552.6	354.0	-44487.0
	0.3	1671.6	-4.2	2433.7	-411.0	-94656.6
	-0.1	1695.1	-4.6	2794.3	-451.0	-97258.5
	2.2	1700.3	-4.7	2861.5	-454.7	-97833.3
	1.8	1723.9	-5.1	3222.1	-494.7	-100435.2
	0.8	1511.4	-1.4	-24.9	-141.1	-76941.3
	0.4	1534.9	-1.9	335.6	-181.2	-79543.3
	2.6	1540.1	-1.9	402.8	-184.8	-80118.1
108.	2.2	1563.6	-2.3	763.4	-224.9	-82720.0
	-1.7	147.1	1.7	-2882.2	-18.2	22881.7
	-2.0	170.6	1.3	-2521.7	-14.1	22809.8
	0.2	175.8	1.3	-2454.5	-13.0	22794.2
	-0.2	199.3	0.9	-2093.9	-8.9	22722.2
	-1.2	-13.2	4.5	-5340.9	-46.4	23371.0
	-1.6	10.4	4.1	-4980.3	-42.2	23299.1
	0.6	15.6	4.0	-4913.2	-41.2	23283.4
	0.3	39.1	3.6	-4552.6	-37.0	23211.5
	0.3	492.9	-4.2	2433.7	42.4	21826.9
	-0.1	516.4	-4.6	2794.3	46.5	21755.0
	2.2	521.6	-4.7	2861.5	47.6	21739.3
	1.8	545.1	-5.1	3222.1	51.7	21667.4
	0.8	332.6	-1.4	-24.9	14.2	22316.2
	0.4	356.2	-1.9	335.6	18.3	22244.3
	2.6	361.4	-1.9	402.8	19.4	22228.6
	2.2	384.9	-2.3	763.4	23.5	22156.7
215.	-1.7	-1045.9	1.7	-2882.2	-204.3	-25308.0
	-2.0	-1022.3	1.3	-2521.7	-156.0	-22849.9
	0.2	-1017.1	1.3	-2454.5	-150.3	-22306.4
	-0.2	-993.6	0.9	-2093.9	-102.0	-19848.3
	-1.2	-1206.1	4.5	-5340.9	-530.5	-42044.6
	-1.6	-1182.5	4.1	-4980.3	-482.2	-39586.6
	0.6	-1177.3	4.0	-4913.2	-476.5	-39043.1
	0.3	-1153.8	3.6	-4552.6	-428.2	-36585.0
	0.3	-700.1	-4.2	2433.7	495.7	10815.4
	-0.1	-676.5	-4.6	2794.3	544.1	13273.4
	2.2	-671.3	-4.7	2861.5	549.8	13817.0
	1.8	-647.8	-5.1	3222.1	598.1	16275.0
	0.8	-860.3	-1.4	-24.9	169.5	-5921.3
	0.4	-836.7	-1.9	335.6	217.9	-3463.2
	2.6	-831.5	-1.9	402.8	223.6	-2919.7
	2.2	-808.0	-2.3	763.4	271.9	-461.7
Asta	247	nod	121	120		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.1	1744.9	3.3	744.4	547.7	-67209.9

	-0.3	1770.0	2.5	177.1	418.8	-70710.4
	-0.4	1775.5	2.4	70.4	393.2	-71480.6
	-0.6	1800.6	1.6	-496.8	264.3	-74981.1
	0.1	1574.1	8.5	4608.1	1421.5	-43371.7
	-0.2	1599.2	7.8	4040.8	1292.6	-46872.2
	-0.3	1604.7	7.6	3934.2	1267.0	-47642.4
	-0.5	1629.8	6.8	3366.9	1138.1	-51142.9
	-0.5	2113.7	-8.0	-7600.4	-1332.0	-118664.8
	-0.7	2138.8	-8.8	-8167.7	-1460.9	-122165.3
	-0.8	2144.3	-8.9	-8274.4	-1486.5	-122935.6
	-1.0	2169.4	-9.7	-8841.6	-1615.4	-126436.1
	-0.3	1942.9	-2.7	-3736.7	-458.2	-94826.7
	-0.6	1968.0	-3.5	-4304.0	-587.2	-98327.2
	-0.7	1973.5	-3.7	-4410.6	-612.7	-99097.4
	-0.9	1998.6	-4.4	-4977.9	-741.7	-102597.9
132.	-0.1	-27.1	3.3	744.4	111.9	49503.1
	-0.3	-2.0	2.5	177.1	85.8	49326.3
	-0.4	3.5	2.4	70.4	80.4	49285.5
	-0.6	28.6	1.6	-496.8	54.3	49108.7
	0.1	-198.0	8.5	4608.1	290.2	50707.5
	-0.2	-172.9	7.8	4040.8	264.1	50530.7
	-0.3	-167.4	7.6	3934.2	258.7	50490.0
	-0.5	-142.3	6.8	3366.9	232.6	50313.2
	-0.5	341.7	-8.0	-7600.4	-273.0	46903.0
	-0.7	366.8	-8.8	-8167.7	-299.1	46726.2
	-0.8	372.3	-8.9	-8274.4	-304.4	46685.4
	-1.0	397.4	-9.7	-8841.6	-330.5	46508.6
	-0.3	170.8	-2.7	-3736.7	-94.6	48107.4
	-0.6	195.9	-3.5	-4304.0	-120.7	47930.7
	-0.7	201.4	-3.7	-4410.6	-126.1	47889.9
	-0.9	226.5	-4.4	-4977.9	-152.2	47713.1
265.	-0.1	-2064.2	3.3	744.4	-324.0	-86095.6
	-0.3	-2039.1	2.5	177.1	-247.3	-82948.7
	-0.4	-2033.6	2.4	70.4	-232.5	-82260.0
	-0.6	-2008.5	1.6	-496.8	-155.8	-79113.1
	0.1	-2235.1	8.5	4608.1	-841.1	-107524.9
	-0.2	-2210.0	7.8	4040.8	-764.4	-104378.0
	-0.3	-2204.5	7.6	3934.2	-749.6	-103689.3
	-0.5	-2179.4	6.8	3366.9	-672.9	-100542.3
	-0.5	-1695.4	-8.0	-7600.4	786.1	-39840.8
	-0.7	-1670.3	-8.8	-8167.7	862.8	-36693.9
	-0.8	-1664.8	-8.9	-8274.4	877.7	-36005.2
	-1.0	-1639.7	-9.7	-8841.6	954.4	-32858.3
	-0.3	-1866.3	-2.7	-3736.7	269.0	-61270.1
	-0.6	-1841.2	-3.5	-4304.0	345.7	-58123.2
	-0.7	-1835.7	-3.7	-4410.6	360.6	-57434.5
	-0.9	-1810.6	-4.4	-4977.9	437.3	-54287.5
Asta	248	nod1	121	142		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	1.2	509.3	1.9	-4516.3	456.9	-44236.9
	2.2	498.3	1.5	-4597.9	350.1	-41516.1
	2.2	496.2	1.4	-4614.3	326.9	-40990.7
	3.2	485.2	0.9	-4695.9	220.1	-38269.8
	0.9	583.8	5.0	-3963.2	1183.1	-62766.5
	2.0	572.9	4.5	-4044.8	1076.3	-60045.7
	2.0	570.7	4.4	-4061.2	1053.0	-59520.3
	3.0	559.8	4.0	-4142.8	946.2	-56799.5
	-5.7	348.3	-4.6	-5706.0	-1108.2	-4219.5
	-4.7	337.3	-5.1	-5787.6	-1215.0	-1498.6
	-4.7	335.2	-5.2	-5804.0	-1238.3	-973.2
	-3.7	324.3	-5.6	-5885.6	-1345.1	1747.6
	-5.9	422.8	-1.6	-5152.9	-382.1	-22749.1
	-4.9	411.9	-2.0	-5234.5	-488.9	-20028.3
	-4.9	409.8	-2.1	-5250.9	-512.1	-19502.9
	-3.9	398.8	-2.6	-5332.5	-618.9	-16782.0
250.	1.2	40.5	1.9	-4516.3	-21.7	24483.2
	2.2	29.6	1.5	-4597.9	-16.6	24467.3
	2.2	27.5	1.4	-4614.3	-15.4	24464.6
	3.2	16.5	0.9	-4695.9	-10.4	24448.7
	0.9	115.1	5.0	-3963.2	-56.0	24589.9
	2.0	104.1	4.5	-4044.8	-50.9	24574.1
	2.0	102.0	4.4	-4061.2	-49.7	24571.4
	3.0	91.1	4.0	-4142.8	-44.7	24555.5
	-5.7	-120.5	-4.6	-5706.0	52.3	24252.9
	-4.7	-131.4	-5.1	-5787.6	57.3	24237.1
	-4.7	-133.5	-5.2	-5804.0	58.5	24234.4
	-3.7	-144.5	-5.6	-5885.6	63.6	24218.5
	-5.9	-45.9	-1.6	-5152.9	18.0	24359.7
	-4.9	-56.9	-2.0	-5234.5	23.0	24343.9
	-4.9	-59.0	-2.1	-5250.9	24.3	24341.2
	-3.9	-69.9	-2.6	-5332.5	29.3	24325.3
500.	1.2	-428.2	1.9	-4516.3	-500.2	-23982.1
	2.2	-439.2	1.5	-4597.9	-383.4	-26734.6
	2.2	-441.3	1.4	-4614.3	-357.7	-27265.4
	3.2	-452.2	0.9	-4695.9	-240.8	-30017.9
	0.9	-353.7	5.0	-3963.2	-1295.0	-5238.8
	2.0	-364.6	4.5	-4044.8	-1178.1	-7991.4
	2.0	-366.7	4.4	-4061.2	-1152.4	-8522.2
	3.0	-377.7	4.0	-4142.8	-1035.6	-11274.7
	-5.7	-589.2	-4.6	-5706.0	1212.8	-64459.9

	-4.7	-600.2	-5.1	-5787.6	1329.6	-67212.5
	-4.7	-602.3	-5.2	-5804.0	1355.4	-67743.3
	-3.7	-613.2	-5.6	-5885.6	1472.2	-70495.8
	-5.9	-514.7	-1.6	-5152.9	418.1	-45716.7
	-4.9	-525.6	-2.0	-5234.5	534.9	-48469.3
	-4.9	-527.7	-2.1	-5250.9	560.6	-49000.1
	-3.9	-538.7	-2.6	-5332.5	677.4	-51752.6
Asta	249	nod	142	117		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3.5	2872.9	1.7	875.5	455.3	-202239.6
	-4.1	2878.7	1.3	702.9	347.8	-203674.0
	-2.6	2880.0	1.2	670.0	327.5	-204010.3
	-3.2	2885.7	0.8	497.4	220.0	-205444.7
	-3.5	2833.8	4.3	2048.7	1182.7	-192456.3
	-4.2	2839.5	3.9	1876.1	1075.2	-193890.7
	-2.6	2840.8	3.8	1843.2	1054.9	-194227.0
	-3.3	2846.6	3.4	1670.6	947.4	-195661.4
	1.6	2957.5	-4.0	-1654.9	-1108.8	-223379.7
	1.0	2963.3	-4.4	-1827.5	-1216.3	-224814.1
	2.5	2964.6	-4.5	-1860.4	-1236.6	-225150.4
	1.9	2970.4	-4.9	-2033.0	-1344.1	-226584.8
	1.6	2918.4	-1.4	-481.6	-381.4	-213596.4
	0.9	2924.1	-1.8	-654.2	-488.9	-215030.8
	2.5	2925.5	-1.8	-687.1	-509.2	-215367.1
	1.8	2931.2	-2.2	-859.7	-616.7	-216801.5
248.	-3.5	-121.0	1.7	875.5	46.0	122005.2
	-4.1	-115.3	1.3	702.9	35.5	121994.9
	-2.6	-113.9	1.2	670.0	32.9	121991.0
	-3.2	-108.2	0.8	497.4	22.5	121980.7
	-3.5	-160.2	4.3	2048.7	118.3	122076.4
	-4.2	-154.4	3.9	1876.1	107.8	122066.1
	-2.6	-153.1	3.8	1843.2	105.2	122062.1
	-3.3	-147.4	3.4	1670.6	94.7	122051.8
	1.6	-36.4	-4.0	-1654.9	-110.8	121851.4
	1.0	-30.7	-4.4	-1827.5	-121.2	121841.1
	2.5	-29.3	-4.5	-1860.4	-123.9	121837.2
	1.9	-23.6	-4.9	-2033.0	-134.3	121826.9
	1.6	-75.6	-1.4	-481.6	-38.5	121922.6
	0.9	-69.8	-1.8	-654.2	-48.9	121912.3
	2.5	-68.5	-1.8	-687.1	-51.6	121908.3
	1.8	-62.7	-2.2	-859.7	-62.0	121898.0
496.	-3.5	-2291.9	1.7	875.5	-363.4	-194225.6
	-4.1	-2286.2	1.3	702.9	-276.8	-192811.8
	-2.6	-2284.8	1.2	670.0	-261.7	-192483.3
	-3.2	-2279.1	0.8	497.4	-175.1	-191069.5
	-3.5	-2331.1	4.3	2048.7	-946.2	-203866.6
	-4.2	-2325.3	3.9	1876.1	-859.6	-202452.8
	-2.6	-2324.0	3.8	1843.2	-844.5	-202124.3
	-3.3	-2318.3	3.4	1670.6	-757.9	-200710.5
	1.6	-2207.3	-4.0	-1654.9	887.2	-173393.1
	1.0	-2201.6	-4.4	-1827.5	973.8	-171979.3
	2.5	-2200.2	-4.5	-1860.4	988.9	-171650.8
	1.9	-2194.5	-4.9	-2033.0	1075.5	-170237.0
	1.6	-2246.5	-1.4	-481.6	304.4	-183034.1
	0.9	-2240.7	-1.8	-654.2	391.0	-181620.3
	2.5	-2239.4	-1.8	-687.1	406.1	-181291.8
	1.8	-2233.6	-2.2	-859.7	492.7	-179878.0
Asta	250	nod	117	116		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.4	608.3	1.6	10308.1	321.3	-65858.9
	1.2	606.5	1.2	9952.6	248.1	-65598.9
	3.2	606.4	1.2	9878.8	233.0	-65597.5
	4.1	604.6	0.8	9523.4	159.8	-65337.6
	1.0	621.0	4.1	12730.8	832.6	-67627.6
	1.8	619.1	3.8	12375.4	759.4	-67367.6
	3.9	619.0	3.7	12301.6	744.3	-67366.2
	4.7	617.2	3.3	11946.1	671.1	-67106.2
	-7.8	581.0	-3.9	5073.4	-789.8	-62026.3
	-7.0	579.2	-4.3	4717.9	-863.0	-61766.3
	-4.9	579.1	-4.4	4644.1	-878.1	-61764.9
	-4.1	577.3	-4.7	4288.7	-951.3	-61505.0
	-7.2	593.6	-1.4	7496.1	-278.6	-63795.0
	-6.4	591.8	-1.7	7140.6	-351.7	-63535.0
	-4.3	591.7	-1.8	7066.9	-366.9	-63533.6
	-3.5	589.9	-2.2	6711.4	-440.1	-63273.6
187.	0.4	154.1	1.6	10308.1	20.7	4541.6
	1.2	152.3	1.2	9952.6	15.2	4453.9
	3.2	152.2	1.2	9878.8	15.8	4440.1
	4.1	150.3	0.8	9523.4	10.3	4352.5
	1.0	166.7	4.1	12730.8	55.9	5137.2
	1.8	164.9	3.8	12375.4	50.4	5049.6
	3.9	164.8	3.7	12301.6	51.0	5035.8
	4.7	163.0	3.3	11946.1	45.5	4948.2
	-7.8	126.8	-3.9	5073.4	-53.4	3254.8
	-7.0	125.0	-4.3	4717.9	-58.9	3167.1
	-4.9	124.9	-4.4	4644.1	-58.3	3153.3
	-4.1	123.0	-4.7	4288.7	-63.9	3065.7
	-7.2	139.4	-1.4	7496.1	-18.2	3850.4
	-6.4	137.6	-1.7	7140.6	-23.7	3762.8

	-4.3	137.5	-1.8	7066.9	-23.1	3749.0
	-3.5	135.6	-2.2	6711.4	-28.7	3661.4
375.	0.4	-231.6	1.6	10308.1	-280.5	-3791.7
	1.2	-233.5	1.2	9952.6	-218.3	-4227.0
	3.2	-233.5	1.2	9878.8	-201.2	-4254.7
	4.1	-235.4	0.8	9523.4	-139.0	-4690.0
	1.0	-219.0	4.1	12730.8	-721.4	-831.7
	1.8	-220.9	3.8	12375.4	-659.2	-1267.0
	3.9	-220.9	3.7	12301.6	-642.1	-1294.7
	4.7	-222.8	3.3	11946.1	-579.9	-1730.0
	-7.8	-258.9	-3.9	5073.4	682.7	-10197.9
	-7.0	-260.8	-4.3	4717.9	744.9	-10633.2
	-4.9	-260.9	-4.4	4644.1	762.0	-10660.9
	-4.1	-262.7	-4.7	4288.7	824.2	-11096.2
	-7.2	-246.3	-1.4	7496.1	241.8	-7237.9
	-6.4	-248.2	-1.7	7140.6	304.0	-7673.2
	-4.3	-248.2	-1.8	7066.9	321.1	-7700.9
	-3.5	-250.1	-2.2	6711.4	383.3	-8136.2
Asta	251	nod1	116	115		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	5.1	2671.1	2.5	6241.3	338.5	-189094.7
	6.0	2682.0	1.9	6101.0	257.7	-190409.4
	0.3	2684.3	1.9	6074.0	249.0	-190683.6
	1.2	2695.3	1.3	5933.7	168.2	-191998.3
	4.8	2596.3	6.7	7192.7	882.3	-180127.0
	5.8	2607.2	6.1	7052.4	801.5	-181441.7
	0.1	2609.5	6.0	7025.4	792.8	-181715.9
	1.0	2620.5	5.4	6885.2	712.0	-183030.6
	-5.1	2832.9	-6.3	4192.5	-829.7	-208495.5
	-4.1	2843.9	-6.9	4052.3	-910.4	-209810.2
	-9.8	2846.2	-7.0	4025.3	-919.2	-210084.4
	-8.9	2857.1	-7.6	3885.0	-1000.0	-211399.1
	-5.3	2758.1	-2.2	5144.0	-285.8	-199527.8
	-4.4	2769.1	-2.8	5003.7	-366.6	-200842.6
	-10.1	2771.4	-2.8	4976.7	-375.4	-201116.7
	-9.1	2782.3	-3.5	4836.5	-456.2	-202431.5
138.	5.1	466.1	2.5	6241.3	-12.1	32713.4
	6.0	477.0	1.9	6101.0	-8.5	32906.7
	0.3	479.3	1.9	6074.0	-8.9	32945.9
	1.2	490.3	1.3	5933.7	-5.4	33139.2
	4.8	391.3	6.7	7192.7	-34.6	31394.3
	5.8	402.2	6.1	7052.4	-31.0	31587.6
	0.1	404.5	6.0	7025.4	-31.4	31626.7
	1.0	415.5	5.4	6885.2	-27.8	31820.1
	-5.1	627.9	-6.3	4192.5	34.5	35567.4
	-4.1	638.8	-6.9	4052.3	38.0	35760.8
	-9.8	641.1	-7.0	4025.3	37.6	35799.9
	-8.9	652.1	-7.6	3885.0	41.2	35993.2
	-5.3	553.1	-2.2	5144.0	12.0	34248.3
	-4.4	564.0	-2.8	5003.7	15.6	34441.7
	-10.1	566.3	-2.8	4976.7	15.2	34480.8
	-9.1	577.3	-3.5	4836.5	18.7	34674.1
275.	5.1	-2270.7	2.5	6241.3	-362.4	-85285.0
	6.0	-2259.8	1.9	6101.0	-274.5	-83583.5
	0.3	-2257.5	1.9	6074.0	-266.8	-83231.1
	1.2	-2246.5	1.3	5933.7	-178.9	-81529.7
	4.8	-2345.5	6.7	7192.7	-951.2	-96890.8
	5.8	-2334.6	6.1	7052.4	-863.3	-95189.4
	0.1	-2332.3	6.0	7025.4	-855.6	-94837.0
	1.0	-2321.3	5.4	6885.2	-767.7	-93135.6
	-5.1	-2108.9	-6.3	4192.5	898.7	-60176.1
	-4.1	-2097.9	-6.9	4052.3	986.6	-58474.7
	-9.8	-2095.7	-7.0	4025.3	994.2	-58122.3
	-8.9	-2084.7	-7.6	3885.0	1082.1	-56420.8
	-5.3	-2183.7	-2.2	5144.0	309.9	-71782.0
	-4.4	-2172.7	-2.8	5003.7	397.8	-70080.5
	-10.1	-2170.5	-2.8	4976.7	405.4	-69728.1
	-9.1	-2159.5	-3.5	4836.5	493.3	-68026.7
Asta	252	nod1	115	174		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	2.0	3889.9	2.8	19317.4	387.6	-137314.3
	2.1	3905.6	2.1	19199.4	298.0	-139429.8
	-0.6	3908.8	1.9	19172.9	264.0	-139864.9
	-0.4	3924.5	1.3	19054.8	174.3	-141980.4
	1.7	3782.8	7.1	20118.2	992.0	-122883.4
	1.8	3798.5	6.5	20000.2	902.4	-124998.9
	-0.9	3801.8	6.3	19973.7	868.4	-125434.0
	-0.7	3817.5	5.6	19855.6	778.8	-127549.5
	-0.2	4121.6	-6.6	17593.9	-911.9	-168535.8
	0.0	4137.2	-7.2	17475.9	-1001.6	-170651.3
	-2.7	4140.5	-7.4	17449.4	-1035.6	-171086.4
	-2.6	4156.2	-8.1	17331.3	-1125.2	-173201.9
	-0.5	4014.5	-2.2	18394.7	-307.5	-154104.9
	-0.3	4030.2	-2.9	18276.7	-397.1	-156220.4
	-3.0	4033.4	-3.1	18250.2	-431.1	-156655.5
	-2.9	4049.1	-3.7	18132.1	-520.7	-158771.0
135.	2.0	-473.3	2.8	19317.4	10.8	68628.7
	2.1	-457.6	2.1	19199.4	8.1	68632.2
	-0.6	-454.4	1.9	19172.9	5.2	68633.5

	-0.4	-438.7	1.3	19054.8	2.5	68637.0
	1.7	-580.4	7.1	20118.2	27.9	68605.3
	1.8	-564.7	6.5	20000.2	25.2	68608.8
	-0.9	-561.5	6.3	19973.7	22.3	68610.1
	-0.7	-545.8	5.6	19855.6	19.6	68613.5
	-0.2	-241.7	-6.6	17593.9	-25.2	68678.9
	0.0	-226.0	-7.2	17475.9	-27.8	68682.4
	-2.7	-222.8	-7.4	17449.4	-30.8	68683.7
	-2.6	-207.1	-8.1	17331.3	-33.4	68687.2
	-0.5	-348.8	-2.2	18394.7	-8.1	68655.5
	-0.3	-333.1	-2.9	18276.7	-10.8	68658.9
	-3.0	-329.8	-3.1	18250.2	-13.7	68660.3
	-2.9	-314.1	-3.7	18132.1	-16.4	68663.7
270.	2.0	-2643.2	2.8	19317.4	-366.1	-166412.3
	2.1	-2627.5	2.1	19199.4	-281.9	-164289.9
	-0.6	-2624.3	1.9	19172.9	-253.4	-163852.2
	-0.4	-2608.6	1.3	19054.8	-169.1	-161729.7
	1.7	-2750.3	7.1	20118.2	-936.4	-180890.1
	1.8	-2734.6	6.5	20000.2	-852.1	-178767.6
	-0.9	-2731.3	6.3	19973.7	-823.7	-178329.9
	-0.7	-2715.6	5.6	19855.6	-739.4	-176207.5
	-0.2	-2411.5	-6.6	17593.9	861.5	-135090.4
	0.0	-2395.8	-7.2	17475.9	945.8	-132968.0
	-2.7	-2392.6	-7.4	17449.4	974.2	-132530.3
	-2.6	-2376.9	-8.1	17331.3	1058.5	-130407.9
	-0.5	-2518.6	-2.2	18394.7	291.2	-149568.2
	-0.3	-2502.9	-2.9	18276.7	375.5	-147445.8
	-3.0	-2499.7	-3.1	18250.2	403.9	-147008.1
	-2.9	-2484.0	-3.7	18132.1	488.2	-144885.7
Asta PROGR. 0.	253 NORM	nod TYT	174 TZZ	112 TORS	MYT	MZZ
	-0.9	3305.1	1.6	-27025.1	262.6	-146832.6
	-0.8	3314.1	1.3	-26971.1	200.6	-148391.4
	-3.8	3315.9	1.2	-26952.5	189.2	-148710.5
	-3.7	3324.9	0.8	-26898.5	127.2	-150269.3
	-1.6	3243.4	4.3	-27392.6	685.7	-136197.4
	-1.5	3252.5	3.9	-27338.6	623.7	-137756.1
	-4.5	3254.3	3.8	-27320.0	612.3	-138075.2
	-4.4	3263.3	3.4	-27266.0	550.3	-139634.0
	1.6	3438.4	-4.0	-26234.2	-650.7	-169846.6
	1.7	3447.5	-4.4	-26180.2	-712.7	-171405.4
	-1.3	3449.3	-4.5	-26161.6	-724.1	-171724.5
	-1.2	3458.3	-4.9	-26107.6	-786.1	-173283.3
	0.9	3376.8	-1.4	-26601.7	-227.6	-159211.4
	1.0	3385.9	-1.8	-26547.7	-289.6	-160770.1
	-1.9	3387.7	-1.9	-26529.1	-301.0	-161089.2
	-1.8	3396.7	-2.3	-26475.1	-363.0	-162648.0
145.	-0.9	88.7	1.6	-27025.1	25.4	106907.9
	-0.8	97.7	1.3	-26971.1	19.1	106659.4
	-3.8	99.6	1.2	-26952.5	19.2	106604.7
	-3.7	108.6	0.8	-26898.5	12.9	106356.3
	-1.6	27.1	4.3	-27392.6	67.7	108600.8
	-1.5	36.1	3.9	-27338.6	61.4	108352.3
	-4.5	37.9	3.8	-27320.0	61.6	108297.6
	-4.4	47.0	3.4	-27266.0	55.2	108049.1
	1.6	222.1	-4.0	-26234.2	-64.6	103250.9
	1.7	231.1	-4.4	-26180.2	-70.9	103002.4
	-1.3	232.9	-4.5	-26161.6	-70.7	102947.7
	-1.2	242.0	-4.9	-26107.6	-77.1	102699.2
	0.9	160.5	-1.4	-26601.7	-22.2	104943.7
	1.0	169.5	-1.8	-26547.7	-28.5	104695.2
	-1.9	171.3	-1.9	-26529.1	-28.4	104640.5
	-1.8	180.3	-2.3	-26475.1	-34.7	104392.1
290.	-0.9	-3745.2	1.6	-27025.1	-212.0	-150961.5
	-0.8	-3736.2	1.3	-26971.1	-162.6	-149899.6
	-3.8	-3734.4	1.2	-26952.5	-150.7	-149689.9
	-3.7	-3725.3	0.8	-26898.5	-101.3	-148628.1
	-1.6	-3806.8	4.3	-27392.6	-550.4	-158211.1
	-1.5	-3797.8	3.9	-27338.6	-501.0	-157149.3
	-4.5	-3796.0	3.8	-27320.0	-489.1	-156939.5
	-4.4	-3787.0	3.4	-27266.0	-439.7	-155877.7
	1.6	-3611.8	-4.0	-26234.2	521.5	-135261.5
	1.7	-3602.8	-4.4	-26180.2	570.9	-134199.7
	-1.3	-3601.0	-4.5	-26161.6	582.8	-133990.0
	-1.2	-3592.0	-4.9	-26107.6	632.2	-132928.2
	0.9	-3673.5	-1.4	-26601.7	183.1	-142511.1
	1.0	-3664.4	-1.8	-26547.7	232.5	-141449.3
	-1.9	-3662.6	-1.9	-26529.1	244.4	-141239.6
	-1.8	-3653.6	-2.3	-26475.1	293.8	-140177.8
Asta PROGR. 0.	254 NORM	nod TYT	112 TZZ	111 TORS	MYT	MZZ
	-0.8	229.5	1.6	8717.0	187.7	-26111.6
	-0.7	240.1	1.2	8372.1	141.7	-27061.4
	-1.4	242.4	1.1	8300.0	129.2	-27251.5
	-1.3	253.0	0.7	7955.1	83.2	-28201.3
	-1.3	157.0	4.2	11066.7	488.6	-19632.1
	-1.2	167.6	3.8	10721.8	442.6	-20581.8
	-2.0	169.9	3.7	10649.8	430.1	-20772.0
	-1.9	180.5	3.3	10304.9	384.1	-21721.8

	0.5	386.2	-3.8	3639.8	-450.1	-40132.2
	0.6	396.9	-4.2	3294.9	-496.1	-41082.0
	-0.2	399.1	-4.3	3222.9	-508.6	-41272.1
	-0.1	409.7	-4.7	2878.0	-554.6	-42221.9
	-0.1	313.7	-1.3	5989.6	-149.2	-33652.6
	0.0	324.4	-1.7	5644.7	-195.2	-34602.4
	-0.8	326.6	-1.8	5572.6	-207.7	-34792.6
	-0.7	337.2	-2.2	5227.7	-253.7	-35742.3
110.	-0.8	23.1	1.6	8717.0	12.5	-12207.6
	-0.7	33.7	1.2	8372.1	10.2	-11985.8
	-1.4	35.9	1.1	8300.0	8.8	-11930.4
	-1.3	46.6	0.7	7955.1	6.5	-11708.6
	-1.3	-49.5	4.2	11066.7	30.5	-13712.2
	-1.2	-38.8	3.8	10721.8	28.2	-13490.4
	-2.0	-36.6	3.7	10649.8	26.8	-13435.1
	-1.9	-25.9	3.3	10304.9	24.5	-13213.2
	0.5	179.8	-3.8	3639.8	-28.4	-8972.6
	0.6	190.4	-4.2	3294.9	-30.7	-8750.7
	-0.2	192.7	-4.3	3222.9	-32.1	-8695.4
	-0.1	203.3	-4.7	2878.0	-34.4	-8473.5
	-0.1	107.3	-1.3	5989.6	-10.4	-10477.2
	0.0	117.9	-1.7	5644.7	-12.7	-10255.3
	-0.8	120.1	-1.8	5572.6	-14.1	-10200.0
220.	-0.7	130.8	-2.2	5227.7	-16.4	-9978.1
	-0.8	-183.4	1.6	8717.0	-163.0	-21032.4
	-0.7	-172.7	1.2	8372.1	-121.6	-19638.9
	-1.4	-170.5	1.1	8300.0	-111.8	-19338.3
	-1.3	-159.9	0.7	7955.1	-70.4	-17944.8
	-1.3	-255.9	4.2	11066.7	-428.0	-30521.2
	-1.2	-245.2	3.8	10721.8	-386.6	-29127.6
	-2.0	-243.0	3.7	10649.8	-376.8	-28827.1
	-1.9	-232.4	3.3	10304.9	-335.4	-27433.5
	0.5	-26.6	-3.8	3639.8	393.7	-541.9
	0.6	-16.0	-4.2	3294.9	435.1	851.6
	-0.2	-13.8	-4.3	3222.9	444.9	1152.2
	-0.1	-3.1	-4.7	2878.0	486.3	2545.7
	-0.1	-99.2	-1.3	5989.6	128.7	-10030.7
	0.0	-88.5	-1.7	5644.7	170.1	-8637.2
	-0.8	-86.3	-1.8	5572.6	179.9	-8336.6
	-0.7	-75.7	-2.2	5227.7	221.3	-6943.1
Asta	255	nod1	179	140		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-6.0	545.6	1.2	32891.4	21.2	53346.5
	-6.1	590.3	0.9	34909.2	16.3	49500.9
	-6.4	599.7	0.9	35306.7	16.8	48673.4
	-6.5	644.4	0.6	37324.5	12.0	44827.8
	-10.3	241.1	3.1	19135.7	49.6	79519.1
	-10.4	285.8	2.8	21153.5	44.7	75673.4
	-10.7	295.2	2.7	21550.9	45.3	74845.9
	-10.8	340.0	2.4	23568.7	40.4	71000.3
	4.4	1202.5	-2.8	62614.5	-39.2	-3119.8
	4.3	1247.2	-3.1	64632.3	-44.0	-6965.4
	4.0	1256.6	-3.1	65029.7	-43.5	-7792.9
	3.9	1301.3	-3.4	67047.5	-48.4	-11638.6
	0.1	898.0	-0.9	48858.8	-10.8	23052.7
	-0.1	942.8	-1.2	50876.6	-15.6	19207.1
	-0.3	952.2	-1.3	51274.0	-15.1	18379.6
	-0.5	996.9	-1.6	53291.8	-19.9	14534.0
115.	-6.0	-2210.2	1.2	32891.4	-116.5	-42892.5
	-6.1	-2165.5	0.9	34909.2	-89.0	-41595.0
	-6.4	-2156.1	0.9	35306.7	-82.1	-41341.5
	-6.5	-2111.3	0.6	37324.5	-54.6	-40044.0
	-10.3	-2514.6	3.1	19135.7	-301.9	-51724.7
	-10.4	-2469.9	2.8	21153.5	-274.4	-50427.2
	-10.7	-2460.5	2.7	21550.9	-267.5	-50173.7
	-10.8	-2415.8	2.4	23568.7	-240.0	-48876.2
	4.4	-1553.3	-2.8	62614.5	282.3	-23829.2
	4.3	-1508.5	-3.1	64632.3	309.8	-22531.7
	4.0	-1499.1	-3.1	65029.7	316.7	-22278.2
	3.9	-1454.4	-3.4	67047.5	344.2	-20980.7
	0.1	-1857.7	-0.9	48858.8	96.9	-32661.4
	-0.1	-1813.0	-1.2	50876.6	124.4	-31363.9
	-0.3	-1803.6	-1.3	51274.0	131.3	-31110.4
	-0.5	-1758.9	-1.6	53291.8	158.8	-29812.9
230.	-6.0	-4909.3	1.2	32891.4	-254.0	-452719.8
	-6.1	-4864.6	0.9	34909.2	-194.1	-446279.2
	-6.4	-4855.2	0.9	35306.7	-181.3	-444944.9
	-6.5	-4810.4	0.6	37324.5	-121.4	-438504.2
	-10.3	-5213.8	3.1	19135.7	-653.1	-496556.8
	-10.4	-5169.0	2.8	21153.5	-593.3	-490116.2
	-10.7	-5159.6	2.7	21550.9	-580.4	-488781.9
	-10.8	-5114.9	2.4	23568.7	-520.6	-482341.2
	4.4	-4252.4	-2.8	62614.5	604.0	-358126.9
	4.3	-4207.7	-3.1	64632.3	663.8	-351686.2
	4.0	-4198.3	-3.1	65029.7	676.7	-350351.9
	3.9	-4153.5	-3.4	67047.5	736.5	-343911.2
	0.1	-4556.8	-0.9	48858.8	204.8	-401963.9
	-0.1	-4512.1	-1.2	50876.6	264.7	-395523.2
	-0.3	-4502.7	-1.3	51274.0	277.5	-394188.9

	-0.5	-4458.0	-1.6	53291.8	337.4	-387748.2
Asta	256	nod1	137	179		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.6	3498.5	0.7	-52599.3	182.0	-420856.2
	-1.2	3543.2	0.5	-48709.6	138.7	-428989.0
	-0.6	3552.6	0.5	-47873.4	128.4	-430725.3
	-0.3	3597.4	0.3	-43983.7	85.1	-438858.1
	0.0	3194.1	1.9	-79072.2	477.4	-365526.4
	0.4	3238.8	1.7	-75182.5	434.1	-373659.2
	1.0	3248.2	1.7	-74346.4	423.9	-375395.5
	1.4	3292.9	1.5	-70456.7	380.6	-383528.2
	-5.4	4155.4	-1.8	4516.2	-453.8	-540198.7
	-5.0	4200.2	-2.0	8405.9	-497.1	-548331.5
	-4.4	4209.6	-2.1	9242.1	-507.3	-550067.8
	-4.1	4254.3	-2.2	13131.8	-550.6	-558200.5
	-3.8	3851.0	-0.7	-21956.7	-158.3	-484868.9
	-3.4	3895.7	-0.8	-18067.0	-201.6	-493001.7
	-2.8	3905.1	-0.9	-17230.9	-211.8	-494738.0
	-2.4	3949.8	-1.0	-13341.2	-255.1	-502870.7
112.	-1.6	2022.0	0.7	-52599.3	101.5	-110344.4
	-1.2	2066.8	0.5	-48709.6	77.4	-113445.0
	-0.6	2076.2	0.5	-47873.4	72.7	-114123.9
	-0.3	2120.9	0.3	-43983.7	48.7	-117224.5
	0.0	1717.6	1.9	-79072.2	263.4	-89263.6
	0.4	1762.3	1.7	-75182.5	239.3	-92364.3
	1.0	1771.7	1.7	-74346.4	234.6	-93043.1
	1.4	1816.4	1.5	-70456.7	210.6	-96143.7
	-5.4	2678.9	-1.8	4516.2	-246.6	-155787.9
	-5.0	2723.7	-2.0	8405.9	-270.6	-158888.5
	-4.4	2733.1	-2.1	9242.1	-275.3	-159567.4
	-4.1	2777.8	-2.2	13131.8	-299.4	-162668.0
	-3.8	2374.5	-0.7	-21956.7	-84.6	-134707.1
	-3.4	2419.2	-0.8	-18067.0	-108.7	-137807.7
	-2.8	2428.6	-0.9	-17230.9	-113.4	-138486.6
	-2.4	2473.4	-1.0	-13341.2	-137.4	-141587.2
225.	-1.6	545.6	0.7	-52599.3	21.2	34073.6
	-1.2	590.3	0.5	-48709.6	16.3	36005.1
	-0.6	599.7	0.5	-47873.4	16.8	36384.0
	-0.3	644.4	0.3	-43983.7	12.0	38315.5
	0.0	241.1	1.9	-79072.2	49.6	20905.4
	0.4	285.8	1.7	-75182.5	44.7	22836.8
	1.0	295.2	1.7	-74346.4	45.3	23215.7
	1.4	340.0	1.5	-70456.7	40.4	25147.2
	-5.4	1202.5	-1.8	4516.2	-39.2	62529.3
	-5.0	1247.2	-2.0	8405.9	-44.0	64460.8
	-4.4	1256.6	-2.1	9242.1	-43.5	64839.7
	-4.1	1301.3	-2.2	13131.8	-48.4	66771.1
	-3.8	898.0	-0.7	-21956.7	-10.8	49361.0
	-3.4	942.8	-0.8	-18067.0	-15.6	51292.5
	-2.8	952.2	-0.9	-17230.9	-15.1	51671.4
	-2.4	996.9	-1.0	-13341.2	-19.9	53602.9
Asta	257	nod1	157	137		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	1.6	1713.0	3.2	-21941.6	694.9	-164007.5
	3.2	1737.6	2.5	-20744.8	531.8	-171172.3
	3.9	1741.9	2.3	-20481.4	497.8	-172576.6
	5.5	1766.6	1.5	-19284.5	334.7	-179741.4
	3.1	1545.0	8.3	-30095.8	1800.4	-115191.6
	4.7	1569.6	7.6	-28899.0	1637.3	-122356.3
	5.4	1574.0	7.4	-28635.6	1603.3	-123760.7
	7.0	1598.6	6.7	-27438.8	1440.2	-130925.4
	-7.1	2076.3	-7.8	-4334.2	-1685.7	-269452.5
	-5.6	2101.0	-8.6	-3137.3	-1848.8	-276617.2
	-4.8	2105.3	-8.7	-2873.9	-1882.7	-278021.6
	-3.2	2129.9	-9.5	-1677.1	-2045.8	-285186.3
	-5.6	1908.4	-2.7	-12488.4	-580.2	-220636.5
	-4.1	1933.0	-3.4	-11291.5	-743.3	-227801.3
	-3.3	1937.3	-3.6	-11028.2	-777.2	-229205.6
	-1.7	1962.0	-4.4	-9831.3	-940.3	-236370.4
180.	1.6	-653.5	3.2	-21941.6	115.0	-68496.3
	3.2	-628.9	2.5	-20744.8	87.8	-71222.3
	3.9	-624.6	2.3	-20481.4	82.9	-71841.7
	5.5	-599.9	1.5	-19284.5	55.7	-74567.6
	3.1	-821.5	8.3	-30095.8	298.5	-49969.5
	4.7	-796.9	7.6	-28899.0	271.3	-52695.4
	5.4	-792.5	7.4	-28635.6	266.5	-53314.8
	7.0	-767.9	6.7	-27438.8	239.2	-56040.8
	-7.1	-290.2	-7.8	-4334.2	-279.3	-108422.2
	-5.6	-265.5	-8.6	-3137.3	-306.5	-111148.2
	-4.8	-261.2	-8.7	-2873.9	-311.4	-111767.6
	-3.2	-236.6	-9.5	-1677.1	-338.6	-114493.6
	-5.6	-458.1	-2.7	-12488.4	-95.8	-89895.4
	-4.1	-433.5	-3.4	-11291.5	-123.0	-92621.4
	-3.3	-429.2	-3.6	-11028.2	-127.8	-93240.8
	-1.7	-404.5	-4.4	-9831.3	-155.1	-95966.7
361.	1.6	-3020.0	3.2	-21941.6	-464.9	-399683.2
	3.2	-2995.4	2.5	-20744.8	-356.3	-397970.4
	3.9	-2991.1	2.3	-20481.4	-331.9	-397797.9
	5.5	-2966.4	1.5	-19284.5	-223.4	-396085.1

		3.1	-3188.0	8.3	-30095.8	-1203.3	-411445.5
		4.7	-3163.4	7.6	-28899.0	-1094.7	-409732.7
		5.4	-3159.1	7.4	-28635.6	-1070.4	-409560.2
		7.0	-3134.4	6.7	-27438.8	-961.8	-407847.4
		-7.1	-2656.7	-7.8	-4334.2	1127.1	-374087.8
		-5.6	-2632.0	-8.6	-3137.3	1235.7	-372375.0
		-4.8	-2627.7	-8.7	-2873.9	1260.0	-372202.6
		-3.2	-2603.1	-9.5	-1677.1	1368.6	-370489.8
		-5.6	-2824.7	-2.7	-12488.4	388.7	-385850.2
		-4.1	-2800.0	-3.4	-11291.5	497.2	-384137.4
		-3.3	-2795.7	-3.6	-11028.2	521.6	-383964.9
		-1.7	-2771.1	-4.4	-9831.3	630.2	-382252.1
Asta		258	nod1	157	120		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	0.2	2630.7	3.2	13824.9	697.2	-217384.7	
	1.7	2590.4	2.5	12105.8	533.7	-213596.5	
	1.9	2582.6	2.3	11730.0	499.9	-212928.7	
	3.4	2542.4	1.6	10010.9	336.4	-209140.5	
	0.3	2905.1	8.4	25517.8	1809.6	-243221.9	
	1.8	2864.8	7.6	23798.7	1646.1	-239433.7	
	2.0	2857.1	7.5	23422.9	1612.3	-238765.9	
	3.5	2816.8	6.7	21703.8	1448.8	-234977.7	
	-3.5	2037.6	-7.9	-11387.9	-1698.5	-161510.4	
	-2.0	1997.3	-8.7	-13107.0	-1862.0	-157722.3	
	-1.8	1989.6	-8.8	-13482.8	-1895.8	-157054.4	
	-0.3	1949.3	-9.6	-15201.9	-2059.3	-153266.3	
	-3.5	2312.0	-2.7	305.0	-586.2	-187347.6	
	-2.0	2271.8	-3.5	-1414.1	-749.7	-183559.4	
	-1.8	2264.0	-3.6	-1789.9	-783.5	-182891.6	
	-0.3	2223.7	-4.4	-3509.0	-947.0	-179103.4	
180.	0.2	264.2	3.2	13824.9	114.1	43590.3	
	1.7	223.9	2.5	12105.8	87.5	40119.2	
	1.9	216.1	2.3	11730.0	82.3	39385.2	
	3.4	175.9	1.6	10010.9	55.8	35914.1	
	0.3	538.6	8.4	25517.8	295.0	67233.7	
	1.8	498.3	7.6	23798.7	268.4	63762.6	
	2.0	490.5	7.5	23422.9	263.2	63028.6	
	3.5	450.3	6.7	21703.8	236.7	59557.5	
	-3.5	-328.9	-7.9	-11387.9	-275.8	-7467.6	
	-2.0	-369.2	-8.7	-13107.0	-302.4	-10938.7	
	-1.8	-376.9	-8.8	-13482.8	-307.6	-11672.7	
	-0.3	-417.2	-9.6	-15201.9	-334.1	-15143.8	
	-3.5	-54.5	-2.7	305.0	-94.9	16175.8	
	-2.0	-94.7	-3.5	-1414.1	-121.4	12704.7	
	-1.8	-102.5	-3.6	-1789.9	-126.7	11970.7	
	-0.3	-142.8	-4.4	-3509.0	-153.2	8499.7	
361.	0.2	-2102.4	3.2	13824.9	-469.1	-122128.8	
	1.7	-2142.6	2.5	12105.8	-358.7	-132859.2	
	1.9	-2150.4	2.3	11730.0	-335.3	-134994.1	
	3.4	-2190.6	1.6	10010.9	-224.9	-145724.5	
	0.3	-1827.9	8.4	25517.8	-1219.6	-49004.7	
	1.8	-1868.2	7.6	23798.7	-1109.2	-59735.1	
	2.0	-1876.0	7.5	23422.9	-1085.8	-61870.0	
	3.5	-1916.2	6.7	21703.8	-975.4	-72600.4	
	-3.5	-2695.4	-7.9	-11387.9	1146.9	-280118.8	
	-2.0	-2735.7	-8.7	-13107.0	1257.3	-290849.1	
	-1.8	-2743.4	-8.8	-13482.8	1280.7	-292984.1	
	-0.3	-2783.7	-9.6	-15201.9	1391.1	-303714.4	
	-3.5	-2421.0	-2.7	305.0	396.4	-206994.7	
	-2.0	-2461.3	-3.5	-1414.1	506.8	-217725.0	
	-1.8	-2469.0	-3.6	-1789.9	530.2	-219860.0	
	-0.3	-2509.3	-4.4	-3509.0	640.6	-230590.3	
Asta		259	nod1	120	180		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-1.2	2327.5	0.6	-1867.9	178.9	-184198.7	
	0.3	2339.9	0.4	-4071.1	138.9	-187408.1	
	2.3	2343.0	0.4	-4568.5	125.0	-188148.2	
	3.8	2355.4	0.3	-6771.7	84.9	-191357.6	
	-1.2	2242.8	1.4	13128.9	456.9	-162330.7	
	0.2	2255.2	1.3	10925.6	416.8	-165540.1	
	2.3	2258.3	1.2	10428.3	402.9	-166280.2	
	3.7	2270.7	1.1	8225.0	362.9	-169489.6	
	-9.9	2510.3	-1.3	-34222.3	-425.9	-231422.4	
	-8.4	2522.8	-1.4	-36425.6	-466.0	-234631.7	
	-6.4	2525.8	-1.5	-36922.9	-479.8	-235371.8	
	-4.9	2538.3	-1.6	-39126.2	-519.9	-238581.2	
	-10.0	2425.6	-0.5	-19225.5	-148.0	-209554.3	
	-8.5	2438.1	-0.6	-21428.8	-188.0	-212763.7	
	-6.5	2441.1	-0.6	-21926.1	-201.9	-213503.8	
	-5.0	2453.5	-0.8	-24129.4	-242.0	-216713.2	
	-1.2	851.0	0.6	-1867.9	115.9	-5416.7	
112.	0.3	863.5	0.4	-4071.1	88.8	-7226.9	
	2.3	866.5	0.4	-4568.5	83.3	-7625.0	
	3.8	878.9	0.3	-6771.7	56.1	-9435.2	
	-1.2	766.3	1.4	13128.9	300.5	6921.6	
	0.2	778.8	1.3	10925.6	273.4	5111.4	
	2.3	781.8	1.2	10428.3	267.9	4713.3	
	3.7	794.2	1.1	8225.0	240.7	2903.1	
	-9.9	1033.9	-1.3	-34222.3	-281.1	-32072.7	

	-8.4	1046.3	-1.4	-36425.6	-308.2	-33882.9
	-6.4	1049.3	-1.5	-36922.9	-313.7	-34281.0
	-4.9	1061.8	-1.6	-39126.2	-340.9	-36091.2
	-10.0	949.1	-0.5	-19225.5	-96.5	-19734.4
	-8.5	961.6	-0.6	-21428.8	-123.7	-21544.6
	-6.5	964.6	-0.6	-21926.1	-129.2	-21942.7
	-5.0	977.1	-0.8	-24129.4	-156.3	-23752.9
225.	-1.2	-625.4	0.6	-1867.9	53.8	7272.2
	0.3	-613.0	0.4	-4071.1	39.6	6861.2
	2.3	-610.0	0.4	-4568.5	41.2	6804.3
	3.8	-597.5	0.3	-6771.7	27.0	6393.2
	-1.2	-710.2	1.4	13128.9	145.1	10080.8
	0.2	-697.7	1.3	10925.6	130.8	9669.7
	2.3	-694.7	1.2	10428.3	132.4	9612.8
	3.7	-682.2	1.1	8225.0	118.2	9201.7
	-9.9	-442.6	-1.3	-34222.3	-135.9	1183.8
	-8.4	-430.2	-1.4	-36425.6	-150.1	772.7
	-6.4	-427.1	-1.5	-36922.9	-148.5	715.8
	-4.9	-414.7	-1.6	-39126.2	-162.8	304.7
	-10.0	-527.3	-0.5	-19225.5	-44.7	3992.3
	-8.5	-514.9	-0.6	-21428.8	-58.9	3581.2
	-6.5	-511.8	-0.6	-21926.1	-57.3	3524.3
	-5.0	-499.4	-0.8	-24129.4	-71.5	3113.2
Asta	260	nod	180	118		
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ
0.	0.7	-625.4	2.0	-7312.2	53.8	-1705.1
	-0.5	-613.0	1.5	-6950.4	39.6	-3917.0
	-3.7	-610.0	1.4	-6904.5	41.2	-4415.5
	-4.8	-597.5	0.9	-6542.7	27.0	-6627.4
	-0.2	-710.2	5.1	-9785.4	145.1	13350.6
	-1.4	-697.7	4.7	-9423.6	130.8	11138.7
	-4.5	-694.7	4.6	-9377.6	132.4	10640.2
	-5.7	-682.2	4.1	-9015.8	118.2	8428.3
	8.2	-442.6	-4.8	-1947.2	-135.9	-34187.4
	7.0	-430.2	-5.3	-1585.4	-150.1	-36399.3
	3.9	-427.1	-5.4	-1539.4	-148.5	-36897.7
	2.7	-414.7	-5.8	-1177.6	-162.8	-39109.6
	7.3	-527.3	-1.6	-4420.3	-44.7	-19131.7
	6.2	-514.9	-2.1	-4058.5	-58.9	-21343.6
	3.0	-511.8	-2.2	-4012.6	-57.3	-21842.0
	1.8	-499.4	-2.7	-3650.8	-71.5	-24053.9
115.	0.7	-3381.2	2.0	-7312.2	-172.1	-232580.4
	-0.5	-3368.8	1.5	-6950.4	-131.7	-233362.3
	-3.7	-3365.7	1.4	-6904.5	-121.8	-233511.4
	-4.8	-3353.3	0.9	-6542.7	-81.4	-234293.3
	-0.2	-3465.9	5.1	-9785.4	-446.5	-227264.7
	-1.4	-3453.5	4.7	-9423.6	-406.2	-228046.6
	-4.5	-3450.4	4.6	-9377.6	-396.2	-228195.7
	-5.7	-3438.0	4.1	-9015.8	-355.8	-228977.6
	8.2	-3198.4	-4.8	-1947.2	418.8	-244041.2
	7.0	-3185.9	-5.3	-1585.4	459.2	-244823.0
	3.9	-3182.9	-5.4	-1539.4	469.2	-244972.2
	2.7	-3170.4	-5.8	-1177.6	509.6	-245754.0
	7.3	-3283.1	-1.6	-4420.3	144.4	-238725.5
	6.2	-3270.6	-2.1	-4058.5	184.8	-239507.4
	3.0	-3267.6	-2.2	-4012.6	194.8	-239656.5
	1.8	-3255.2	-2.7	-3650.8	235.2	-240438.4
230.	0.7	-6080.3	2.0	-7312.2	-397.4	-777044.9
	-0.5	-6067.9	1.5	-6950.4	-302.3	-776396.7
	-3.7	-6064.8	1.4	-6904.5	-285.1	-776194.9
	-4.8	-6052.4	0.9	-6542.7	-190.1	-775546.7
	-0.2	-6165.0	5.1	-9785.4	-1037.4	-781469.3
	-1.4	-6152.6	4.7	-9423.6	-942.4	-780821.1
	-4.5	-6149.6	4.6	-9377.6	-925.2	-780619.3
	-5.7	-6137.1	4.1	-9015.8	-830.1	-779971.1
	8.2	-5897.5	-4.8	-1947.2	973.9	-767484.2
	7.0	-5885.0	-5.3	-1585.4	1069.0	-766836.0
	3.9	-5882.0	-5.4	-1539.4	1086.2	-766634.2
	2.7	-5869.6	-5.8	-1177.6	1181.2	-765986.0
	7.3	-5982.2	-1.6	-4420.3	333.9	-771908.6
	6.2	-5969.8	-2.1	-4058.5	428.9	-771260.4
	3.0	-5966.7	-2.2	-4012.6	446.1	-771058.6
	1.8	-5954.3	-2.7	-3650.8	541.2	-770410.4
Asta	261	nod	118	112		
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ
0.	-7.1	8037.9	0.5	1856.8	198.4	-889217.9
	-8.8	8057.0	0.4	1379.5	152.9	-897968.8
	-10.2	8061.3	0.3	1273.0	146.8	-899909.3
	-11.9	8080.4	0.2	795.7	101.3	-908660.2
	-8.5	7907.7	1.2	5099.6	513.8	-829627.2
	-10.2	7926.8	1.1	4622.2	468.3	-838378.1
	-11.6	7931.1	1.1	4515.7	462.2	-840318.7
	-13.3	7950.3	1.0	4038.4	416.7	-849069.6
	8.1	8318.8	-1.1	-5126.6	-487.9	-1017859.0
	6.4	8337.9	-1.2	-5603.9	-533.4	-1026609.9
	5.0	8342.2	-1.3	-5710.4	-539.5	-1028550.5
	3.4	8361.4	-1.4	-6187.8	-585.0	-1037301.4
	6.7	8188.6	-0.4	-1883.8	-172.4	-958268.4
	5.0	8207.7	-0.5	-2361.2	-217.9	-967019.2

417.	3.6	8212.0	-0.5	-2467.7	-224.0	-968959.8
	2.0	8231.2	-0.6	-2945.0	-269.6	-977710.7
	-7.1	-66.6	0.5	1856.8	5.4	709755.4
	-8.8	-47.5	0.4	1379.5	3.7	708973.2
	-10.2	-43.2	0.3	1273.0	3.5	708834.0
	-11.9	-24.0	0.2	795.7	1.8	708051.8
	-8.5	-196.8	1.2	5099.6	14.6	715107.8
	-10.2	-177.7	1.1	4622.2	13.0	714325.7
	-11.6	-173.3	1.1	4515.7	12.7	714186.4
	-13.3	-154.2	1.0	4038.4	11.1	713404.3
	8.1	214.3	-1.1	-5126.6	-13.4	698151.2
	6.4	233.4	-1.2	-5603.9	-15.0	697369.0
	5.0	237.8	-1.3	-5710.4	-15.3	697229.8
	3.4	256.9	-1.4	-6187.8	-16.9	696447.6
	6.7	84.1	-0.4	-1883.8	-4.1	703503.6
	5.0	103.2	-0.5	-2361.2	-5.8	702721.5
	3.6	107.6	-0.5	-2467.7	-6.0	702582.2
	2.0	126.7	-0.6	-2945.0	-7.7	701800.1
	-7.1	-6398.3	0.5	1856.8	-187.9	-698530.5
	-8.8	-6379.2	0.4	1379.5	-145.7	-691343.9
833.	-10.2	-6374.9	0.3	1273.0	-140.1	-689680.8
	-11.9	-6355.8	0.2	795.7	-97.9	-682494.2
	-8.5	-6528.5	1.2	5099.6	-484.9	-747416.2
	-10.2	-6509.4	1.1	4622.2	-442.6	-740229.6
	-11.6	-6505.1	1.1	4515.7	-437.0	-738566.5
	-13.3	-6485.9	1.0	4038.4	-394.8	-731379.9
	8.1	-6117.4	-1.1	-5126.6	461.4	-593097.2
	6.4	-6098.3	-1.2	-5603.9	503.6	-585910.5
	5.0	-6094.0	-1.3	-5710.4	509.2	-584247.4
	3.4	-6074.8	-1.4	-6187.8	551.4	-577060.8
	6.7	-6247.6	-0.4	-1883.8	164.5	-641982.8
	5.0	-6228.5	-0.5	-2361.2	206.7	-634796.2
	3.6	-6224.2	-0.5	-2467.7	212.3	-633133.1
	2.0	-6205.0	-0.6	-2945.0	254.5	-625946.5
Asta PROGR. 0.	262	nod	112	181		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-19.3	4825.4	4.2	-58530.9	538.4	-571239.9
	-22.5	4861.5	3.2	-59701.0	411.6	-572977.8
	-23.9	4869.3	3.1	-59900.5	387.5	-573329.4
	-27.1	4905.3	2.1	-61070.5	260.6	-575067.4
	-19.2	4580.1	11.0	-50520.5	1396.0	-559362.3
	-22.4	4616.1	10.0	-51690.5	1269.2	-561100.2
	-23.8	4623.9	9.9	-51890.0	1245.1	-561451.8
	-27.0	4659.9	8.9	-53060.0	1118.2	-563189.7
	20.9	5355.6	-10.3	-75929.5	-1303.1	-596989.0
	17.7	5391.6	-11.3	-77099.6	-1429.9	-598727.0
	16.3	5399.4	-11.5	-77299.0	-1454.0	-599078.6
	13.1	5435.5	-12.5	-78469.1	-1580.9	-600816.5
	21.0	5110.3	-3.5	-67919.0	-445.5	-585111.4
	17.8	5146.3	-4.5	-69089.1	-572.3	-586849.3
	16.4	5154.1	-4.7	-69288.6	-596.4	-587200.9
	13.2	5190.1	-5.7	-70458.6	-723.2	-588938.9
	-19.3	3442.1	4.2	-58530.9	249.8	-288939.4
68.	-22.5	3478.1	3.2	-59701.0	191.7	-288214.8
	-23.9	3485.9	3.1	-59900.5	177.0	-288033.4
	-27.1	3521.9	2.1	-61070.5	118.9	-287308.8
	-19.2	3196.7	11.0	-50520.5	643.7	-293839.5
	-22.4	3232.7	10.0	-51690.5	585.6	-293114.9
	-23.8	3240.5	9.9	-51890.0	570.9	-292933.5
	-27.0	3276.6	8.9	-53060.0	512.8	-292208.9
	20.9	3972.3	-10.3	-75929.5	-598.0	-278434.9
	17.7	4008.3	-11.3	-77099.6	-656.1	-277710.2
	16.3	4016.1	-11.5	-77299.0	-670.8	-277528.9
	13.1	4052.1	-12.5	-78469.1	-728.9	-276804.2
	21.0	3726.9	-3.5	-67919.0	-204.1	-283334.9
	17.8	3762.9	-4.5	-69089.1	-262.2	-282610.3
	16.4	3770.7	-4.7	-69288.6	-276.9	-282428.9
	13.2	3806.7	-5.7	-70458.6	-335.0	-281704.3
	-19.3	2121.1	4.2	-58530.9	-40.5	-99097.1
	-22.5	2157.1	3.2	-59701.0	-29.8	-95910.0
	-23.9	2164.9	3.1	-59900.5	-32.0	-95196.1
	-27.1	2200.9	2.1	-61070.5	-21.4	-92008.9
137.	-19.2	1875.7	11.0	-50520.5	-110.3	-120774.9
	-22.4	1911.7	10.0	-51690.5	-99.7	-117587.8
	-23.8	1919.5	9.9	-51890.0	-101.9	-116873.8
	-27.0	1955.5	8.9	-53060.0	-91.2	-113686.7
	20.9	2651.2	-10.3	-75929.5	105.6	-52340.6
	17.7	2687.3	-11.3	-77099.6	116.3	-49153.4
	16.3	2695.1	-11.5	-77299.0	114.1	-48439.5
	13.1	2731.1	-12.5	-78469.1	124.8	-45252.4
	21.0	2405.9	-3.5	-67919.0	35.8	-74018.4
	17.8	2441.9	-4.5	-69089.1	46.5	-70831.2
	16.4	2449.7	-4.7	-69288.6	44.3	-70117.3
	13.2	2485.7	-5.7	-70458.6	55.0	-66930.2
Asta PROGR. 0.	263	nod	181	111		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	5.4	2121.1	1.6	91509.8	-40.5	-69799.6
	6.9	2157.1	1.2	88207.0	-29.8	-70585.9
	11.7	2164.9	1.1	87474.6	-32.0	-70700.4

	13.2	2200.9	0.7	84171.8	-21.4	-71486.7
	6.1	1875.7	4.1	113980.5	-110.3	-64399.3
	7.6	1911.7	3.7	110677.6	-99.7	-65185.6
	12.4	1919.5	3.6	109945.3	-101.9	-65300.1
	13.8	1955.5	3.2	106642.5	-91.2	-66086.4
	-17.1	2651.2	-3.7	43029.0	105.6	-81568.0
	-15.7	2687.3	-4.1	39726.2	116.3	-82354.3
	-10.9	2695.1	-4.3	38993.8	114.1	-82468.8
	-9.4	2731.1	-4.7	35691.0	124.8	-83255.1
	-16.5	2405.9	-1.2	65499.7	35.8	-76167.7
	-15.0	2441.9	-1.6	62196.8	46.5	-76954.0
	-10.2	2449.7	-1.8	61464.5	44.3	-77068.4
	-8.7	2485.7	-2.2	58161.7	55.0	-77854.8
79.	5.4	939.0	1.6	91509.8	-165.2	50834.6
	6.9	975.0	1.2	88207.0	-124.4	52879.4
	11.7	982.8	1.1	87474.6	-117.3	53379.0
	13.2	1018.8	0.7	84171.8	-76.4	55423.8
	6.1	693.7	4.1	113980.5	-432.2	36945.8
	7.6	729.7	3.7	110677.6	-391.4	38990.6
	12.4	737.5	3.6	109945.3	-384.3	39490.2
	13.8	773.5	3.2	106642.5	-343.4	41535.1
	-17.1	1469.2	-3.7	43029.0	401.4	80746.6
	-15.7	1505.2	-4.1	39726.2	442.2	82791.4
	-10.9	1513.0	-4.3	38993.8	449.3	83291.0
	-9.4	1549.0	-4.7	35691.0	490.2	85335.8
	-16.5	1223.8	-1.2	65499.7	134.4	66857.9
	-15.0	1259.9	-1.6	62196.8	175.2	68902.7
	-10.2	1267.6	-1.8	61464.5	182.3	69402.3
	-8.7	1303.7	-2.2	58161.7	223.2	71447.1
157.	5.4	-297.3	1.6	91509.8	-291.5	76415.8
	6.9	-261.2	1.2	88207.0	-220.5	81291.8
	11.7	-253.5	1.1	87474.6	-201.0	82403.6
	13.2	-217.4	0.7	84171.8	-129.9	87279.5
	6.1	-542.6	4.1	113980.5	-755.7	43238.0
	7.6	-506.6	3.7	110677.6	-684.7	48114.0
	12.4	-498.8	3.6	109945.3	-665.1	49225.8
	13.8	-462.8	3.2	106642.5	-594.1	54101.7
	-17.1	232.9	-3.7	43029.0	695.6	148006.7
	-15.7	268.9	-4.1	39726.2	766.7	152882.6
	-10.9	276.7	-4.3	38993.8	786.2	153994.4
	-9.4	312.7	-4.7	35691.0	857.2	158870.4
	-16.5	-12.4	-1.2	65499.7	231.5	114828.9
	-15.0	23.6	-1.6	62196.8	302.5	119704.8
	-10.2	31.4	-1.8	61464.5	322.0	120816.6
	-8.7	67.4	-2.2	58161.7	393.0	125692.6
Asta	264	nod1	127	126		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.5	2753.4	2.1	8346.9	393.2	-179054.6
	-1.4	2769.6	1.6	7676.1	300.6	-181636.0
	-2.1	2772.9	1.5	7533.1	282.7	-182150.1
	-1.9	2789.1	1.0	6862.3	190.1	-184731.5
	-1.4	2642.8	5.4	12908.0	1022.0	-161460.9
	-1.2	2659.0	4.9	12237.2	929.4	-164042.3
	-2.0	2662.3	4.8	12094.2	911.4	-164556.4
	-1.8	2678.6	4.3	11423.4	818.8	-167137.8
	-4.3	2992.1	-5.1	-1485.4	-955.5	-217062.5
	-4.1	3008.3	-5.6	-2156.2	-1048.1	-219643.8
	-4.8	3011.6	-5.7	-2299.2	-1066.1	-220158.0
	-4.7	3027.9	-6.2	-2970.0	-1158.7	-222739.3
	-4.1	2881.6	-1.7	3075.7	-326.8	-199468.8
	-3.9	2897.8	-2.2	2404.9	-419.4	-202050.2
	-4.7	2901.1	-2.3	2261.9	-437.4	-202564.3
	-4.5	2917.3	-2.8	1591.1	-530.0	-205145.7
212.	-1.5	61.8	2.1	8346.9	-48.6	132882.8
	-1.4	78.0	1.6	7676.1	-37.2	133736.5
	-2.1	81.3	1.5	7533.1	-35.1	133919.6
	-1.9	97.5	1.0	6862.3	-23.6	134773.4
	-1.4	-48.8	5.4	12908.0	-126.1	127074.5
	-1.2	-32.6	4.9	12237.2	-114.7	127928.3
	-2.0	-29.3	4.8	12094.2	-112.6	128111.4
	-1.8	-13.0	4.3	11423.4	-101.1	128965.2
	-4.3	300.5	-5.1	-1485.4	118.2	145410.2
	-4.1	316.7	-5.6	-2156.2	129.7	146263.9
	-4.8	320.0	-5.7	-2299.2	131.7	146447.1
	-4.7	336.2	-6.2	-2970.0	143.2	147300.8
	-4.1	189.9	-1.7	3075.7	40.7	139602.0
	-3.9	206.2	-2.2	2404.9	52.2	140455.7
	-4.7	209.5	-2.3	2261.9	54.2	140638.8
	-4.5	225.7	-2.8	1591.1	65.7	141492.6
423.	-1.5	-3422.8	2.1	8346.9	-490.5	-208856.3
	-1.4	-3406.5	1.6	7676.1	-375.0	-204567.4
	-2.1	-3403.3	1.5	7533.1	-352.9	-203687.1
	-1.9	-3387.0	1.0	6862.3	-237.4	-199398.2
	-1.4	-3533.3	5.4	12908.0	-1274.2	-238066.4
	-1.2	-3517.1	4.9	12237.2	-1158.7	-233777.5
	-2.0	-3513.8	4.8	12094.2	-1136.7	-232897.2
	-1.8	-3497.6	4.3	11423.4	-1021.1	-228608.3
	-4.3	-3184.0	-5.1	-1485.4	1192.0	-145793.6
	-4.1	-3167.8	-5.6	-2156.2	1307.5	-141504.7
	-4.8	-3164.5	-5.7	-2299.2	1329.5	-140624.4

	-4.7	-3148.3	-6.2	-2970.0	1445.1	-136335.5
	-4.1	-3294.6	-1.7	3075.7	408.2	-175003.7
	-3.9	-3278.4	-2.2	2404.9	523.8	-170714.8
	-4.7	-3275.1	-2.3	2261.9	545.8	-169834.5
	-4.5	-3258.8	-2.8	1591.1	661.4	-165545.6
Asta	271	nod	125	124		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.6	-68.9	9.1	18128.0	534.3	34512.4
	-1.4	-16.3	7.0	16500.2	408.1	32211.7
	-1.3	-5.9	6.5	16146.1	378.1	31784.2
	-1.1	46.6	4.3	14518.4	251.9	29483.5
	-1.9	-427.6	23.7	29193.7	1385.5	50235.3
	-1.8	-375.0	21.6	27565.9	1259.4	47934.7
	-1.6	-364.7	21.1	27211.8	1229.3	47507.1
	-1.4	-312.1	18.9	25584.1	1103.2	45206.4
	-1.0	706.7	-22.3	-5722.1	-1310.1	461.2
	-0.8	759.3	-24.5	-7349.9	-1436.2	-1839.5
	-0.7	769.7	-25.0	-7703.9	-1466.3	-2267.0
	-0.5	822.3	-27.1	-9331.7	-1592.4	-4567.7
	-1.3	348.0	-7.8	5343.6	-458.8	16184.2
	-1.1	400.6	-9.9	3715.9	-585.0	13883.5
	-1.0	411.0	-10.4	3361.8	-615.0	13455.9
	-0.8	463.5	-12.6	1734.0	-741.2	11155.2
67.	-1.6	-696.5	9.1	18128.0	-80.2	9309.0
	-1.4	-643.9	7.0	16500.2	-61.3	10542.1
	-1.3	-633.5	6.5	16146.1	-58.6	10812.1
	-1.1	-580.9	4.3	14518.4	-39.7	12045.2
	-1.9	-1055.2	23.7	29193.7	-208.0	925.2
	-1.8	-1002.6	21.6	27565.9	-189.2	2158.3
	-1.6	-992.2	21.1	27211.8	-186.5	2428.3
	-1.4	-939.6	18.9	25584.1	-167.6	3661.4
	-1.0	79.1	-22.3	-5722.1	191.5	27382.0
	-0.8	131.7	-24.5	-7349.9	210.3	28615.1
	-0.7	142.1	-25.0	-7703.9	213.1	28885.1
	-0.5	194.7	-27.1	-9331.7	231.9	30118.2
	-1.3	-279.6	-7.8	5343.6	63.6	18998.2
	-1.1	-227.0	-9.9	3715.9	82.4	20231.3
	-1.0	-216.6	-10.4	3361.8	85.2	20501.3
	-0.8	-164.0	-12.6	1734.0	104.0	21734.4
134.	-1.6	-1415.9	9.1	18128.0	-694.4	-61155.0
	-1.4	-1363.3	7.0	16500.2	-530.6	-56388.1
	-1.3	-1352.9	6.5	16146.1	-495.2	-55420.8
	-1.1	-1300.3	4.3	14518.4	-331.3	-50654.0
	-1.9	-1774.6	23.7	29193.7	-1801.4	-93645.5
	-1.8	-1722.0	21.6	27565.9	-1637.5	-88878.7
	-1.6	-1711.6	21.1	27211.8	-1602.1	-87911.4
	-1.4	-1659.1	18.9	25584.1	-1438.3	-83144.5
	-1.0	-640.3	-22.3	-5722.1	1692.9	9041.7
	-0.8	-587.7	-24.5	-7349.9	1856.8	13808.6
	-0.7	-577.3	-25.0	-7703.9	1892.2	14775.9
	-0.5	-524.7	-27.1	-9331.7	2056.0	19542.7
	-1.3	-999.0	-7.8	5343.6	585.9	-23448.8
	-1.1	-946.4	-9.9	3715.9	749.8	-18682.0
	-1.0	-936.0	-10.4	3361.8	785.2	-17714.7
	-0.8	-883.4	-12.6	1734.0	949.0	-12947.8
Asta	272	nod	87	88		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4.9	3308.6	3.3	4062.1	545.6	-137561.7
	-4.7	3295.1	2.5	3974.8	416.9	-135204.9
	-4.7	3292.3	2.4	3957.5	395.8	-134717.3
	-4.6	3278.9	1.6	3870.1	267.0	-132360.6
	-4.0	3400.0	8.6	4653.2	1415.3	-153578.8
	-3.8	3386.6	7.8	4565.9	1286.6	-151222.1
	-3.8	3383.8	7.7	4548.6	1265.5	-150734.5
	-3.7	3370.3	6.9	4461.3	1136.7	-148377.7
	0.6	3113.1	-8.0	2792.2	-1326.6	-103335.1
	0.7	3099.6	-8.8	2704.9	-1455.4	-100978.4
	0.7	3096.9	-8.9	2687.6	-1476.5	-100490.7
	0.8	3083.4	-9.7	2600.3	-1605.2	-98134.0
	1.5	3204.6	-2.8	3383.4	-456.9	-119352.3
	1.6	3191.1	-3.5	3296.0	-585.6	-116995.6
	1.6	3188.3	-3.7	3278.7	-606.7	-116507.9
	1.8	3174.9	-4.5	3191.4	-735.5	-114151.2
165.	-4.9	-241.4	3.3	4062.1	-1.1	115478.5
	-4.7	-254.9	2.5	3974.8	-1.2	115614.5
	-4.7	-257.7	2.4	3957.5	0.6	115642.9
	-4.6	-271.1	1.6	3870.1	0.5	115778.9
	-4.0	-149.9	8.6	4653.2	-1.2	114553.8
	-3.8	-163.4	7.8	4565.9	-1.3	114689.8
	-3.8	-166.2	7.7	4548.6	0.5	114718.2
	-3.7	-179.6	6.9	4461.3	0.4	114854.2
	0.6	-436.9	-8.0	2792.2	-1.6	117453.8
	0.7	-450.3	-8.8	2704.9	-1.7	117589.8
	0.7	-453.1	-8.9	2687.6	0.1	117618.2
	0.8	-466.6	-9.7	2600.3	0.0	117754.2
	1.5	-345.4	-2.8	3383.4	-1.7	116529.1
	1.6	-358.9	-3.5	3296.0	-1.8	116665.1
	1.6	-361.6	-3.7	3278.7	0.0	116693.5
	1.8	-375.1	-4.5	3191.4	-0.1	116829.5

330.	-4.9	-3791.4	3.3	4062.1	-547.8	-217227.2
	-4.7	-3804.8	2.5	3974.8	-419.3	-219311.9
	-4.7	-3807.6	2.4	3957.5	-395.6	-219742.8
	-4.6	-3821.1	1.6	3870.1	-267.1	-221827.5
	-4.0	-3699.9	8.6	4653.2	-1417.8	-203059.4
	-3.8	-3713.4	7.8	4565.9	-1289.2	-205144.2
	-3.8	-3716.2	7.7	4548.6	-1265.5	-205575.0
	-3.7	-3729.6	6.9	4461.3	-1137.0	-207659.8
	0.6	-3986.8	-8.0	2792.2	1324.4	-247503.2
	0.7	-4000.3	-8.8	2704.9	1453.0	-249587.9
	0.7	-4003.1	-8.9	2687.6	1476.6	-250018.8
	0.8	-4016.5	-9.7	2600.3	1605.2	-252103.5
	1.5	-3895.4	-2.8	3383.4	454.5	-233335.4
	1.6	-3908.8	-3.5	3296.0	583.0	-235420.2
	1.6	-3911.6	-3.7	3278.7	606.7	-235851.0
	1.8	-3925.1	-4.5	3191.4	735.3	-237935.7
Asta	273	nod1	88	89		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-5.0	3682.5	2.6	152.6	471.4	-214659.8
	-5.4	3671.2	2.0	4.0	358.6	-212774.1
	3.1	3668.8	1.9	-22.1	338.9	-212379.1
	2.7	3657.5	1.3	-170.7	226.2	-210493.4
	-3.8	3759.5	6.9	1156.9	1232.9	-227478.2
	-4.2	3748.1	6.3	1008.3	1120.1	-225592.5
	4.3	3745.8	6.2	982.2	1100.4	-225197.5
	3.9	3734.4	5.6	833.6	987.7	-223311.8
	-7.3	3518.1	-6.5	-2004.2	-1161.3	-187273.6
	-7.7	3506.8	-7.2	-2152.7	-1274.0	-185387.9
	0.8	3504.4	-7.2	-2178.9	-1293.7	-184992.9
	0.4	3493.1	-7.9	-2327.4	-1406.5	-183107.2
	-6.1	3595.1	-2.3	-999.9	-399.8	-200092.0
	-6.5	3583.8	-2.9	-1148.4	-512.5	-198206.3
	2.0	3581.4	-3.0	-1174.6	-532.2	-197811.3
	1.6	3570.1	-3.6	-1323.1	-644.9	-195925.6
165.	-5.0	132.5	2.6	152.6	35.6	100082.0
	-5.4	121.2	2.0	4.0	27.4	100100.2
	3.1	118.8	1.9	-22.1	22.4	100103.5
	2.7	107.5	1.3	-170.7	14.2	100121.6
	-3.8	209.5	6.9	1156.9	93.1	99958.8
	-4.2	198.2	6.3	1008.3	84.9	99976.9
	4.3	195.8	6.2	982.2	79.9	99980.2
	3.9	184.5	5.6	833.6	71.7	99998.3
	-7.3	-31.8	-6.5	-2004.2	-85.0	100345.1
	-7.7	-43.2	-7.2	-2152.7	-93.2	100363.2
	0.8	-45.5	-7.2	-2178.9	-98.2	100366.5
	0.4	-56.9	-7.9	-2327.4	-106.4	100384.7
	-6.1	45.1	-2.3	-999.9	-27.5	100221.8
	-6.5	33.8	-2.9	-1148.4	-35.7	100240.0
	2.0	31.4	-3.0	-1174.6	-40.7	100243.3
	1.6	20.1	-3.6	-1323.1	-48.9	100261.4
330.	-5.0	-3417.4	2.6	152.6	-400.7	-170922.0
	-5.4	-3428.8	2.0	4.0	-304.4	-172771.4
	3.1	-3431.1	1.9	-22.1	-293.8	-173159.9
	2.7	-3442.4	1.3	-170.7	-197.5	-175009.3
	-3.8	-3340.5	6.9	1156.9	-1047.2	-158350.2
	-4.2	-3351.8	6.3	1008.3	-950.9	-160199.6
	4.3	-3354.2	6.2	982.2	-940.3	-160588.0
	3.9	-3365.5	5.6	833.6	-844.0	-162437.5
	-7.3	-3581.8	-6.5	-2004.2	991.0	-197782.1
	-7.7	-3593.1	-7.2	-2152.7	1087.2	-199631.5
	0.8	-3595.5	-7.2	-2178.9	1097.9	-200019.9
	0.4	-3606.8	-7.9	-2327.4	1194.2	-201869.4
	-6.1	-3504.9	-2.3	-999.9	344.5	-185210.2
	-6.5	-3516.2	-2.9	-1148.4	440.7	-187059.7
	2.0	-3518.6	-3.0	-1174.6	451.4	-187448.1
	1.6	-3529.9	-3.6	-1323.1	547.7	-189297.5
Asta	274	nod1	89	90		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-9.9	3075.1	2.8	515.9	391.2	-159582.6
	-10.2	3060.2	2.1	394.2	298.7	-157491.8
	-2.2	3057.0	2.0	369.1	277.3	-157050.3
	-2.6	3042.1	1.3	247.3	184.8	-154959.5
	-7.8	3176.7	7.3	1340.2	1017.3	-173795.5
	-8.2	3161.7	6.6	1218.4	924.8	-171704.7
	-0.1	3158.6	6.5	1193.3	903.4	-171263.2
	-0.5	3143.6	5.8	1071.6	810.9	-169172.4
	-2.0	2858.2	-6.8	-1253.3	-949.8	-129215.5
	-2.3	2843.3	-7.5	-1375.0	-1042.3	-127124.8
	5.7	2840.1	-7.6	-1400.1	-1063.7	-126683.2
	5.3	2825.2	-8.3	-1521.9	-1156.2	-124592.5
	0.1	2959.7	-2.3	-429.0	-323.7	-143428.5
	-0.3	2944.8	-3.0	-550.8	-416.2	-141337.7
	7.8	2941.6	-3.1	-575.9	-437.7	-140896.2
	7.4	2926.7	-3.8	-697.6	-530.1	-138805.4
140.	-9.9	63.0	2.8	515.9	7.0	60088.5
	-10.2	48.1	2.1	394.2	7.1	60088.3
	-2.2	44.9	2.0	369.1	2.5	60087.6
	-2.6	30.0	1.3	247.3	2.7	60087.4
	-7.8	164.6	7.3	1340.2	5.5	60090.2

	-8.2	149.6	6.6	1218.4	5.7	60089.9
	-0.1	146.5	6.5	1193.3	1.0	60089.2
	-0.5	131.5	5.8	1071.6	1.2	60089.0
	-2.0	-153.9	-6.8	-1253.3	0.5	60084.6
	-2.3	-168.8	-7.5	-1375.0	0.7	60084.4
	5.7	-172.0	-7.6	-1400.1	-4.0	60083.7
	5.3	-186.9	-8.3	-1521.9	-3.8	60083.5
	0.1	-52.4	-2.3	-429.0	-1.0	60086.2
	-0.3	-67.3	-3.0	-550.8	-0.8	60086.0
	7.8	-70.5	-3.1	-575.9	-5.4	60085.3
	7.4	-85.4	-3.8	-697.6	-5.3	60085.1
280.	-9.9	-2949.1	2.8	515.9	-384.5	-141934.6
	-10.2	-2964.0	2.1	394.2	-291.7	-144025.8
	-2.2	-2967.2	2.0	369.1	-276.9	-144468.5
	-2.6	-2982.1	1.3	247.3	-184.1	-146559.7
	-7.8	-2847.5	7.3	1340.2	-1013.5	-127718.4
	-8.2	-2862.5	6.6	1218.4	-920.7	-129809.6
	-0.1	-2865.6	6.5	1193.3	-905.9	-130252.3
	-0.5	-2880.6	5.8	1071.6	-813.2	-132343.5
	-2.0	-3166.0	-6.8	-1253.3	955.5	-172309.3
	-2.3	-3180.9	-7.5	-1375.0	1048.3	-174400.6
	5.7	-3184.1	-7.6	-1400.1	1063.1	-174843.2
	5.3	-3199.0	-8.3	-1521.9	1155.8	-176934.5
	0.1	-3064.5	-2.3	-429.0	326.5	-158093.1
	-0.3	-3079.4	-3.0	-550.8	419.3	-160184.4
	7.8	-3082.6	-3.1	-575.9	434.0	-160627.0
	7.4	-3097.5	-3.8	-697.6	526.8	-162718.3
Asta	275	nod1	90	91		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-14.7	3512.7	2.7	1203.7	418.5	-186490.4
	-14.9	3501.5	2.1	1033.2	323.2	-184649.1
	-6.9	3499.1	1.9	993.5	293.1	-184257.5
	-7.2	3487.8	1.3	823.0	197.9	-182416.3
	-11.5	3589.3	7.0	2357.8	1057.8	-199006.7
	-11.8	3578.0	6.3	2187.3	962.5	-197165.4
	-3.8	3575.6	6.2	2147.6	932.4	-196773.8
	-4.0	3564.3	5.5	1977.1	837.2	-194932.6
	0.7	3349.1	-6.4	-1278.3	-975.1	-159744.7
	0.4	3337.9	-7.1	-1448.8	-1070.3	-157903.5
	8.4	3335.5	-7.3	-1488.5	-1100.5	-157511.9
	8.1	3324.2	-7.9	-1659.0	-1195.7	-155670.7
	3.8	3425.7	-2.2	-124.2	-335.8	-172261.1
	3.6	3414.4	-2.8	-294.7	-431.0	-170419.8
	11.6	3412.0	-3.0	-334.4	-461.2	-170028.2
	11.3	3400.8	-3.6	-504.9	-556.4	-168187.0
165.	-14.7	-37.3	2.7	1203.7	-34.1	100234.7
	-14.9	-48.5	2.1	1033.2	-25.5	100217.8
	-6.9	-50.9	1.9	993.5	-25.3	100213.7
	-7.2	-62.2	1.3	823.0	-16.8	100196.8
	-11.5	39.3	7.0	2357.8	-92.7	100349.3
	-11.8	28.0	6.3	2187.3	-84.1	100332.4
	-3.8	25.6	6.2	2147.6	-84.0	100328.2
	-4.0	14.4	5.5	1977.1	-75.4	100311.4
	0.7	-200.8	-6.4	-1278.3	87.5	99989.2
	0.4	-212.1	-7.1	-1448.8	96.1	99972.4
	8.4	-214.5	-7.3	-1488.5	96.2	99968.2
	8.1	-225.8	-7.9	-1659.0	104.8	99951.3
	3.8	-124.3	-2.2	-124.2	28.9	100103.8
	3.6	-135.6	-2.8	-294.7	37.4	100086.9
	11.6	-138.0	-3.0	-334.4	37.6	100082.8
	11.3	-149.2	-3.6	-504.9	46.1	100065.9
330.	-14.7	-3587.2	2.7	1203.7	-485.9	-198786.1
	-14.9	-3598.5	2.1	1033.2	-373.5	-200661.1
	-6.9	-3600.9	1.9	993.5	-343.6	-201061.0
	-7.2	-3612.2	1.3	823.0	-231.3	-202936.0
	-11.5	-3510.7	7.0	2357.8	-1242.4	-186040.7
	-11.8	-3521.9	6.3	2187.3	-1130.0	-187915.6
	-3.8	-3524.3	6.2	2147.6	-1100.2	-188315.6
	-4.0	-3535.6	5.5	1977.1	-987.8	-190190.5
	0.7	-3750.8	-6.4	-1278.3	1149.9	-226022.7
	0.4	-3762.1	-7.1	-1448.8	1262.3	-227897.7
	8.4	-3764.5	-7.3	-1488.5	1292.2	-228297.6
	8.1	-3775.7	-7.9	-1659.0	1404.5	-230172.5
	3.8	-3674.3	-2.2	-124.2	393.4	-213277.3
	3.6	-3685.5	-2.8	-294.7	505.8	-215152.2
	11.6	-3687.9	-3.0	-334.4	535.6	-215552.2
	11.3	-3699.2	-3.6	-504.9	648.0	-217427.1
Asta	276	nod1	91	92		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.9	3905.1	3.3	-3420.0	540.1	-234853.0
	0.7	3891.5	2.5	-3484.7	411.9	-232742.1
	1.1	3888.6	2.4	-3497.4	387.0	-232287.9
	0.9	3875.0	1.6	-3562.1	258.7	-230177.0
	0.2	3997.7	8.6	-2982.4	1411.5	-249200.3
	0.1	3984.1	7.8	-3047.1	1283.2	-247089.3
	0.4	3981.1	7.6	-3059.8	1258.3	-246635.1
	0.3	3967.5	6.8	-3124.5	1130.1	-244524.2
	-3.4	3707.2	-8.0	-4361.9	-1328.6	-204183.4
	-3.5	3693.6	-8.8	-4426.5	-1456.9	-202072.5

	-3.2	3690.7	-9.0	-4439.3	-1481.7	-201618.3
	-3.3	3677.1	-9.8	-4503.9	-1610.0	-199507.4
	-4.1	3799.8	-2.8	-3924.3	-457.2	-218530.6
	-4.2	3786.2	-3.5	-3989.0	-585.5	-216419.7
	-3.8	3783.3	-3.7	-4001.7	-610.4	-215965.5
	-4.0	3769.6	-4.5	-4066.4	-738.6	-213854.6
165.	0.9	355.1	3.3	-3420.0	-8.7	116619.2
	0.7	341.5	2.5	-3484.7	-8.7	116482.9
	1.1	338.6	2.4	-3497.4	-5.2	116453.7
	0.9	325.0	1.6	-3562.1	-5.2	116317.3
	0.2	447.7	8.6	-2982.4	-6.4	117546.5
	0.1	434.1	7.8	-3047.1	-6.5	117410.2
	0.4	431.2	7.6	-3059.8	-2.9	117380.9
	0.3	417.6	6.8	-3124.5	-3.0	117244.6
	-3.4	157.3	-8.0	-4361.9	1.9	114637.8
	-3.5	143.6	-8.8	-4426.5	1.8	114501.5
	-3.2	140.7	-9.0	-4439.3	5.4	114472.3
	-3.3	127.1	-9.8	-4503.9	5.3	114335.9
	-4.1	249.8	-2.8	-3924.3	4.1	115565.1
	-4.2	236.2	-3.5	-3989.0	4.1	115428.7
	-3.8	233.3	-3.7	-4001.7	7.6	115399.5
	-4.0	219.7	-4.5	-4066.4	7.6	115263.2
330.	0.9	-3194.8	3.3	-3420.0	-547.3	-117654.4
	0.7	-3208.4	2.5	-3484.7	-419.1	-120038.0
	1.1	-3211.4	2.4	-3497.4	-389.0	-120550.6
	0.9	-3225.0	1.6	-3562.1	-260.8	-122934.3
	0.2	-3102.3	8.6	-2982.4	-1414.2	-101452.6
	0.1	-3115.9	7.8	-3047.1	-1286.0	-103836.2
	0.4	-3118.8	7.6	-3059.8	-1255.9	-104348.8
	0.3	-3132.4	6.8	-3124.5	-1127.7	-106732.5
	-3.4	-3392.7	-8.0	-4361.9	1324.0	-152286.8
	-3.5	-3406.3	-8.8	-4426.5	1452.2	-154670.5
	-3.2	-3409.3	-9.0	-4439.3	1482.3	-155183.1
	-3.3	-3422.9	-9.8	-4503.9	1610.5	-157566.8
	-4.1	-3300.1	-2.8	-3924.3	457.1	-136085.0
	-4.2	-3313.8	-3.5	-3989.0	585.2	-138468.7
	-3.8	-3316.7	-3.7	-4001.7	615.4	-138981.3
	-4.0	-3330.3	-4.5	-4066.4	743.6	-141365.0
Asta	277	nod	93	92		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	3.3	1624.8	2.6	-12086.1	420.8	-91150.1
	3.3	1636.3	2.0	-12319.2	320.9	-92995.9
	1.6	1639.0	1.9	-12368.7	302.9	-93431.6
	1.6	1650.5	1.3	-12601.9	203.1	-95277.4
	2.1	1547.0	6.9	-10501.8	1097.1	-78638.7
	2.2	1558.5	6.2	-10734.9	997.3	-80484.5
	0.4	1561.2	6.1	-10784.4	979.3	-80920.2
	0.4	1572.7	5.5	-11017.5	879.4	-82766.0
	-2.5	1791.9	-6.4	-15473.4	-1028.0	-118015.6
	-2.5	1803.4	-7.1	-15706.5	-1127.8	-119861.4
	-4.2	1806.1	-7.2	-15756.0	-1145.8	-120297.1
	-4.2	1817.6	-7.8	-15989.1	-1245.7	-122142.9
	-3.7	1714.1	-2.2	-13889.1	-351.6	-105504.2
	-3.6	1725.6	-2.8	-14122.2	-451.5	-107350.0
	-5.4	1728.3	-2.9	-14171.7	-469.5	-107785.7
	-5.3	1739.8	-3.6	-14404.8	-569.3	-109631.5
170.	3.3	30.9	2.6	-12086.1	-26.4	49598.6
	3.3	42.4	2.0	-12319.2	-20.1	49704.8
	1.6	45.1	1.9	-12368.7	-18.7	49729.9
	1.6	56.6	1.3	-12601.9	-12.4	49836.0
	2.1	-46.9	6.9	-10501.8	-70.5	48879.4
	2.2	-35.5	6.2	-10734.9	-64.1	48985.6
	0.4	-32.7	6.1	-10784.4	-62.8	49010.7
	0.4	-21.3	5.5	-11017.5	-56.5	49116.8
	-2.5	198.0	-6.4	-15473.4	65.2	51143.5
	-2.5	209.5	-7.1	-15706.5	71.5	51249.7
	-4.2	212.2	-7.2	-15756.0	72.9	51274.8
	-4.2	223.7	-7.8	-15989.1	79.2	51380.9
	-3.7	120.2	-2.2	-13889.1	21.1	50424.4
	-3.6	131.6	-2.8	-14122.2	27.5	50530.5
	-5.4	134.4	-2.9	-14171.7	28.8	50555.6
	-5.3	145.8	-3.6	-14404.8	35.1	50661.8
340.	3.3	-1563.0	2.6	-12086.1	-473.4	-80648.7
	3.3	-1551.6	2.0	-12319.2	-360.9	-78590.7
	1.6	-1548.8	1.9	-12368.7	-340.3	-78104.7
	1.6	-1537.4	1.3	-12601.9	-227.7	-76046.6
	2.1	-1640.9	6.9	-10501.8	-1237.9	-94598.5
	2.2	-1629.4	6.2	-10734.9	-1125.4	-92540.4
	0.4	-1626.7	6.1	-10784.4	-1104.8	-92054.4
	0.4	-1615.2	5.5	-11017.5	-992.2	-89996.4
	-2.5	-1395.9	-6.4	-15473.4	1158.3	-50693.4
	-2.5	-1384.5	-7.1	-15706.5	1270.8	-48635.4
	-4.2	-1381.7	-7.2	-15756.0	1291.4	-48149.4
	-4.2	-1370.3	-7.8	-15989.1	1404.0	-46091.4
	-3.7	-1473.8	-2.2	-13889.1	393.8	-64643.2
	-3.6	-1462.3	-2.8	-14122.2	506.3	-62585.1
	-5.4	-1459.6	-2.9	-14171.7	526.9	-62099.2
	-5.3	-1448.1	-3.6	-14404.8	639.5	-60041.1
Asta	278	nod	94	93		

PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2.0	1529.9	1.6	7834.3	254.4	-73607.1
	-2.1	1541.1	1.2	7749.9	189.9	-75638.1
	-1.7	1543.8	1.2	7732.0	186.6	-76118.6
	-1.8	1555.0	0.8	7647.5	122.1	-78149.6
	-2.3	1453.7	4.4	8408.6	705.8	-59839.3
	-2.4	1465.0	4.0	8324.2	641.2	-61870.3
	-2.0	1467.6	4.0	8306.3	638.0	-62350.8
	-2.1	1478.8	3.6	8221.8	573.4	-64381.8
	-1.5	1693.4	-4.2	6606.7	-671.0	-103169.5
	-1.6	1704.6	-4.6	6522.2	-735.5	-105200.6
	-1.2	1707.3	-4.7	6504.3	-738.8	-105681.0
	-1.3	1718.5	-5.1	6419.9	-803.3	-107712.1
	-1.8	1617.2	-1.4	7181.0	-219.6	-89401.8
	-1.9	1628.5	-1.8	7096.5	-284.2	-91432.8
	-1.5	1631.1	-1.8	7078.7	-287.4	-91913.3
	-1.6	1642.3	-2.2	6994.2	-352.0	-93944.3
173.	-2.0	-87.3	1.6	7834.3	-23.6	50811.9
	-2.1	-76.1	1.2	7749.9	-18.2	50718.6
	-1.7	-73.4	1.2	7732.0	-16.6	50696.7
	-1.8	-62.2	0.8	7647.5	-11.2	50603.4
	-2.3	-163.5	4.4	8408.6	-60.3	51444.6
	-2.4	-152.2	4.0	8324.2	-54.9	51351.3
	-2.0	-149.6	4.0	8306.3	-53.2	51329.4
	-2.1	-138.3	3.6	8221.8	-47.9	51236.1
	-1.5	76.2	-4.2	6606.7	57.6	49453.6
	-1.6	87.4	-4.6	6522.2	62.9	49360.3
	-1.2	90.1	-4.7	6504.3	64.6	49338.3
	-1.3	101.3	-5.1	6419.9	70.0	49245.0
	-1.8	0.0	-1.4	7181.0	20.9	50086.3
	-1.9	11.3	-1.8	7096.5	26.3	49993.0
	-1.5	13.9	-1.8	7078.7	27.9	49971.0
	-1.6	25.2	-2.2	6994.2	33.3	49877.7
345.	-2.0	-1704.5	1.6	7834.3	-300.9	-103733.9
	-2.1	-1693.3	1.2	7749.9	-225.6	-101889.5
	-1.7	-1690.6	1.2	7732.0	-219.3	-101452.9
	-1.8	-1679.4	0.8	7647.5	-144.0	-99608.5
	-2.3	-1780.7	4.4	8408.6	-825.5	-116236.3
	-2.4	-1769.4	4.0	8324.2	-750.3	-114391.9
	-2.0	-1766.8	4.0	8306.3	-743.9	-113955.3
	-2.1	-1755.5	3.6	8221.8	-668.7	-112110.9
	-1.5	-1541.0	-4.2	6606.7	785.6	-76888.2
	-1.6	-1529.8	-4.6	6522.2	860.9	-75043.7
	-1.2	-1527.1	-4.7	6504.3	867.2	-74607.1
	-1.3	-1515.9	-5.1	6419.9	942.4	-72762.7
	-1.8	-1617.2	-1.4	7181.0	260.9	-89390.6
	-1.9	-1605.9	-1.8	7096.5	336.2	-87546.1
	-1.5	-1603.3	-1.8	7078.7	342.5	-87109.6
	-1.6	-1592.0	-2.2	6994.2	417.8	-85265.1
Asta	279	nodt	94	164		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	8.8	3214.2	7.9	-13692.2	588.4	-241141.7
	9.0	3199.5	6.0	-13780.6	449.0	-240134.3
	6.8	3196.2	5.6	-13798.8	420.4	-239904.3
	6.9	3181.5	3.8	-13887.3	280.9	-238896.9
	6.8	3314.0	20.5	-13091.8	1540.8	-247988.8
	7.0	3299.4	18.7	-13180.2	1401.4	-246981.4
	4.8	3296.0	18.3	-13198.4	1372.7	-246751.4
	4.9	3281.3	16.4	-13286.9	1233.3	-245744.0
	-4.8	3000.9	-19.3	-14981.0	-1456.8	-226492.8
	-4.6	2986.2	-21.1	-15069.4	-1596.2	-225485.4
	-6.9	2982.9	-21.5	-15087.7	-1624.9	-225255.3
	-6.7	2968.2	-23.4	-15176.1	-1764.3	-224248.0
	-6.8	3100.7	-6.6	-14380.6	-504.4	-233339.9
	-6.7	3086.0	-8.5	-14469.0	-643.8	-232332.5
	-8.9	3082.7	-8.9	-14487.3	-672.5	-232102.5
	-8.7	3068.0	-10.7	-14575.7	-811.9	-231095.1
88.	8.8	1799.8	7.9	-13692.2	-101.3	-21778.5
	9.0	1785.1	6.0	-13780.6	-78.4	-22055.5
	6.8	1781.8	5.6	-13798.8	-72.8	-22117.1
	6.9	1767.1	3.8	-13887.3	-49.9	-22394.1
	6.8	1899.6	20.5	-13091.8	-254.6	-19892.2
	7.0	1884.9	18.7	-13180.2	-231.7	-20169.2
	4.8	1881.6	18.3	-13198.4	-226.1	-20230.8
	4.9	1866.9	16.4	-13286.9	-203.2	-20507.8
	-4.8	1586.5	-19.3	-14981.0	230.3	-25796.2
	-4.6	1571.8	-21.1	-15069.4	253.2	-26073.2
	-6.9	1568.4	-21.5	-15087.7	258.8	-26134.8
	-6.7	1553.8	-23.4	-15176.1	281.7	-26411.8
	-6.8	1686.3	-6.6	-14380.6	77.0	-23909.9
	-6.7	1671.6	-8.5	-14469.0	99.9	-24186.8
	-8.9	1668.3	-8.9	-14487.3	105.5	-24248.5
	-8.7	1653.6	-10.7	-14575.7	128.4	-24525.5
175.	8.8	385.4	7.9	-13692.2	-791.1	73821.3
	9.0	370.7	6.0	-13780.6	-605.8	72260.0
	6.8	367.3	5.6	-13798.8	-566.0	71906.6
	6.9	352.7	3.8	-13887.3	-380.7	70345.3
	6.8	485.2	20.5	-13091.8	-2050.1	84441.1
	7.0	470.5	18.7	-13180.2	-1864.8	82879.8
	4.8	467.1	18.3	-13198.4	-1825.0	82526.4

	4.9	452.5	16.4	-13286.9	-1639.7	80965.1
	-4.8	172.0	-19.3	-14981.0	1917.3	51137.2
	-4.6	157.3	-21.1	-15069.4	2102.6	49575.9
	-6.9	154.0	-21.5	-15087.7	2142.4	49222.5
	-6.7	139.3	-23.4	-15176.1	2327.7	47661.2
	-6.8	271.8	-6.6	-14380.6	658.3	61756.9
	-6.7	257.2	-8.5	-14469.0	843.6	60195.6
	-8.9	253.8	-8.9	-14487.3	883.4	59842.2
	-8.7	239.1	-10.7	-14575.7	1068.7	58280.9
Asta	280	nod	165	164		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-10.6	1453.9	3.2	-41430.1	502.8	-67548.1
	-11.1	1467.9	2.4	-41551.9	380.5	-69667.6
	-7.1	1471.2	2.3	-41578.4	358.6	-70163.5
	-7.6	1485.2	1.5	-41700.1	236.3	-72283.0
	-8.7	1359.2	8.4	-40602.0	1330.4	-53176.7
	-9.1	1373.1	7.6	-40723.7	1208.1	-55296.2
	-5.2	1376.4	7.5	-40750.3	1186.2	-55792.2
	-5.7	1390.4	6.7	-40872.0	1063.9	-57911.6
	7.0	1657.5	-7.9	-43198.2	-1268.2	-98405.7
	6.5	1671.4	-8.7	-43319.9	-1390.5	-100525.2
	10.5	1674.7	-8.9	-43346.4	-1412.4	-101021.2
	10.0	1688.7	-9.6	-43468.2	-1534.7	-103140.7
	8.9	1562.7	-2.7	-42370.0	-440.6	-84034.3
	8.5	1576.6	-3.5	-42491.8	-562.9	-86153.8
	12.4	1579.9	-3.7	-42518.3	-584.8	-86649.8
	11.9	1593.9	-4.4	-42640.0	-707.1	-88769.3
162.	-10.6	-61.5	3.2	-41430.1	-10.9	44994.1
	-11.1	-47.5	2.4	-41551.9	-9.1	45134.3
	-7.1	-44.3	2.3	-41578.4	-6.9	45166.6
	-7.6	-30.3	1.5	-41700.1	-5.1	45306.8
	-8.7	-156.3	8.4	-40602.0	-24.4	44043.7
	-9.1	-142.3	7.6	-40723.7	-22.6	44183.9
	-5.2	-139.1	7.5	-40750.3	-20.3	44216.2
	-5.7	-125.1	6.7	-40872.0	-18.5	44356.4
	7.0	142.0	-7.9	-43198.2	16.4	47033.9
	6.5	156.0	-8.7	-43319.9	18.2	47174.1
	10.5	159.2	-8.9	-43346.4	20.5	47206.4
	10.0	173.2	-9.6	-43468.2	22.3	47346.6
	8.9	47.2	-2.7	-42370.0	3.0	46083.5
	8.5	61.2	-3.5	-42491.8	4.8	46223.7
	12.4	64.4	-3.7	-42518.3	7.0	46256.0
	11.9	78.4	-4.4	-42640.0	8.8	46396.2
323.	-10.6	-1577.0	3.2	-41430.1	-524.3	-87439.2
	-11.1	-1563.0	2.4	-41551.9	-398.5	-85039.3
	-7.1	-1559.7	2.3	-41578.4	-372.5	-84478.8
	-7.6	-1545.8	1.5	-41700.1	-246.6	-82078.9
	-8.7	-1671.8	8.4	-40602.0	-1378.8	-103711.4
	-9.1	-1657.8	7.6	-40723.7	-1252.9	-101311.5
	-5.2	-1654.5	7.5	-40750.3	-1227.0	-100751.0
	-5.7	-1640.6	6.7	-40872.0	-1101.1	-98351.1
	7.0	-1373.5	-7.9	-43198.2	1301.2	-52502.0
	6.5	-1359.5	-8.7	-43319.9	1427.0	-50102.1
	10.5	-1356.2	-8.9	-43346.4	1453.0	-49541.5
	10.0	-1342.3	-9.6	-43468.2	1578.9	-47141.6
	8.9	-1468.3	-2.7	-42370.0	446.7	-68774.1
	8.5	-1454.3	-3.5	-42491.8	572.6	-66374.2
	12.4	-1451.0	-3.7	-42518.3	598.5	-65813.7
	11.9	-1437.0	-4.4	-42640.0	724.4	-63413.8
Asta	281	nod	166	165		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-16.2	1437.0	3.1	-1273.8	499.6	-68779.6
	-17.4	1448.9	2.4	-1345.4	380.5	-70704.2
	-13.1	1451.6	2.2	-1361.5	348.8	-71157.2
	-14.3	1463.5	1.4	-1433.0	229.7	-73081.8
	-14.3	1356.9	8.2	-785.2	1324.3	-55727.7
	-15.5	1368.7	7.5	-856.7	1205.1	-57652.2
	-11.2	1371.5	7.3	-872.8	1173.5	-58105.3
	-12.4	1383.3	6.5	-944.4	1054.4	-60029.8
	11.9	1609.3	-7.5	-2319.2	-1208.6	-96822.6
	10.7	1621.1	-8.2	-2390.8	-1327.8	-98747.1
	15.0	1623.9	-8.4	-2406.8	-1359.4	-99200.2
	13.8	1635.7	-9.1	-2478.4	-1478.5	-101124.8
	13.8	1529.1	-2.4	-1830.5	-384.0	-83770.7
	12.6	1540.9	-3.1	-1902.1	-503.1	-85695.2
	16.9	1543.7	-3.3	-1918.2	-534.7	-86148.3
	15.7	1555.5	-4.1	-1989.7	-653.8	-88072.8
162.	-16.2	-78.9	3.1	-1273.8	-5.9	41025.0
	-17.4	-67.1	2.4	-1345.4	-7.0	41012.1
	-13.1	-64.3	2.2	-1361.5	-8.0	41008.7
	-14.3	-52.5	1.4	-1433.0	-9.0	40995.8
	-14.3	-159.1	8.2	-785.2	-4.0	41113.5
	-15.5	-147.3	7.5	-856.7	-5.0	41100.6
	-11.2	-144.5	7.3	-872.8	-6.0	41097.2
	-12.4	-132.6	6.5	-944.4	-7.0	41084.3
	11.9	93.3	-7.5	-2319.2	8.2	40833.4
	10.7	105.2	-8.2	-2390.8	7.2	40820.5
	15.0	107.9	-8.4	-2406.8	6.2	40817.1
	13.8	119.8	-9.1	-2478.4	5.2	40804.2

323.	13.8	13.2	-2.4	-1830.5	10.2	40921.9
	12.6	25.0	-3.1	-1902.1	9.2	40909.0
	16.9	27.8	-3.3	-1918.2	8.2	40905.6
	15.7	39.6	-4.1	-1989.7	7.1	40892.7
	-16.2	-1594.8	3.1	-1273.8	-500.9	-94297.5
	-17.4	-1583.0	2.4	-1345.4	-383.8	-92398.8
	-13.1	-1580.2	2.2	-1361.5	-354.0	-91952.5
	-14.3	-1568.4	1.4	-1433.0	-237.0	-90053.8
	-14.3	-1675.0	8.2	-785.2	-1321.6	-107172.4
	-15.5	-1663.2	7.5	-856.7	-1204.6	-105273.7
	-11.2	-1660.4	7.3	-872.8	-1174.8	-104827.4
	-12.4	-1648.6	6.5	-944.4	-1057.7	-102928.8
	11.9	-1422.6	-7.5	-2319.2	1214.4	-66637.6
	10.7	-1410.8	-8.2	-2390.8	1331.4	-64739.0
	15.0	-1408.0	-8.4	-2406.8	1361.2	-64292.6
	13.8	-1396.2	-9.1	-2478.4	1478.3	-62394.0
	13.8	-1502.8	-2.4	-1830.5	393.6	-79512.6
	12.6	-1490.9	-3.1	-1902.1	510.7	-77613.9
	16.9	-1488.2	-3.3	-1918.2	540.4	-77167.6
	15.7	-1476.3	-4.1	-1989.7	657.5	-75268.9
Asta	282	nod	167	166		
	PROGR.	TYT	TZZ	TORS	MYT	MZZ
0.	-17.9	1505.2	3.2	1918.7	513.5	-79519.6
	-18.7	1517.0	2.5	1851.3	399.4	-81415.7
162.	-15.5	1519.8	2.3	1836.8	374.0	-81863.2
	-16.3	1531.6	1.6	1769.4	259.9	-83759.3
	-14.7	1425.2	8.2	2380.7	1323.4	-66657.9
	-15.5	1437.0	7.5	2313.3	1209.3	-68553.9
	-12.3	1439.8	7.3	2298.8	1183.8	-69001.5
	-13.1	1451.6	6.6	2231.4	1069.7	-70897.5
	11.0	1677.2	-8.0	919.0	-1281.1	-107173.7
	10.2	1689.0	-8.7	851.6	-1395.2	-109069.8
	13.4	1691.8	-8.8	837.1	-1420.7	-109517.4
	12.6	1703.6	-9.5	769.7	-1534.8	-111413.4
	14.2	1597.2	-3.0	1381.1	-471.2	-94312.0
	13.4	1609.0	-3.7	1313.6	-585.3	-96208.0
	16.6	1611.8	-3.8	1299.1	-610.8	-96655.6
	15.8	1623.6	-4.5	1231.7	-724.9	-98551.7
	-17.9	-10.3	3.2	1918.7	-7.6	41309.0
	-18.7	1.5	2.5	1851.3	-7.5	41319.7
	-15.5	4.3	2.3	1836.8	-8.5	41321.8
	-16.3	16.1	1.6	1769.4	-8.3	41332.6
	-14.7	-90.3	8.2	2380.7	-7.2	41236.1
	-15.5	-78.5	7.5	2313.3	-7.1	41246.9
	-12.3	-75.7	7.3	2298.8	-8.1	41249.0
	-13.1	-63.9	6.6	2231.4	-7.9	41259.7
	11.0	161.8	-8.0	919.0	9.5	41464.5
323.	10.2	173.6	-8.7	851.6	9.6	41475.3
	13.4	176.3	-8.8	837.1	8.6	41477.4
	12.6	188.1	-9.5	769.7	8.8	41488.1
	14.2	81.8	-3.0	1381.1	9.9	41391.6
	13.4	93.6	-3.7	1313.6	10.0	41402.4
	16.6	96.3	-3.8	1299.1	9.0	41404.5
	15.8	108.1	-4.5	1231.7	9.2	41415.2
	-17.9	-1525.7	3.2	1918.7	-520.8	-82837.9
	-18.7	-1513.9	2.5	1851.3	-406.4	-80920.4
	-15.5	-1511.2	2.3	1836.8	-382.6	-80468.6
	-16.3	-1499.4	1.6	1769.4	-268.2	-78551.1
	-14.7	-1605.7	8.2	2380.7	-1329.9	-95845.4
	-15.5	-1594.0	7.5	2313.3	-1215.5	-93927.9
	-12.3	-1591.2	7.3	2298.8	-1191.6	-93476.1
	-13.1	-1579.4	6.6	2231.4	-1077.2	-91558.6
	11.0	-1353.7	-8.0	919.0	1291.7	-54872.8
	10.2	-1341.9	-8.7	851.6	1406.1	-52955.2
	13.4	-1339.1	-8.8	837.1	1430.0	-52503.4
	12.6	-1327.3	-9.5	769.7	1544.4	-50585.9
	14.2	-1433.7	-3.0	1381.1	482.6	-67880.3
	13.4	-1421.9	-3.7	1313.6	597.0	-65962.7
	16.6	-1419.1	-3.8	1299.1	620.9	-65510.9
	15.8	-1407.3	-4.5	1231.7	735.3	-63593.4
Asta	283	nod	168	167		
	PROGR.	TYT	TZZ	TORS	MYT	MZZ
0.	-8.1	1540.4	3.3	36911.2	534.5	-82480.1
	-8.8	1553.9	2.5	36893.4	412.9	-84782.5
162.	-8.8	1557.1	2.4	36891.1	387.4	-85325.2
	-9.5	1570.6	1.6	36873.3	265.8	-87627.6
	-6.4	1448.8	8.4	37033.2	1370.6	-66855.7
	-7.1	1462.3	7.6	37015.5	1249.0	-69158.1
	-7.1	1465.5	7.5	37013.1	1223.5	-69700.8
	-7.8	1479.0	6.7	36995.3	1101.9	-72003.1
	7.8	1737.6	-7.8	36645.3	-1282.5	-116099.5
	7.2	1751.1	-8.6	36627.6	-1404.1	-118401.9
	7.1	1754.3	-8.7	36625.2	-1429.6	-118944.6
	6.5	1767.8	-9.5	36607.4	-1551.2	-121246.9
	9.5	1646.0	-2.7	36767.3	-446.4	-100475.1
	8.8	1659.5	-3.4	36749.6	-568.0	-102777.5
	8.8	1662.6	-3.6	36747.2	-593.5	-103320.1
	8.2	1676.2	-4.3	36729.4	-715.1	-105622.5
	-8.1	25.0	3.3	36911.2	7.1	44040.9

	-8.8	38.5	2.5	36893.4	6.5	43921.5
	-8.8	41.6	2.4	36891.1	6.0	43893.1
	-9.5	55.1	1.6	36873.3	5.5	43773.7
	-6.4	-66.7	8.4	37033.2	15.2	44851.2
	-7.1	-53.2	7.6	37015.5	14.7	44731.8
	-7.1	-50.0	7.5	37013.1	14.1	44703.4
	-7.8	-36.5	6.7	36995.3	13.6	44584.0
	7.8	222.1	-7.8	36645.3	-20.5	42296.4
	7.2	235.6	-8.6	36627.6	-21.0	42177.1
	7.1	238.8	-8.7	36625.2	-21.6	42148.6
	6.5	252.3	-9.5	36607.4	-22.1	42029.2
	9.5	130.5	-2.7	36767.3	-12.4	43106.8
	8.8	144.0	-3.4	36749.6	-12.9	42987.4
	8.8	147.2	-3.6	36747.2	-13.4	42958.9
	8.2	160.7	-4.3	36729.4	-14.0	42839.6
323.	-8.1	-1490.5	3.3	36911.2	-522.8	-74413.6
	-8.8	-1477.0	2.5	36893.4	-402.3	-72350.0
	-8.8	-1473.8	2.4	36891.1	-377.7	-71864.2
	-9.5	-1460.3	1.6	36873.3	-257.2	-69800.6
	-6.4	-1582.2	8.4	37033.2	-1342.7	-88417.4
	-7.1	-1568.7	7.6	37015.5	-1222.2	-86353.8
	-7.1	-1565.5	7.5	37013.1	-1197.6	-85868.0
	-7.8	-1552.0	6.7	36995.3	-1077.1	-83804.4
	7.8	-1293.3	-7.8	36645.3	1243.9	-44283.1
	7.2	-1279.8	-8.6	36627.6	1364.4	-42219.5
	7.1	-1276.6	-8.7	36625.2	1389.0	-41733.7
	6.5	-1263.1	-9.5	36607.4	1509.5	-39670.1
	9.5	-1385.0	-2.7	36767.3	424.0	-58286.9
	8.8	-1371.5	-3.4	36749.6	544.5	-56223.3
	8.8	-1368.3	-3.6	36747.2	569.1	-55737.5
	8.2	-1354.8	-4.3	36729.4	689.6	-53673.9
Asta	284	nod	109	168		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	14.0	2128.9	4.1	33643.5	567.8	-186545.1
	15.9	2145.1	3.1	33330.2	432.7	-188703.4
	17.2	2148.7	2.9	33264.8	404.0	-189198.0
	19.1	2164.9	1.9	32951.5	269.0	-191356.3
	13.7	2018.4	10.6	35769.6	1477.4	-171864.3
	15.6	2034.7	9.7	35456.3	1342.3	-174022.7
	16.9	2038.3	9.4	35390.8	1313.6	-174517.2
	18.8	2054.5	8.5	35077.5	1178.6	-176675.6
	-27.7	2367.7	-9.9	29070.2	-1371.1	-218208.6
	-25.8	2383.9	-10.9	28756.9	-1506.1	-220366.9
	-24.5	2387.5	-11.1	28691.5	-1534.8	-220861.5
	-22.5	2403.7	-12.0	28378.2	-1669.9	-223019.8
	-28.0	2257.2	-3.4	31196.3	-461.5	-203527.9
	-26.1	2273.4	-4.3	30883.0	-596.5	-205686.2
	-24.8	2277.0	-4.5	30817.5	-625.2	-206180.7
	-22.8	2293.3	-5.5	30504.2	-760.3	-208339.1
168.	14.0	345.7	4.1	33643.5	-115.5	20584.8
	15.9	362.0	3.1	33330.2	-87.9	21142.5
	17.2	365.6	2.9	33264.8	-82.2	21250.9
	19.1	381.8	1.9	32951.5	-54.6	21808.7
	13.7	235.3	10.6	35769.6	-302.1	16758.4
	15.6	251.5	9.7	35456.3	-274.5	17316.2
	16.9	255.1	9.4	35390.8	-268.8	17424.6
	18.8	271.3	8.5	35077.5	-241.2	17982.3
	-27.7	584.5	-9.9	29070.2	287.5	28926.9
	-25.8	600.7	-10.9	28756.9	315.1	29484.7
	-24.5	604.3	-11.1	28691.5	320.8	29593.0
	-22.5	620.6	-12.0	28378.2	348.4	30150.8
	-28.0	474.1	-3.4	31196.3	100.9	25100.6
	-26.1	490.3	-4.3	30883.0	128.5	25658.3
	-24.8	493.9	-4.5	30817.5	134.2	25766.7
	-22.8	510.1	-5.5	30504.2	161.8	26324.5
335.	14.0	-1425.7	4.1	33643.5	-798.7	-70042.3
	15.9	-1409.5	3.1	33330.2	-608.4	-66768.5
	17.2	-1405.9	2.9	33264.8	-568.4	-66057.4
	19.1	-1389.7	1.9	32951.5	-378.1	-62783.5
	13.7	-1536.2	10.6	35769.6	-2081.5	-92375.7
	15.6	-1519.9	9.7	35456.3	-1891.2	-89101.9
	16.9	-1516.4	9.4	35390.8	-1851.2	-88390.8
	18.8	-1500.1	8.5	35077.5	-1660.9	-85117.0
	-27.7	-1186.9	-9.9	29070.2	1946.0	-21695.9
	-25.8	-1170.7	-10.9	28756.9	2136.3	-18422.1
	-24.5	-1167.1	-11.1	28691.5	2176.3	-17711.0
	-22.5	-1150.9	-12.0	28378.2	2366.6	-14437.2
	-28.0	-1297.4	-3.4	31196.3	663.2	-44029.4
	-26.1	-1281.2	-4.3	30883.0	853.5	-40755.6
	-24.8	-1277.6	-4.5	30817.5	893.5	-40044.5
	-22.8	-1261.4	-5.5	30504.2	1083.8	-36770.6
Asta	285	nod	110	109		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.7	2755.5	2.4	-7388.7	430.6	-161570.0
	-0.3	2767.1	1.9	-7715.0	332.6	-163277.5
	2.9	2769.9	1.8	-7783.7	315.8	-163696.4
	3.3	2781.5	1.2	-8110.0	217.8	-165403.9
	0.5	2676.9	6.2	-5163.3	1113.3	-149985.2
	0.8	2688.5	5.6	-5489.5	1015.3	-151692.7

	4.1	2691.3	5.5	-5558.3	998.5	-152111.6
	4.4	2702.9	5.0	-5884.5	900.5	-153819.1
	-11.5	2924.5	-5.9	-12203.7	-1059.9	-186495.5
	-11.2	2936.1	-6.4	-12529.9	-1157.8	-188203.0
	-7.9	2938.9	-6.5	-12598.7	-1174.6	-188621.9
	-7.6	2950.5	-7.1	-12924.9	-1272.6	-190329.5
	-10.4	2846.0	-2.1	-9978.2	-377.2	-174910.7
	-10.0	2857.5	-2.7	-10304.5	-475.2	-176618.2
	-6.8	2860.4	-2.7	-10373.2	-491.9	-177037.1
	-6.4	2872.0	-3.3	-10699.5	-589.9	-178744.6
155.	-0.7	274.9	2.4	-7388.7	60.7	81882.7
	-0.3	286.4	1.9	-7715.0	45.8	81969.9
	2.9	289.3	1.8	-7783.7	42.3	81990.6
	3.3	300.8	1.2	-8110.0	27.4	82077.7
	0.5	196.3	6.2	-5163.3	158.7	81290.5
	0.8	207.9	5.6	-5489.5	143.9	81377.6
	4.1	210.7	5.5	-5558.3	140.4	81398.3
	4.4	222.3	5.0	-5884.5	125.5	81485.4
	-11.5	443.9	-5.9	-12203.7	-146.2	83158.2
	-11.2	455.5	-6.4	-12529.9	-161.1	83245.4
	-7.9	458.3	-6.5	-12598.7	-164.6	83266.0
	-7.6	469.9	-7.1	-12924.9	-179.4	83353.2
	-10.4	365.3	-2.1	-9978.2	-48.1	82565.9
	-10.0	376.9	-2.7	-10304.5	-63.0	82653.1
	-6.8	379.7	-2.7	-10373.2	-66.5	82673.7
	-6.4	391.3	-3.3	-10699.5	-81.4	82760.9
310.	-0.7	-2871.6	2.4	-7388.7	-309.8	-110767.8
	-0.3	-2860.1	1.9	-7715.0	-241.5	-108886.0
	2.9	-2857.2	1.8	-7783.7	-231.7	-108425.7
	3.3	-2845.7	1.2	-8110.0	-163.4	-106543.9
	0.5	-2950.2	6.2	-5163.3	-796.3	-123537.1
	0.8	-2938.6	5.6	-5489.5	-728.0	-121655.3
	4.1	-2935.8	5.5	-5558.3	-718.2	-121195.1
	4.4	-2924.2	5.0	-5884.5	-650.0	-119313.2
	-11.5	-2702.6	-5.9	-12203.7	767.9	-83291.4
	-11.2	-2691.0	-6.4	-12529.9	836.1	-81409.5
	-7.9	-2688.2	-6.5	-12598.7	845.9	-80949.3
	-7.6	-2676.6	-7.1	-12924.9	914.2	-79067.5
	-10.4	-2781.2	-2.1	-9978.2	281.3	-96060.7
	-10.0	-2769.6	-2.7	-10304.5	349.6	-94178.9
	-6.8	-2766.8	-2.7	-10373.2	359.4	-93718.6
	-6.4	-2755.2	-3.3	-10699.5	427.7	-91836.8
Asta	286	nod1	111	110		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	2.4	2345.9	2.1	16697.9	252.3	-138511.2
	2.8	2357.1	1.6	16835.5	195.8	-140354.2
	4.6	2359.8	1.5	16861.4	186.0	-140788.3
	5.1	2371.0	1.0	16999.0	129.5	-142631.3
	2.9	2269.9	5.3	15754.5	646.6	-125992.0
	3.4	2281.1	4.9	15892.1	590.1	-127835.0
	5.1	2283.8	4.8	15917.9	580.4	-128269.1
	5.6	2295.0	4.3	16055.5	523.8	-130112.1
	-7.8	2509.5	-5.0	18751.3	-609.9	-165479.9
	-7.4	2520.7	-5.5	18888.9	-666.4	-167322.9
	-5.6	2523.4	-5.6	18914.7	-676.1	-167757.0
	-5.1	2534.6	-6.0	19052.3	-732.7	-169600.0
	-7.3	2433.5	-1.8	17807.9	-215.6	-152960.7
	-6.8	2444.7	-2.2	17945.4	-272.1	-154803.7
	-5.1	2447.4	-2.3	17971.3	-281.8	-155237.8
	-4.6	2458.6	-2.8	18108.9	-338.4	-157080.8
157.	2.4	132.5	2.1	16697.9	-73.0	68839.0
	2.8	143.7	1.6	16835.5	-55.2	68754.0
	4.6	146.3	1.5	16861.4	-51.6	68738.9
	5.1	157.5	1.0	16999.0	-33.8	68653.9
	2.9	56.5	5.3	15754.5	-191.1	69421.3
	3.4	67.7	4.9	15892.1	-173.3	69336.3
	5.1	70.4	4.8	15917.9	-169.6	69321.3
	5.6	81.5	4.3	16055.5	-151.9	69236.3
	-7.8	296.1	-5.0	18751.3	177.5	67573.4
	-7.4	307.3	-5.5	18888.9	195.3	67488.4
	-5.6	309.9	-5.6	18914.7	199.0	67473.4
	-5.1	321.1	-6.0	19052.3	216.8	67388.4
	-7.3	220.1	-1.8	17807.9	59.5	68155.8
	-6.8	231.3	-2.2	17945.4	77.3	68070.8
	-5.1	234.0	-2.3	17971.3	80.9	68055.7
	-4.6	245.2	-2.8	18108.9	98.7	67970.8
314.	2.4	-3048.9	2.1	16697.9	-398.1	-147574.1
	2.8	-3037.7	1.6	16835.5	-306.0	-145901.1
	4.6	-3035.0	1.5	16861.4	-289.0	-145496.8
	5.1	-3023.9	1.0	16999.0	-196.9	-143823.8
	2.9	-3124.9	5.3	15754.5	-1028.5	-158928.6
	3.4	-3113.7	4.9	15892.1	-936.5	-157255.6
	5.1	-3111.0	4.8	15917.9	-919.4	-156851.3
	5.6	-3099.8	4.3	16055.5	-827.4	-155178.3
	-7.8	-2885.3	-5.0	18751.3	964.8	-123136.1
	-7.4	-2874.1	-5.5	18888.9	1056.9	-121463.1
	-5.6	-2871.4	-5.6	18914.7	1073.9	-121058.9
	-5.1	-2860.2	-6.0	19052.3	1166.0	-119385.8
	-7.3	-2961.3	-1.8	17807.9	334.4	-134490.7
	-6.8	-2950.1	-2.2	17945.4	426.5	-132817.7

	-5.1	-2947.4	-2.3	17971.3	443.5	-132413.4
	-4.6	-2936.2	-2.8	18108.9	535.6	-130740.4
Asta	287	nod	111	156		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	9.9	2181.8	2.5	868.4	432.2	-11370.9
	12.3	2184.9	1.9	-930.8	334.4	-9250.1
	15.3	2184.9	1.8	-1310.6	317.8	-8588.5
	17.6	2188.0	1.3	-3109.8	220.0	-6467.7
	8.4	2160.2	6.5	13118.4	1120.8	-25626.7
	10.8	2163.3	5.9	11319.2	1023.0	-23505.9
	13.8	2163.3	5.8	10939.4	1006.5	-22844.2
	16.1	2166.4	5.2	9140.2	908.6	-20723.5
	-25.0	2229.9	-6.1	-25574.0	-1065.8	19013.0
	-22.6	2233.0	-6.7	-27373.2	-1163.7	21133.8
	-19.6	2233.0	-6.8	-27753.0	-1180.2	21795.4
	-17.3	2236.1	-7.4	-29552.2	-1278.0	23916.2
	-26.5	2208.3	-2.2	-13324.0	-377.2	4757.2
	-24.1	2211.4	-2.7	-15123.2	-475.0	6878.0
	-21.1	2211.4	-2.8	-15503.0	-491.6	7539.6
	-18.8	2214.5	-3.4	-17302.2	-589.4	9660.4
214.	9.9	-632.9	2.5	868.4	-102.5	154732.1
	12.3	-629.8	1.9	-930.8	-78.5	157511.1
	15.3	-629.8	1.8	-1310.6	-73.6	158157.5
	17.6	-626.8	1.3	-3109.8	-49.7	160936.5
	8.4	-654.5	6.5	13118.4	-266.4	135849.3
	10.8	-651.4	5.9	11319.2	-242.4	138628.3
	13.8	-651.4	5.8	10939.4	-237.5	139274.7
	16.1	-648.3	5.2	9140.2	-213.6	142053.7
	-25.0	-584.8	-6.1	-25574.0	248.0	195413.3
	-22.6	-581.7	-6.7	-27373.2	272.0	198192.3
	-19.6	-581.7	-6.8	-27753.0	276.8	198838.7
	-17.3	-578.7	-7.4	-29552.2	300.8	201617.7
	-26.5	-606.4	-2.2	-13324.0	84.1	176530.5
	-24.1	-603.3	-2.7	-15123.2	108.1	179309.4
	-21.1	-603.3	-2.8	-15503.0	112.9	179955.9
	-18.8	-600.2	-3.4	-17302.2	136.9	182734.9
429.	9.9	-3447.6	2.5	868.4	-637.0	-282798.2
	12.3	-3444.5	1.9	-930.8	-491.3	-279361.0
	15.3	-3444.5	1.8	-1310.6	-465.0	-278724.5
	17.6	-3441.5	1.3	-3109.8	-319.2	-275287.3
	8.4	-3469.2	6.5	13118.4	-1653.4	-306308.1
	10.8	-3466.1	5.9	11319.2	-1507.7	-302870.9
	13.8	-3466.1	5.8	10939.4	-1481.4	-302234.3
	16.1	-3463.0	5.2	9140.2	-1335.6	-298797.2
	-25.0	-3399.5	-6.1	-25574.0	1561.7	-231812.6
	-22.6	-3396.4	-6.7	-27373.2	1707.5	-228375.4
	-19.6	-3396.4	-6.8	-27753.0	1733.7	-227738.8
	-17.3	-3393.4	-7.4	-29552.2	1879.5	-224301.6
	-26.5	-3421.1	-2.2	-13324.0	545.3	-255322.4
	-24.1	-3418.0	-2.7	-15123.2	691.1	-251885.2
	-21.1	-3418.0	-2.8	-15503.0	717.3	-251248.7
	-18.8	-3414.9	-3.4	-17302.2	863.1	-247811.5
Asta	288	nod	122	156		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	1.7	1809.3	3.5	616.7	479.1	-79151.3
	2.7	1808.3	2.7	1442.8	365.1	-76703.0
	5.5	1808.6	2.5	1635.1	328.9	-76349.1
	6.5	1807.6	1.6	2461.3	214.9	-73900.9
	4.0	1816.8	9.1	-5004.8	1203.7	-96026.8
	5.0	1815.8	8.2	-4178.7	1089.7	-93578.6
	7.8	1816.1	8.0	-3986.4	1053.5	-93224.6
	8.8	1815.1	7.2	-3160.3	939.5	-90776.4
	-12.1	1790.8	-8.4	12745.9	-1105.1	-42274.4
	-11.2	1789.8	-9.3	13572.0	-1219.0	-39826.1
	-8.3	1790.0	-9.5	13764.3	-1255.3	-39472.2
	-7.4	1789.1	-10.3	14590.5	-1369.3	-37024.0
	-9.8	1798.3	-2.9	7124.4	-380.4	-59149.9
	-8.8	1797.3	-3.7	7950.5	-494.4	-56701.7
	-6.0	1797.5	-3.9	8142.8	-530.7	-56347.7
	-5.0	1796.6	-4.8	8968.9	-644.7	-53899.5
173.	1.7	-460.7	3.5	616.7	-135.4	37423.0
	2.7	-461.6	2.7	1442.8	-102.9	39704.8
	5.5	-461.4	2.5	1635.1	-99.8	40152.9
	6.5	-462.4	1.6	2461.3	-67.3	42434.7
	4.0	-453.2	9.1	-5004.8	-367.0	21845.3
	5.0	-454.1	8.2	-4178.7	-334.6	24127.1
	7.8	-453.9	8.0	-3986.4	-331.4	24575.1
	8.8	-454.9	7.2	-3160.3	-299.0	26857.0
	-12.1	-479.2	-8.4	12745.9	349.2	71139.3
	-11.2	-480.1	-9.3	13572.0	381.7	73421.1
	-8.3	-479.9	-9.5	13764.3	384.8	73869.2
	-7.4	-480.9	-10.3	14590.5	417.2	76151.0
	-9.8	-471.7	-2.9	7124.4	117.5	55561.6
	-8.8	-472.6	-3.7	7950.5	150.0	57843.4
	-6.0	-472.4	-3.9	8142.8	153.1	58291.5
	-5.0	-473.4	-4.8	8968.9	185.6	60573.3
346.	1.7	-2730.6	3.5	616.7	-748.1	-238598.5
	2.7	-2731.6	2.7	1442.8	-569.2	-236483.1
	5.5	-2731.4	2.5	1635.1	-527.9	-235936.6

	6.5	-2732.3	1.6	2461.3	-349.0	-233821.1
	4.0	-2723.1	9.1	-5004.8	-1936.1	-252878.4
	5.0	-2724.1	8.2	-4178.7	-1757.1	-250763.0
	7.8	-2723.9	8.0	-3986.4	-1715.8	-250216.5
	8.8	-2724.8	7.2	-3160.3	-1536.9	-248101.0
	-12.1	-2749.1	-8.4	12745.9	1802.9	-208034.2
	-11.2	-2750.1	-9.3	13572.0	1981.8	-205918.7
	-8.3	-2749.9	-9.5	13764.3	2023.2	-205372.2
	-7.4	-2750.8	-10.3	14590.5	2202.1	-203256.8
	-9.8	-2741.6	-2.9	7124.4	615.0	-222314.1
	-8.8	-2742.6	-3.7	7950.5	793.9	-220198.6
	-6.0	-2742.4	-3.9	8142.8	835.2	-219652.1
	-5.0	-2743.3	-4.8	8968.9	1014.1	-217536.7
Asta	289	nod	122	154		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.6	-571.6	13.4	-580.0	387.2	20121.1
	-1.7	-521.9	10.3	-971.2	296.6	18344.1
	-2.0	-512.2	9.7	-1064.8	282.7	17983.5
	-2.1	-462.5	6.6	-1456.1	192.1	16206.5
	-2.0	-910.9	35.4	2068.4	1023.7	32244.2
	-2.1	-861.2	32.2	1677.2	933.1	30467.2
	-2.4	-851.5	31.6	1583.5	919.2	30106.7
	-2.5	-801.8	28.5	1192.3	828.6	28329.7
	2.2	163.3	-33.4	-6259.6	-973.7	-6105.9
	2.1	213.0	-36.6	-6650.8	-1064.2	-7882.9
	1.9	222.7	-37.2	-6744.4	-1078.2	-8243.4
	1.8	272.4	-40.3	-7135.7	-1168.8	-10020.4
	1.9	-176.0	-11.5	-3611.2	-337.2	6017.3
	1.8	-126.3	-14.7	-4002.4	-427.7	4240.3
	1.5	-116.6	-15.2	-4096.1	-441.7	3879.7
	1.4	-66.9	-18.4	-4487.3	-532.2	2102.7
40.	-1.6	-646.1	13.4	-580.0	-147.2	-4073.7
	-1.7	-596.4	10.3	-971.2	-112.0	-3876.6
	-2.0	-586.7	9.7	-1064.8	-104.0	-3850.4
	-2.1	-537.0	6.6	-1456.1	-68.8	-3653.2
	-2.0	-985.4	35.4	2068.4	-381.6	-5434.6
	-2.1	-935.7	32.2	1677.2	-346.4	-5237.5
	-2.4	-926.0	31.6	1583.5	-338.4	-5211.3
	-2.5	-876.3	28.5	1192.3	-303.2	-5014.2
	2.2	88.8	-33.4	-6259.6	355.3	-1096.4
	2.1	138.5	-36.6	-6650.8	390.5	-899.3
	1.9	148.2	-37.2	-6744.4	398.5	-873.1
	1.8	197.9	-40.3	-7135.7	433.7	-675.9
	1.9	-250.5	-11.5	-3611.2	120.9	-2457.3
	1.8	-200.8	-14.7	-4002.4	156.1	-2260.2
	1.5	-191.1	-15.2	-4096.1	164.1	-2234.0
	1.4	-141.4	-18.4	-4487.3	199.3	-2036.9
79.	-1.6	-720.6	13.4	-580.0	-681.5	-31229.0
	-1.7	-670.9	10.3	-971.2	-520.5	-29057.7
	-2.0	-661.2	9.7	-1064.8	-490.7	-28645.3
	-2.1	-611.5	6.6	-1456.1	-329.8	-26474.0
	-2.0	-1059.9	35.4	2068.4	-1786.8	-46074.0
	-2.1	-1010.2	32.2	1677.2	-1625.9	-43902.7
	-2.4	-1000.5	31.6	1583.5	-1596.0	-43490.3
	-2.5	-950.8	28.5	1192.3	-1435.1	-41319.0
	2.2	14.3	-33.4	-6259.6	1684.4	951.9
	2.1	64.0	-36.6	-6650.8	1845.3	3123.2
	1.9	73.7	-37.2	-6744.4	1875.2	3535.6
	1.8	123.4	-40.3	-7135.7	2036.1	5706.9
	1.9	-325.0	-11.5	-3611.2	579.1	-13893.1
	1.8	-275.3	-14.7	-4002.4	740.0	-11721.8
	1.5	-265.6	-15.2	-4096.1	769.9	-11309.5
	1.4	-215.9	-18.4	-4487.3	930.8	-9138.2
Asta	301	nod	129	145		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.0	3324.9	2.8	9062.2	453.2	-195335.8
	-0.9	3350.9	2.1	8896.9	347.0	-200239.6
	-1.3	3356.3	2.0	8861.3	326.3	-201253.9
	-1.2	3382.3	1.3	8696.0	220.1	-206157.8
	-1.1	3147.9	7.2	10184.4	1174.5	-161956.0
	-1.0	3173.9	6.5	10019.1	1068.3	-166859.9
	-1.5	3179.3	6.4	9983.5	1047.7	-167874.1
	-1.3	3205.3	5.8	9818.2	941.5	-172778.0
	-2.0	3706.8	-6.7	6647.1	-1098.9	-267364.6
	-1.9	3732.8	-7.4	6481.7	-1205.1	-272268.4
	-2.3	3738.2	-7.5	6446.1	-1225.7	-273282.7
	-2.2	3764.2	-8.2	6280.8	-1331.9	-278186.5
	-2.1	3529.8	-2.3	7769.3	-377.5	-233984.8
	-2.0	3555.8	-3.0	7603.9	-483.7	-238888.6
	-2.4	3561.2	-3.1	7568.3	-504.4	-239902.9
	-2.3	3587.2	-3.7	7403.0	-610.6	-244806.7
195.	-1.0	-55.5	2.8	9062.2	-86.2	121979.5
	-0.9	-29.5	2.1	8896.9	-65.9	122134.1
	-1.3	-24.1	2.0	8861.3	-61.7	122165.5
	-1.2	1.9	1.3	8696.0	-41.4	122320.1
	-1.1	-232.5	7.2	10184.4	-223.6	120926.4
	-1.0	-206.5	6.5	10019.1	-203.4	121081.0
	-1.5	-201.1	6.4	9983.5	-199.1	121112.4
	-1.3	-175.1	5.8	9818.2	-178.9	121267.0

	-2.0	326.4	-6.7	6647.1	209.7	124253.0
	-1.9	352.4	-7.4	6481.7	230.0	124407.6
	-2.3	357.8	-7.5	6446.1	234.2	124439.0
	-2.2	383.8	-8.2	6280.8	254.5	124593.6
	-2.1	149.4	-2.3	7769.3	72.3	123199.9
	-2.0	175.4	-3.0	7603.9	92.6	123354.5
	-2.4	180.8	-3.1	7568.3	96.8	123385.9
	-2.3	206.8	-3.7	7403.0	117.1	123540.5
389.	-1.0	-3391.5	2.8	9062.2	-625.6	-214045.6
	-0.9	-3365.5	2.1	8896.9	-478.8	-208832.5
	-1.3	-3360.1	2.0	8861.3	-449.7	-207755.5
	-1.2	-3334.1	1.3	8696.0	-303.0	-202542.4
	-1.1	-3568.4	7.2	10184.4	-1621.8	-249531.5
	-1.0	-3542.4	6.5	10019.1	-1475.1	-244318.5
	-1.5	-3537.1	6.4	9983.5	-1446.0	-243241.5
	-1.3	-3511.1	5.8	9818.2	-1299.2	-238028.4
	-2.0	-3009.5	-6.7	6647.1	1518.4	-137469.7
	-1.9	-2983.5	-7.4	6481.7	1665.1	-132256.7
	-2.3	-2978.2	-7.5	6446.1	1694.2	-131179.7
	-2.2	-2952.2	-8.2	6280.8	1840.9	-125966.6
	-2.1	-3186.5	-2.3	7769.3	522.1	-172955.7
	-2.0	-3160.5	-3.0	7603.9	668.8	-167742.6
	-2.4	-3155.2	-3.1	7568.3	697.9	-166665.7
	-2.3	-3129.2	-3.7	7403.0	844.7	-161452.6
Asta	302	nod1	141	129		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.3	2803.1	1.6	-5725.8	445.8	-187486.6
	-1.4	2820.9	1.2	-5884.1	341.0	-192081.6
	-1.2	2824.8	1.1	-5915.3	319.6	-193063.5
	-1.3	2842.6	0.8	-6073.6	214.7	-197658.5
	-1.3	2681.5	4.1	-4649.9	1156.0	-156232.5
	-1.4	2699.4	3.7	-4808.1	1051.2	-160827.6
	-1.2	2703.2	3.6	-4839.4	1029.7	-161809.5
	-1.3	2721.1	3.3	-4997.7	924.9	-166404.5
	-1.2	3065.1	-3.8	-8045.7	-1083.3	-254883.7
	-1.3	3083.0	-4.2	-8204.0	-1188.1	-259478.8
	-1.2	3086.8	-4.3	-8235.2	-1209.5	-260460.6
	-1.2	3104.7	-4.6	-8393.5	-1314.4	-265055.7
	-1.2	2943.6	-1.3	-6969.8	-373.1	-223629.7
	-1.3	2961.5	-1.7	-7128.0	-477.9	-228224.7
	-1.1	2965.3	-1.8	-7159.3	-499.4	-229206.6
	-1.2	2983.2	-2.1	-7317.6	-604.2	-233801.6
248.	-1.3	-190.9	1.6	-5725.8	56.0	119434.0
	-1.4	-173.0	1.2	-5884.1	42.9	119270.6
	-1.2	-169.2	1.1	-5915.3	40.4	119235.5
	-1.3	-151.3	0.8	-6073.6	27.3	119072.1
	-1.3	-312.4	4.1	-4649.9	145.3	120545.7
	-1.4	-294.5	3.7	-4808.1	132.2	120382.2
	-1.2	-290.7	3.6	-4839.4	129.7	120347.2
	-1.3	-272.8	3.3	-4997.7	116.5	120183.8
	-1.2	71.2	-3.8	-8045.7	-136.1	117036.6
	-1.3	89.1	-4.2	-8204.0	-149.2	116873.2
	-1.2	92.9	-4.3	-8235.2	-151.7	116838.1
	-1.2	110.8	-4.6	-8393.5	-164.8	116674.7
	-1.2	-50.3	-1.3	-6969.8	-46.8	118148.3
	-1.3	-32.5	-1.7	-7128.0	-59.9	117984.8
	-1.1	-28.6	-1.8	-7159.3	-62.4	117949.8
	-1.2	-10.8	-2.1	-7317.6	-75.6	117786.4
496.	-1.3	-2361.8	1.6	-5725.8	-333.8	-214121.1
	-1.4	-2343.9	1.2	-5884.1	-255.2	-209852.9
	-1.2	-2340.1	1.1	-5915.3	-238.8	-208941.1
	-1.3	-2322.2	0.8	-6073.6	-160.2	-204672.9
	-1.3	-2483.3	4.1	-4649.9	-865.4	-243151.7
	-1.4	-2465.4	3.7	-4808.1	-786.8	-238883.5
	-1.2	-2461.6	3.6	-4839.4	-770.4	-237971.8
	-1.3	-2443.8	3.3	-4997.7	-691.8	-233703.6
	-1.2	-2099.7	-3.8	-8045.7	811.1	-151518.7
	-1.3	-2081.8	-4.2	-8204.0	889.7	-147250.5
	-1.2	-2078.0	-4.3	-8235.2	906.1	-146338.8
	-1.2	-2060.1	-4.6	-8393.5	984.7	-142070.6
	-1.2	-2221.2	-1.3	-6969.8	279.5	-180549.4
	-1.3	-2203.4	-1.7	-7128.0	358.1	-176281.2
	-1.1	-2199.5	-1.8	-7159.3	374.5	-175369.4
	-1.2	-2181.7	-2.1	-7317.6	453.0	-171101.2
Asta	303	nod1	136	141		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.2	413.3	1.9	5090.7	458.7	-20687.0
	0.0	422.8	1.5	4911.6	351.2	-23036.6
	0.6	424.6	1.4	4874.1	329.2	-23480.3
	0.8	434.2	0.9	4694.9	221.7	-25829.9
	0.4	348.2	5.0	6307.7	1189.6	-4678.4
	0.6	357.8	4.5	6128.6	1082.1	-7028.0
	1.3	359.6	4.5	6091.1	1060.1	-7471.7
	1.5	369.1	4.0	5911.9	952.7	-9821.3
	-1.7	553.8	-4.7	2468.8	-1115.4	-55267.3
	-1.5	563.4	-5.1	2289.6	-1222.9	-57616.9
	-0.9	565.2	-5.2	2252.1	-1244.9	-58060.6
	-0.7	574.7	-5.7	2073.0	-1352.4	-60410.2
	-1.1	488.8	-1.6	3685.8	-384.5	-39258.6

	-0.9	498.3	-2.1	3506.6	-492.0	-41608.2
	-0.2	500.1	-2.2	3469.2	-513.9	-42052.0
	0.0	509.7	-2.6	3290.0	-621.4	-44401.6
250.	-0.2	-55.5	1.9	5090.7	-23.4	24040.3
	0.0	-45.9	1.5	4911.6	-17.9	24078.2
	0.6	-44.1	1.4	4874.1	-16.7	24085.7
	0.8	-34.6	0.9	4694.9	-11.2	24123.7
	0.4	-120.5	5.0	6307.7	-60.7	23781.2
	0.6	-111.0	4.5	6128.6	-55.2	23819.2
	1.3	-109.2	4.5	6091.1	-54.0	23826.7
	1.5	-99.6	4.0	5911.9	-48.5	23864.6
	-1.7	85.1	-4.7	2468.8	56.9	24599.6
	-1.5	94.6	-5.1	2289.6	62.4	24637.6
	-0.9	96.5	-5.2	2252.1	63.6	24645.1
	-0.7	106.0	-5.7	2073.0	69.1	24683.0
	-1.1	20.0	-1.6	3685.8	19.5	24340.6
	-0.9	29.6	-2.1	3506.6	25.1	24378.6
	-0.2	31.4	-2.2	3469.2	26.2	24386.0
500.	0.0	40.9	-2.6	3290.0	31.8	24424.0
	-0.2	-524.2	1.9	5090.7	-505.5	-48417.7
	0.0	-514.7	1.5	4911.6	-387.0	-45992.2
	0.6	-512.9	1.4	4874.1	-362.7	-45533.5
	0.8	-503.3	0.9	4694.9	-244.1	-43108.0
	0.4	-589.3	5.0	6307.7	-1311.1	-64944.4
	0.6	-579.7	4.5	6128.6	-1192.6	-62518.9
	1.3	-577.9	4.5	6091.1	-1168.2	-62060.2
	1.5	-568.4	4.0	5911.9	-1049.7	-59634.7
	-1.7	-383.6	-4.7	2468.8	1229.1	-12718.7
	-1.5	-374.1	-5.1	2289.6	1347.7	-10293.2
	-0.9	-372.3	-5.2	2252.1	1372.0	-9834.5
	-0.7	-362.7	-5.7	2073.0	1490.5	-7409.0
	-1.1	-448.7	-1.6	3685.8	423.5	-29245.4
	-0.9	-439.2	-2.1	3506.6	542.1	-26819.9
	-0.2	-437.4	-2.2	3469.2	566.4	-26361.2
	0.0	-427.8	-2.6	3290.0	684.9	-23935.7
Asta	304	nod	136	137		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.6	1812.1	3.3	1664.5	545.8	-67674.8
	-0.8	1844.1	2.5	896.1	417.4	-72348.8
	-0.8	1851.1	2.3	745.7	391.0	-73370.1
	-1.0	1883.1	1.6	-22.7	262.6	-78044.1
	-0.7	1594.4	8.5	6897.5	1415.3	-35876.3
	-0.9	1626.4	7.7	6129.1	1286.9	-40550.3
	-0.9	1633.4	7.6	5978.7	1260.5	-41571.6
	-1.1	1665.4	6.8	5210.3	1132.1	-46245.6
	-0.1	2281.5	-7.9	-9634.6	-1326.0	-136255.0
	-0.3	2313.5	-8.7	-10403.0	-1454.4	-140928.9
	-0.3	2320.5	-8.9	-10553.4	-1480.9	-141950.3
	-0.5	2352.5	-9.6	-11321.8	-1609.3	-146624.3
	-0.2	2063.8	-2.7	-4401.7	-456.5	-104456.4
	-0.4	2095.8	-3.5	-5170.0	-584.9	-109130.4
	-0.4	2102.8	-3.7	-5320.4	-611.4	-110151.7
	-0.6	2134.8	-4.4	-6088.8	-739.7	-114825.7
132.	-0.6	-12.0	3.3	1664.5	112.4	55625.4
	-0.8	20.0	2.5	896.1	86.1	55190.0
	-0.8	27.0	2.3	745.7	80.6	55096.7
	-1.0	59.0	1.6	-22.7	54.3	54661.4
	-0.7	-229.7	8.5	6897.5	291.5	58587.7
	-0.9	-197.7	7.7	6129.1	265.2	58152.3
	-0.9	-190.7	7.6	5978.7	259.7	58059.0
	-1.1	-158.7	6.8	5210.3	233.4	57623.7
	-0.1	457.5	-7.9	-9634.6	-273.5	49235.8
	-0.3	489.5	-8.7	-10403.0	-299.8	48800.4
	-0.3	496.5	-8.9	-10553.4	-305.3	48707.1
	-0.5	528.5	-9.6	-11321.8	-331.7	48271.8
	-0.2	239.8	-2.7	-4401.7	-94.4	52198.1
	-0.4	271.8	-3.5	-5170.0	-120.7	51762.7
	-0.4	278.8	-3.7	-5320.4	-126.2	51669.4
	-0.6	310.8	-4.4	-6088.8	-152.5	51234.1
265.	-0.6	-2204.3	3.3	1664.5	-320.9	-87114.1
	-0.8	-2172.3	2.5	896.1	-245.2	-83310.8
	-0.8	-2165.3	2.3	745.7	-229.7	-82476.0
	-1.0	-2133.3	1.6	-22.7	-154.0	-78672.7
	-0.7	-2422.0	8.5	6897.5	-832.2	-112988.0
	-0.9	-2390.0	7.7	6129.1	-756.5	-109184.7
	-0.9	-2383.0	7.6	5978.7	-741.0	-108349.9
	-1.1	-2351.0	6.8	5210.3	-665.3	-104546.7
	-0.1	-1734.9	-7.9	-9634.6	779.0	-31313.1
	-0.3	-1702.9	-8.7	-10403.0	854.7	-27509.8
	-0.3	-1695.9	-8.9	-10553.4	870.2	-26675.1
	-0.5	-1663.9	-9.6	-11321.8	946.0	-22871.8
	-0.2	-1952.6	-2.7	-4401.7	267.7	-57187.0
	-0.4	-1920.6	-3.5	-5170.0	343.4	-53383.8
	-0.4	-1913.6	-3.7	-5320.4	358.9	-52549.0
	-0.6	-1881.6	-4.4	-6088.8	434.7	-48745.7
Asta	305	nod	137	144		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.1	1467.9	1.8	6083.8	172.6	-64022.3
	-1.0	1500.0	1.4	6418.8	132.6	-67485.0

	-2.0	1507.1	1.3	6480.8	127.4	-68239.3
	-2.0	1539.2	0.9	6815.7	87.3	-71701.9
	-2.0	1248.9	4.6	3798.6	444.3	-40462.7
	-2.0	1281.0	4.2	4133.6	404.2	-43925.3
	-2.9	1288.1	4.2	4195.5	399.0	-44679.7
	-2.9	1320.2	3.7	4530.5	359.0	-48142.3
	0.9	1940.2	-4.3	11025.5	-412.0	-114839.5
	0.9	1972.4	-4.7	11360.5	-452.0	-118302.1
	0.0	1979.4	-4.8	11422.5	-457.2	-119056.4
	0.0	2011.6	-5.2	11757.4	-497.2	-122519.1
	0.0	1721.2	-1.5	8740.3	-140.3	-91279.8
	0.0	1753.4	-1.9	9075.3	-180.4	-94742.5
	-0.9	1760.4	-1.9	9137.2	-185.5	-95496.8
	-0.9	1792.6	-2.4	9472.2	-225.6	-98959.4
108.	-1.1	171.3	1.8	6083.8	-20.9	23517.9
	-1.0	203.5	1.4	6418.8	-15.9	23516.0
	-2.0	210.5	1.3	6480.8	-15.2	23515.3
	-2.0	242.7	0.9	6815.7	-10.2	23513.4
	-2.0	-47.7	4.6	3798.6	-54.5	23531.5
	-2.0	-15.5	4.2	4133.6	-49.5	23529.6
	-2.9	-8.5	4.2	4195.5	-48.8	23528.9
	-2.9	23.7	3.7	4530.5	-43.7	23527.0
	0.9	643.7	-4.3	11025.5	51.1	23487.4
	0.9	675.8	-4.7	11360.5	56.1	23485.5
	0.0	682.9	-4.8	11422.5	56.8	23484.8
	0.0	715.0	-5.2	11757.4	61.8	23482.9
	0.0	424.7	-1.5	8740.3	17.5	23501.0
	0.0	456.8	-1.9	9075.3	22.5	23499.1
	-0.9	463.9	-1.9	9137.2	23.2	23498.4
	-0.9	496.0	-2.4	9472.2	28.3	23496.5
215.	-1.1	-1060.9	1.8	6083.8	-214.5	-24882.8
	-1.0	-1028.7	1.4	6418.8	-164.4	-21424.0
	-2.0	-1021.7	1.3	6480.8	-157.8	-20671.1
	-2.0	-989.5	0.9	6815.7	-107.7	-17212.2
	-2.0	-1279.9	4.6	3798.6	-553.2	-48415.2
	-2.0	-1247.7	4.2	4133.6	-503.2	-44956.4
	-2.9	-1240.7	4.2	4195.5	-496.6	-44203.5
	-2.9	-1208.5	3.7	4530.5	-446.5	-40744.6
	0.9	-588.5	-4.3	11025.5	514.1	25873.5
	0.9	-556.4	-4.7	11360.5	564.2	29332.3
	0.0	-549.3	-4.8	11422.5	570.8	30085.2
	0.0	-517.2	-5.2	11757.4	620.9	33544.1
	0.0	-807.5	-1.5	8740.3	175.4	2341.1
	0.0	-775.4	-1.9	9075.3	225.4	5799.9
	-0.9	-768.3	-1.9	9137.2	232.0	6552.8
	-0.9	-736.2	-2.4	9472.2	282.1	10011.7
Asta	306	nod1	144	140		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.5	42.3	1.7	-4589.8	209.2	8220.0
	0.9	71.5	1.3	-4046.9	158.8	4768.0
	1.4	77.2	1.2	-3929.3	149.6	4090.6
	1.8	106.4	0.8	-3386.4	99.2	638.6
	1.2	-156.4	4.5	-8284.0	546.4	31748.9
	1.6	-127.2	4.1	-7741.1	496.0	28296.9
	2.1	-121.5	4.0	-7623.5	486.8	27619.5
	2.5	-92.3	3.6	-7080.6	436.4	24167.5
	-2.3	471.6	-4.3	3379.2	-515.0	-42615.3
	-1.9	500.8	-4.7	3922.1	-565.4	-46067.3
	-1.4	506.5	-4.8	4039.7	-574.6	-46744.7
	-1.0	535.7	-5.2	4582.6	-625.0	-50196.7
	-1.6	272.9	-1.5	-315.0	-177.8	-19086.4
	-1.2	302.1	-1.9	227.9	-228.2	-22538.4
	-0.7	307.8	-2.0	345.5	-237.4	-23215.8
	-0.3	337.0	-2.4	888.4	-287.8	-26667.8
113.	0.5	-204.9	1.7	-4589.8	14.1	-1180.0
	0.9	-175.7	1.3	-4046.9	10.7	-1339.6
	1.4	-170.0	1.2	-3929.3	10.7	-1369.9
	1.8	-140.8	0.8	-3386.4	7.3	-1529.6
	1.2	-403.6	4.5	-8284.0	36.9	-92.5
	1.6	-374.4	4.1	-7741.1	33.5	-252.1
	2.1	-368.7	4.0	-7623.5	33.5	-282.4
	2.5	-339.5	3.6	-7080.6	30.1	-442.0
	-2.3	224.4	-4.3	3379.2	-34.7	-3529.1
	-1.9	253.6	-4.7	3922.1	-38.1	-3688.7
	-1.4	259.3	-4.8	4039.7	-38.1	-3719.0
	-1.0	288.5	-5.2	4582.6	-41.5	-3878.7
	-1.6	25.7	-1.5	-315.0	-11.8	-2441.5
	-1.2	54.9	-1.9	227.9	-15.3	-2601.2
	-0.7	60.6	-2.0	345.5	-15.2	-2631.5
	-0.3	89.8	-2.4	888.4	-18.7	-2791.1
226.	0.5	-428.4	1.7	-4589.8	-181.1	-37165.3
	0.9	-399.3	1.3	-4046.9	-137.5	-34032.6
	1.4	-393.6	1.2	-3929.3	-128.1	-33415.8
	1.8	-364.4	0.8	-3386.4	-84.5	-30283.1
	1.2	-627.1	4.5	-8284.0	-472.6	-58519.2
	1.6	-598.0	4.1	-7741.1	-429.1	-55386.5
	2.1	-592.3	4.0	-7623.5	-419.7	-54769.6
	2.5	-563.1	3.6	-7080.6	-376.1	-51636.9
	-2.3	0.9	-4.3	3379.2	445.6	8971.8
	-1.9	30.0	-4.7	3922.1	489.1	12104.5

	-1.4	35.7	-4.8	4039.7	498.5	12721.4
	-1.0	64.9	-5.2	4582.6	542.1	15854.1
	-1.6	-197.8	-1.5	-315.0	154.0	-12382.0
	-1.2	-168.7	-1.9	227.9	197.5	-9249.3
	-0.7	-163.0	-2.0	345.5	206.9	-8632.4
	-0.3	-133.8	-2.4	888.4	250.5	-5499.7
Asta	307	nod	140	127		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4.2	1980.1	4.5	-35650.7	492.5	-296766.7
	-4.8	2094.4	3.5	-34782.3	377.9	-311738.5
	-2.9	2119.2	3.2	-34629.1	356.2	-315008.4
	-3.5	2233.6	2.2	-33760.8	241.6	-329980.3
	-4.3	1202.3	11.7	-41593.0	1279.1	-194939.4
	-4.9	1316.6	10.7	-40724.6	1164.5	-209911.2
	-3.0	1341.4	10.5	-40571.5	1142.7	-213181.1
	-3.6	1455.8	9.4	-39703.1	1028.2	-228153.0
	0.0	3657.5	-11.1	-22766.6	-1203.9	-516336.6
	-0.6	3771.8	-12.1	-21898.2	-1318.4	-531308.4
	1.3	3796.6	-12.3	-21745.1	-1340.2	-534578.3
	0.7	3910.9	-13.4	-20876.7	-1454.7	-549550.2
	-0.1	2879.7	-3.8	-28708.9	-417.3	-414509.2
	-0.7	2994.0	-4.9	-27840.6	-531.8	-429481.1
	1.2	3018.8	-5.1	-27687.4	-553.6	-432751.0
	0.6	3133.1	-6.2	-26819.0	-668.2	-447722.8
109.	-4.2	420.0	4.5	-35650.7	-1.1	-163228.0
	-4.8	534.3	3.5	-34782.3	-0.4	-165691.5
	-2.9	559.1	3.2	-34629.1	0.8	-166251.6
	-3.5	673.4	2.2	-33760.8	1.5	-168715.1
	-4.3	-357.8	11.7	-41593.0	-4.3	-146483.6
	-4.9	-243.5	10.7	-40724.6	-3.6	-148947.1
	-3.0	-218.7	10.5	-40571.5	-2.4	-149507.1
	-3.6	-104.4	9.4	-39703.1	-1.7	-151970.7
	0.0	2097.3	-11.1	-22766.6	6.6	-199310.5
	-0.6	2211.7	-12.1	-21898.2	7.4	-201774.1
	1.3	2236.5	-12.3	-21745.1	8.5	-202334.1
	0.7	2350.8	-13.4	-20876.7	9.3	-204797.7
	-0.1	1319.6	-3.8	-28708.9	3.4	-182566.1
	-0.7	1433.9	-4.9	-27840.6	4.2	-185029.6
	1.2	1458.7	-5.1	-27687.4	5.3	-185589.7
219.	0.6	1573.0	-6.2	-26819.0	6.1	-188053.2
	-4.2	-1388.9	4.5	-35650.7	-494.4	-213957.2
	-4.8	-1274.6	3.5	-34782.3	-378.4	-203912.4
	-2.9	-1249.8	3.2	-34629.1	-354.7	-201762.4
	-3.5	-1135.5	2.2	-33760.8	-238.7	-191717.7
	-4.3	-2166.7	11.7	-41593.0	-1287.4	-282295.6
	-4.9	-2052.4	10.7	-40724.6	-1171.4	-272250.9
	-3.0	-2027.6	10.5	-40571.5	-1147.7	-270100.9
	-3.6	-1913.3	9.4	-39703.1	-1031.6	-260056.1
	0.0	288.4	-11.1	-22766.6	1217.2	-66552.3
	-0.6	402.8	-12.1	-21898.2	1333.3	-56507.5
	1.3	427.6	-12.3	-21745.1	1356.9	-54357.6
	0.7	541.9	-13.4	-20876.7	1473.0	-44312.8
	-0.1	-489.3	-3.8	-28708.9	424.2	-134890.8
	-0.7	-375.0	-4.9	-27840.6	540.3	-124846.0
	1.2	-350.2	-5.1	-27687.4	564.0	-122696.1
	0.6	-235.9	-6.2	-26819.0	680.0	-112651.3
Asta	308	nod	127	125		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-7.5	2233.6	1.1	37426.1	246.0	22279.6
	-8.1	2294.1	0.8	37142.0	188.7	12495.2
	-6.4	2307.3	0.8	37093.2	176.4	10343.1
	-7.0	2367.8	0.5	36809.1	119.1	558.6
	-8.7	1821.6	2.8	39361.5	630.2	88801.5
	-9.2	1882.2	2.6	39077.3	573.0	79017.0
	-7.6	1895.3	2.5	39028.6	560.6	76864.9
	-8.1	1955.9	2.2	38744.4	503.3	67080.4
	4.1	3121.9	-2.6	33249.4	-582.0	-121117.5
	3.6	3182.5	-2.9	32965.2	-639.3	-130902.0
	5.2	3195.6	-2.9	32916.5	-651.6	-133054.1
	4.7	3256.2	-3.2	32632.4	-708.9	-142838.6
	3.0	2710.0	-0.9	35184.8	-197.8	-54595.7
	2.4	2770.5	-1.1	34900.6	-255.0	-64380.1
	4.1	2783.7	-1.2	34851.9	-267.4	-66532.3
	3.5	2844.2	-1.5	34567.7	-324.7	-76316.7
205.	-7.5	-662.5	1.1	37426.1	19.8	190207.9
	-8.1	-602.0	0.8	37142.0	15.5	192819.5
	-6.4	-588.8	0.8	37093.2	15.0	193353.3
	-7.0	-528.3	0.5	36809.1	10.6	195964.9
	-8.7	-1074.5	2.8	39361.5	53.0	172417.2
	-9.2	-1013.9	2.6	39077.3	48.6	175028.7
	-7.6	-1000.8	2.5	39028.6	48.1	175562.6
	-8.1	-940.2	2.2	38744.4	43.8	178174.1
	4.1	225.8	-2.6	33249.4	-50.2	228630.5
	3.6	286.4	-2.9	32965.2	-54.6	231242.0
	5.2	299.5	-2.9	32916.5	-55.0	231775.9
	4.7	360.1	-3.2	32632.4	-59.4	234387.5
	3.0	-186.1	-0.9	35184.8	-17.0	210839.7
	2.4	-125.6	-1.1	34900.6	-21.4	213451.3
	4.1	-112.4	-1.2	34851.9	-21.9	213985.2

409.	3.5	-51.9	-1.5	34567.7	-26.2	216596.7
	-7.5	-3978.2	1.1	37426.1	-206.5	-277550.2
	-8.1	-3917.6	0.8	37142.0	-157.9	-262542.6
	-6.4	-3904.5	0.8	37093.2	-146.4	-259323.0
	-7.0	-3843.9	0.5	36809.1	-97.9	-244315.4
	-8.7	-4390.1	2.8	39361.5	-524.4	-379653.5
	-9.2	-4329.6	2.6	39077.3	-475.8	-364645.9
	-7.6	-4316.4	2.5	39028.6	-464.3	-361426.3
	-8.1	-4255.9	2.2	38744.4	-415.7	-346418.7
	4.1	-3089.8	-2.6	33249.4	481.6	-57308.0
	3.6	-3029.3	-2.9	32965.2	530.2	-42300.5
	5.2	-3016.2	-2.9	32916.5	541.7	-39080.9
	4.7	-2955.6	-3.2	32632.4	590.2	-24073.3
	3.0	-3501.8	-0.9	35184.8	163.7	-159411.4
	2.4	-3441.2	-1.1	34900.6	212.3	-144403.8
	4.1	-3428.1	-1.2	34851.9	223.8	-141184.2
	3.5	-3367.5	-1.5	34567.7	272.4	-126176.6
Asta PROGR. 0.	309	nodj	125	123		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-5.0	1313.8	4.2	17273.0	405.5	-129298.4
	-4.7	1395.1	3.2	18187.7	311.6	-132550.1
	-4.8	1412.8	3.1	18422.2	298.6	-133342.3
	-4.5	1494.0	2.1	19336.9	204.7	-136594.1
	-8.0	761.4	11.1	11086.6	1062.8	-107282.9
	-7.6	842.7	10.2	12001.4	968.9	-110534.7
	-7.7	860.4	10.0	12235.8	955.9	-111326.9
	-7.4	941.6	9.1	13150.5	862.0	-114578.7
	2.9	2504.9	-10.4	30548.2	-994.1	-176573.3
	3.2	2586.2	-11.4	31463.0	-1088.0	-179825.1
	3.2	2603.8	-11.5	31697.4	-1101.1	-180617.3
	3.5	2685.1	-12.5	32612.2	-1195.0	-183869.1
	0.0	1952.5	-3.5	24361.9	-336.8	-154557.9
	0.3	2033.8	-4.4	25276.6	-430.7	-157809.7
	0.3	2051.5	-4.6	25511.0	-443.8	-158601.9
	0.6	2132.7	-5.5	26425.8	-537.7	-161853.6
	-5.0	-183.1	4.2	17273.0	-54.5	-67164.3
108.	-4.7	-101.8	3.2	18187.7	-41.4	-61607.9
	-4.8	-84.1	3.1	18422.2	-41.5	-60481.2
	-4.5	-2.9	2.1	19336.9	-28.4	-54924.9
	-8.0	-735.4	11.1	11086.6	-146.0	-105047.4
	-7.6	-654.2	10.2	12001.4	-132.9	-99491.0
	-7.7	-636.5	10.0	12235.8	-133.0	-98364.4
	-7.4	-555.3	9.1	13150.5	-119.9	-92808.0
	2.9	1008.0	-10.4	30548.2	130.2	14718.4
	3.2	1089.3	-11.4	31463.0	143.3	20274.7
	3.2	1107.0	-11.5	31697.4	143.2	21401.4
	3.5	1188.2	-12.5	32612.2	156.3	26957.8
	0.0	455.6	-3.5	24361.9	38.7	-23164.8
	0.3	536.9	-4.4	25276.6	51.8	-17608.4
	0.3	554.6	-4.6	25511.0	51.7	-16481.7
	0.6	635.8	-5.5	26425.8	64.8	-10925.4
217.	-5.0	-1771.5	4.2	17273.0	-513.2	-172306.5
	-4.7	-1690.3	3.2	18187.7	-393.1	-157942.0
	-4.8	-1672.6	3.1	18422.2	-380.7	-154897.6
	-4.5	-1591.3	2.1	19336.9	-260.6	-140533.1
	-8.0	-2323.9	11.1	11086.6	-1353.5	-270088.2
	-7.6	-2242.6	10.2	12001.4	-1233.5	-255723.7
	-7.7	-2225.0	10.0	12235.8	-1221.0	-252679.3
	-7.4	-2143.7	9.1	13150.5	-1100.9	-238314.8
	2.9	-580.4	-10.4	30548.2	1253.7	38731.8
	3.2	-499.2	-11.4	31463.0	1373.7	53096.3
	3.2	-481.5	-11.5	31697.4	1386.2	56140.7
	3.5	-400.2	-12.5	32612.2	1506.2	70505.2
	0.0	-1132.8	-3.5	24361.9	413.3	-59049.9
	0.3	-1051.5	-4.4	25276.6	533.4	-44685.4
	0.3	-1033.9	-4.6	25511.0	545.9	-41641.0
	0.6	-952.6	-5.5	26425.8	665.9	-27276.5
Asta PROGR. 0.	311	nodj	122	183		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	0.7	1059.8	1.7	-22543.7	276.8	-57312.8
	0.8	1081.9	1.4	-17813.7	213.2	-53128.7
	0.8	1086.5	1.4	-16755.1	208.2	-52210.1
	0.8	1108.5	1.0	-12025.2	144.7	-48026.0
	1.1	909.8	5.0	-54686.4	741.4	-85756.4
	1.2	931.9	4.7	-49956.4	677.9	-81572.3
	1.2	936.5	4.7	-48897.8	672.9	-80653.8
	1.2	958.5	4.3	-44167.8	609.3	-76469.7
	-1.2	1383.6	-4.7	46715.6	-705.5	4005.8
	-1.1	1405.6	-5.1	51445.5	-769.0	8189.9
	-1.1	1410.2	-5.0	52504.1	-774.0	9108.4
	-1.1	1432.2	-5.4	57234.1	-837.5	13292.5
	-0.8	1233.6	-1.4	14572.9	-240.9	-24437.9
	-0.7	1255.6	-1.8	19302.9	-304.4	-20253.8
	-0.7	1260.2	-1.8	20361.5	-309.4	-19335.2
	-0.7	1282.2	-2.1	25091.4	-372.9	-15151.1
55.	0.7	338.7	1.7	-22543.7	191.1	-18892.9
	0.8	360.7	1.4	-17813.7	148.5	-13498.7
	0.8	365.4	1.4	-16755.1	134.9	-12326.6
	0.8	387.4	1.0	-12025.2	92.3	-6932.4

	1.1	188.7	5.0	-54686.4	474.9	-55577.9
	1.2	210.7	4.7	-49956.4	432.3	-50183.7
	1.2	215.4	4.7	-48897.8	418.7	-49011.7
	1.2	237.4	4.3	-44167.8	376.1	-43617.5
	-1.2	662.4	-4.7	46715.6	-450.7	60211.8
	-1.1	684.5	-5.1	51445.5	-493.3	65606.0
	-1.1	689.1	-5.0	52504.1	-506.9	66778.1
	-1.1	711.1	-5.4	57234.1	-549.6	72172.3
	-0.8	512.4	-1.4	14572.9	-166.9	23526.8
	-0.7	534.5	-1.8	19302.9	-209.5	28921.0
	-0.7	539.1	-1.8	20361.5	-223.1	30093.0
	-0.7	561.1	-2.1	25091.4	-265.7	35487.2
110.	0.7	-382.4	1.7	-22543.7	122.1	-20092.7
	0.8	-360.4	1.4	-17813.7	100.4	-13488.4
	0.8	-355.8	1.4	-16755.1	73.2	-12062.8
	0.8	-333.7	1.0	-12025.2	51.4	-5458.5
	1.1	-532.4	5.0	-54686.4	225.1	-65019.2
	1.2	-510.4	4.7	-49956.4	203.4	-58414.9
	1.2	-505.8	4.7	-48897.8	176.2	-56989.3
	1.2	-483.7	4.3	-44167.8	154.4	-50385.0
	-1.2	-58.7	-4.7	46715.6	-207.5	76798.2
	-1.1	-36.6	-5.1	51445.5	-229.3	83402.5
	-1.1	-32.0	-5.0	52504.1	-256.5	84828.0
	-1.1	-10.0	-5.4	57234.1	-278.2	91432.4
	-0.8	-208.7	-1.4	14572.9	-104.5	31871.7
	-0.7	-186.6	-1.8	19302.9	-126.3	38476.0
	-0.7	-182.0	-1.8	20361.5	-153.5	39901.6
	-0.7	-160.0	-2.1	25091.4	-175.2	46505.9
Asta	312	nod1	129	140		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.2	1288.1	1.7	2443.3	290.5	-103393.3
	0.3	1278.0	1.3	1597.0	222.4	-101576.0
	0.3	1276.3	1.2	1416.5	208.0	-101259.6
	0.4	1266.1	0.8	570.2	139.9	-99442.3
	0.5	1357.4	4.4	8199.9	754.2	-115808.3
	0.7	1347.3	4.0	7353.5	686.1	-113991.1
	0.6	1345.5	3.9	7173.1	671.6	-113674.6
	0.8	1335.4	3.5	6326.7	603.6	-111857.4
	-1.3	1138.1	-4.1	-9970.2	-708.6	-76517.2
	-1.1	1128.0	-4.5	-10816.5	-776.7	-74700.0
	-1.1	1126.3	-4.6	-10997.0	-791.1	-74383.5
	-1.0	1116.1	-5.0	-11843.3	-859.2	-72566.3
	-0.9	1207.4	-1.4	-4213.6	-244.9	-88932.3
	-0.8	1197.2	-1.8	-5060.0	-313.0	-87115.0
	-0.8	1195.5	-1.9	-5240.4	-327.5	-86798.6
	-0.6	1185.4	-2.3	-6086.8	-395.5	-84981.3
147.	0.2	361.6	1.7	2443.3	42.2	12545.0
	0.3	351.4	1.3	1597.0	32.2	12875.0
	0.3	349.7	1.2	1416.5	30.1	12940.0
	0.4	339.6	0.8	570.2	20.2	13270.0
	0.5	430.8	4.4	8199.9	109.5	10296.0
	0.7	420.7	4.0	7353.5	99.6	10626.0
	0.6	419.0	3.9	7173.1	97.5	10691.1
	0.8	408.9	3.5	6326.7	87.5	11021.1
	-1.3	211.6	-4.1	-9970.2	-103.1	17402.8
	-1.1	201.4	-4.5	-10816.5	-113.0	17732.8
	-1.1	199.7	-4.6	-10997.0	-115.1	17797.9
	-1.0	189.6	-5.0	-11843.3	-125.1	18127.9
	-0.9	280.8	-1.4	-4213.6	-35.7	15153.9
	-0.8	270.7	-1.8	-5060.0	-45.7	15483.9
	-0.8	269.0	-1.9	-5240.4	-47.8	15548.9
	-0.6	258.8	-2.3	-6086.8	-57.7	15878.9
294.	0.2	-145.6	1.7	2443.3	-206.1	23263.9
	0.3	-155.8	1.3	1597.0	-157.9	22106.7
	0.3	-157.5	1.2	1416.5	-147.7	21920.1
	0.4	-167.6	0.8	570.2	-99.5	20762.9
	0.5	-76.4	4.4	8199.9	-535.1	31181.1
	0.7	-86.5	4.0	7353.5	-487.0	30023.9
	0.6	-88.2	3.9	7173.1	-476.7	29837.3
	0.8	-98.3	3.5	6326.7	-428.6	28680.1
	-1.3	-295.6	-4.1	-9970.2	502.5	6103.4
	-1.1	-305.8	-4.5	-10816.5	550.6	4946.2
	-1.1	-307.5	-4.6	-10997.0	560.9	4759.7
	-1.0	-317.6	-5.0	-11843.3	609.1	3602.4
	-0.9	-226.4	-1.4	-4213.6	173.5	14020.6
	-0.8	-236.5	-1.8	-5060.0	221.6	12863.4
	-0.8	-238.2	-1.9	-5240.4	231.9	12676.9
	-0.6	-248.3	-2.3	-6086.8	280.0	11519.6
Asta	313	nod1	175	174		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.5	-149.8	2.1	-295.0	94.7	-5977.7
	0.7	-149.8	1.6	-295.0	69.1	-5977.7
	4.1	-149.8	1.4	-295.0	60.8	-5977.7
	4.3	-149.8	0.9	-295.0	35.2	-5977.7
	1.3	-149.8	5.4	-295.0	244.0	-5977.7
	1.5	-149.8	4.9	-295.0	218.4	-5977.7
	4.9	-149.8	4.7	-295.0	210.1	-5977.7
	5.1	-149.8	4.2	-295.0	184.5	-5977.7
	-3.2	-149.8	-5.0	-295.0	-215.6	-5977.7

	-3.0	-149.8	-5.5	-295.0	-241.2	-5977.7
	0.4	-149.8	-5.6	-295.0	-249.5	-5977.7
	0.6	-149.8	-6.1	-295.0	-275.1	-5977.7
	-2.4	-149.8	-1.7	-295.0	-66.3	-5977.7
	-2.2	-149.8	-2.2	-295.0	-91.9	-5977.7
	1.2	-149.8	-2.3	-295.0	-100.2	-5977.7
	1.4	-149.8	-2.8	-295.0	-125.8	-5977.7
93.	0.5	-350.5	2.1	-295.0	-98.7	-29318.1
	0.7	-350.5	1.6	-295.0	-76.8	-29318.1
	4.1	-350.5	1.4	-295.0	-74.3	-29318.1
	4.3	-350.5	0.9	-295.0	-52.4	-29318.1
	1.3	-350.5	5.4	-295.0	-257.7	-29318.1
	1.5	-350.5	4.9	-295.0	-235.9	-29318.1
	4.9	-350.5	4.7	-295.0	-233.4	-29318.1
	5.1	-350.5	4.2	-295.0	-211.5	-29318.1
	-3.2	-350.5	-5.0	-295.0	248.7	-29318.1
	-3.0	-350.5	-5.5	-295.0	270.6	-29318.1
	0.4	-350.5	-5.6	-295.0	273.1	-29318.1
	0.6	-350.5	-6.1	-295.0	294.9	-29318.1
	-2.4	-350.5	-1.7	-295.0	89.6	-29318.1
	-2.2	-350.5	-2.2	-295.0	111.5	-29318.1
	1.2	-350.5	-2.3	-295.0	114.0	-29318.1
187.	1.4	-350.5	-2.8	-295.0	135.9	-29318.1
	0.5	-551.6	2.1	-295.0	-291.3	-71406.0
	0.7	-551.6	1.6	-295.0	-222.0	-71406.0
	4.1	-551.6	1.4	-295.0	-209.0	-71406.0
	4.3	-551.6	0.9	-295.0	-139.7	-71406.0
	1.3	-551.6	5.4	-295.0	-758.7	-71406.0
	1.5	-551.6	4.9	-295.0	-689.4	-71406.0
	4.9	-551.6	4.7	-295.0	-676.4	-71406.0
	5.1	-551.6	4.2	-295.0	-607.1	-71406.0
	-3.2	-551.6	-5.0	-295.0	712.6	-71406.0
	-3.0	-551.6	-5.5	-295.0	781.9	-71406.0
	0.4	-551.6	-5.6	-295.0	794.9	-71406.0
	0.6	-551.6	-6.1	-295.0	864.2	-71406.0
	-2.4	-551.6	-1.7	-295.0	245.2	-71406.0
	-2.2	-551.6	-2.2	-295.0	314.5	-71406.0
	1.2	-551.6	-2.3	-295.0	327.5	-71406.0
	1.4	-551.6	-2.8	-295.0	396.8	-71406.0
Asta	317	nod1	65	177		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-13984.0	1738.0	-140.4	-1087.1	-29749.2	-206178.9
	-13978.9	1715.7	-141.9	-832.3	-29983.8	-202299.5
	-13977.8	1711.1	-143.2	-779.8	-30226.6	-201493.7
	-13972.8	1688.8	-144.8	-525.0	-30461.2	-197614.2
	-14018.3	1890.0	-129.9	-2817.6	-28186.9	-232665.7
	-14013.3	1867.8	-131.5	-2562.9	-28421.5	-228786.2
	-14012.2	1863.1	-132.7	-2510.3	-28664.3	-227980.4
	-14007.1	1840.9	-134.3	-2255.6	-28898.9	-224101.0
	-13909.6	1408.7	-162.4	2641.5	-33000.4	-148809.7
	-13904.6	1386.4	-164.0	2896.3	-33235.1	-144930.2
	-13903.4	1381.8	-165.2	2948.8	-33477.8	-144124.4
	-13898.4	1359.5	-166.8	3203.6	-33712.4	-140244.9
	-13944.0	1560.7	-151.9	911.0	-31438.1	-175296.4
	-13938.9	1538.4	-153.5	1165.8	-31672.8	-171417.0
	-13937.8	1533.8	-154.7	1218.3	-31915.5	-170611.1
	-13932.7	1511.6	-156.3	1473.0	-32150.1	-166731.7
165.	-13489.0	1738.0	-140.4	-1087.1	-6581.3	80588.7
	-13483.9	1715.7	-141.9	-832.3	-6557.1	80793.8
	-13482.8	1711.1	-143.2	-779.8	-6606.9	80837.7
	-13477.8	1688.8	-144.8	-525.0	-6582.7	81042.8
	-13523.3	1890.0	-129.9	-2817.6	-6749.8	79188.6
	-13518.3	1867.8	-131.5	-2562.9	-6725.7	79393.7
	-13517.2	1863.1	-132.7	-2510.3	-6775.5	79437.6
	-13512.1	1840.9	-134.3	-2255.6	-6751.3	79642.7
	-13414.6	1408.7	-162.4	2641.5	-6196.9	83620.5
	-13409.6	1386.4	-164.0	2896.3	-6172.7	83825.6
	-13408.4	1381.8	-165.2	2948.8	-6222.6	83869.5
	-13403.4	1359.5	-166.8	3203.6	-6198.4	84074.6
	-13449.0	1560.7	-151.9	911.0	-6365.5	82220.4
	-13443.9	1538.4	-153.5	1165.8	-6341.3	82425.5
	-13442.8	1533.8	-154.7	1218.3	-6391.1	82469.4
	-13437.7	1511.6	-156.3	1473.0	-6367.0	82674.5
330.	-12994.0	1738.0	-140.4	-1087.1	16572.5	367356.3
	-12988.9	1715.7	-141.9	-832.3	16855.5	363887.0
	-12987.8	1711.1	-143.2	-779.8	17033.3	363169.1
	-12982.8	1688.8	-144.8	-525.0	17316.4	359699.8
	-13028.3	1890.0	-129.9	-2817.6	14673.0	391042.9
	-13023.3	1867.8	-131.5	-2562.9	14956.1	387573.6
	-13022.2	1863.1	-132.7	-2510.3	15133.9	386855.7
	-13017.1	1840.9	-134.3	-2255.6	15416.9	383386.4
	-12919.6	1408.7	-162.4	2641.5	20586.0	316050.7
	-12914.6	1386.4	-164.0	2896.3	20869.0	312581.4
	-12913.4	1381.8	-165.2	2948.8	21046.8	311863.5
	-12908.4	1359.5	-166.8	3203.6	21329.9	308394.1
	-12954.0	1560.7	-151.9	911.0	18686.5	339737.2
	-12948.9	1538.4	-153.5	1165.8	18969.5	336267.9
	-12947.8	1533.8	-154.7	1218.3	19147.4	335550.0
	-12942.7	1511.6	-156.3	1473.0	19430.4	332080.7

Asta	319	nod1	183	154		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.9	-539.6	14.0	-8812.8	68.9	12243.7
	1.1	-470.0	10.7	-7641.8	53.9	12228.3
	3.7	-454.1	10.2	-7397.1	55.2	12229.2
	3.9	-384.4	6.9	-6226.1	40.3	12213.7
	5.6	-1012.1	36.4	-16789.4	187.3	12355.4
	5.8	-942.5	33.1	-15618.4	172.3	12340.0
	8.4	-926.6	32.5	-15373.7	173.7	12340.8
	8.6	-857.0	29.3	-14202.8	158.7	12325.4
	-9.4	477.1	-33.9	8412.7	-167.5	11984.8
	-9.1	546.7	-37.2	9583.7	-182.5	11969.4
	-6.5	562.7	-37.7	9828.4	-181.1	11970.2
	-6.3	632.3	-41.0	10999.4	-196.1	11954.8
	-4.6	4.6	-11.5	436.1	-49.1	12096.5
	-4.4	74.2	-14.8	1607.0	-64.0	12081.1
	-1.8	90.1	-15.4	1851.7	-62.7	12081.9
	-1.6	159.8	-18.6	3022.7	-77.7	12066.5
28.	0.9	-592.6	14.0	-8812.8	-330.3	-3752.9
	1.1	-523.0	10.7	-7641.8	-253.2	-1801.3
	3.7	-507.0	10.2	-7397.1	-233.2	-1349.4
	3.9	-437.4	6.9	-6226.1	-156.1	602.2
	5.6	-1065.1	36.4	-16789.4	-843.9	-16992.1
	5.8	-995.5	33.1	-15618.4	-766.8	-15040.5
	8.4	-979.5	32.5	-15373.7	-746.8	-14588.6
	8.6	-909.9	29.3	-14202.8	-669.7	-12636.9
	-9.4	424.1	-33.9	8412.7	791.4	24717.2
	-9.1	493.7	-37.2	9583.7	868.5	26668.8
	-6.5	509.7	-37.7	9828.4	888.5	27120.7
	-6.3	579.3	-41.0	10999.4	965.6	29072.4
	-4.6	-48.4	-11.5	436.1	277.8	11478.0
	-4.4	21.2	-14.8	1607.0	354.9	13429.6
	-1.8	37.2	-15.4	1851.7	374.9	13881.5
	-1.6	106.8	-18.6	3022.7	452.0	15833.2
57.	0.9	-645.6	14.0	-8812.8	-725.7	-21245.5
	1.1	-576.0	10.7	-7641.8	-556.6	-17326.8
	3.7	-560.0	10.2	-7397.1	-520.7	-16424.4
	3.9	-490.4	6.9	-6226.1	-351.5	-12505.7
	5.6	-1118.1	36.4	-16789.4	-1871.4	-47835.5
	5.8	-1048.5	33.1	-15618.4	-1702.2	-43916.9
	8.4	-1032.5	32.5	-15373.7	-1666.4	-43014.5
	8.6	-962.9	29.3	-14202.8	-1497.2	-39095.8
	-9.4	371.1	-33.9	8412.7	1749.4	35952.2
	-9.1	440.8	-37.2	9583.7	1918.6	39870.9
	-6.5	456.7	-37.7	9828.4	1954.4	40773.3
	-6.3	526.3	-41.0	10999.4	2123.6	44691.9
	-4.6	-101.4	-11.5	436.1	603.8	9362.1
	-4.4	-31.8	-14.8	1607.0	773.0	13280.8
	-1.8	-15.8	-15.4	1851.7	808.8	14183.2
	-1.6	53.8	-18.6	3022.7	978.0	18101.9
Asta	320	nod1	28	10		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	5000.3	2.4	-10295.3	558.9	-209549.4
	0.0	4944.3	1.8	-10270.6	427.8	-203993.8
	0.0	4932.5	1.7	-10236.3	401.2	-202663.5
	0.0	4876.5	1.2	-10211.6	270.1	-197107.9
	0.0	5381.2	6.2	-10451.8	1449.3	-247193.1
	0.0	5325.2	5.7	-10427.1	1318.2	-241637.6
	0.0	5313.4	5.6	-10392.8	1291.6	-240307.3
	0.0	5257.4	5.0	-10368.1	1160.5	-234751.7
	0.0	4178.7	-5.9	-9973.6	-1358.1	-128648.2
	0.0	4122.7	-6.4	-9948.9	-1489.2	-123092.6
	0.0	4110.9	-6.5	-9914.6	-1515.8	-121762.3
	0.0	4054.9	-7.1	-9889.9	-1647.0	-116206.7
	0.0	4559.6	-2.0	-10130.1	-467.7	-166292.0
	0.0	4503.6	-2.6	-10105.4	-598.8	-160736.4
	0.0	4491.8	-2.7	-10071.1	-625.4	-159406.1
	0.0	4435.8	-3.3	-10046.4	-756.6	-153850.5
203.	0.0	421.6	2.4	-2216.0	72.7	335095.3
	0.0	395.1	1.8	-1856.5	55.7	332364.8
	0.0	388.8	1.7	-1760.2	52.2	331864.3
	0.0	362.3	1.2	-1400.6	35.2	329133.9
	0.0	601.3	6.2	-4656.1	188.6	353747.1
	0.0	574.8	5.6	-4296.5	171.6	351016.6
	0.0	568.5	5.5	-4200.3	168.1	350516.1
	0.0	542.0	5.0	-3840.7	151.1	347785.6
	0.0	35.4	-5.8	3040.1	-176.8	294719.1
	0.0	8.9	-6.4	3399.6	-193.8	291988.6
	0.0	2.6	-6.5	3495.9	-197.3	291488.1
	0.0	-24.0	-7.0	3855.4	-214.3	288757.6
	0.0	215.1	-2.0	600.0	-60.9	313370.8
	0.0	188.6	-2.6	959.6	-77.9	310640.4
	0.0	182.3	-2.7	1055.8	-81.4	310139.9
	0.0	155.7	-3.2	1415.4	-98.4	307409.4
405.	0.0	-4079.1	2.4	5738.5	-410.7	-32727.6
	0.0	-4079.5	1.8	6452.8	-314.4	-38178.3
	0.0	-4081.2	1.7	6619.6	-294.8	-39461.7
	0.0	-4081.5	1.2	7333.9	-198.4	-44912.4
	0.0	-4078.1	6.2	879.8	-1065.0	4222.0
	0.0	-4078.4	5.6	1594.2	-968.7	-1228.7

	0.0	-4080.1	5.5	1761.0	-949.1	-2512.1
	0.0	-4080.4	5.0	2475.3	-852.7	-7962.9
	0.0	-4075.1	-5.8	16220.9	998.0	-112166.6
	0.0	-4075.4	-6.4	16935.2	1094.4	-117617.3
	0.0	-4077.1	-6.5	17102.0	1114.0	-118900.8
	0.0	-4077.4	-7.0	17816.3	1210.3	-124351.5
	0.0	-4074.0	-2.0	11362.2	343.7	-75217.0
	0.0	-4074.4	-2.6	12076.5	440.1	-80667.8
	0.0	-4076.0	-2.7	12243.3	459.7	-81951.2
	0.0	-4076.4	-3.2	12957.7	556.0	-87401.9
Asta	321	nod1	15	35		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2682.1	4.2	-48504.6	385.6	-141356.6
	0.0	2626.7	3.2	-45519.3	295.2	-140056.8
	0.0	2614.8	3.0	-44874.2	276.9	-139754.0
	0.0	2559.4	2.0	-41888.9	186.5	-138454.2
	0.0	3058.6	11.0	-68820.3	1000.1	-150167.0
	0.0	3003.3	10.0	-65835.0	909.7	-148867.2
	0.0	2991.4	9.8	-65189.9	891.4	-148564.4
	0.0	2936.0	8.8	-62204.6	801.0	-147264.6
	0.0	1870.3	-10.3	-4665.0	-937.5	-122422.5
	0.0	1814.9	-11.3	-1679.7	-1027.9	-121122.7
	0.0	1803.0	-11.5	-1034.6	-1046.2	-120819.9
	0.0	1747.6	-12.5	1950.8	-1136.6	-119520.2
	0.0	2246.8	-3.6	-24980.7	-323.0	-131232.9
	0.0	2191.5	-4.5	-21995.4	-413.4	-129933.1
	0.0	2179.6	-4.7	-21350.3	-431.7	-129630.3
	0.0	2124.2	-5.7	-18365.0	-522.1	-128330.6
85.	0.0	545.2	4.2	-45160.8	27.2	-4676.4
	0.0	508.9	3.2	-41881.0	20.8	-7285.1
	0.0	501.0	3.0	-41176.1	19.7	-7829.5
	0.0	464.6	2.0	-37896.3	13.3	-10438.2
	0.0	792.0	11.0	-67483.5	71.1	13084.5
	0.0	755.7	10.0	-64203.7	64.7	10475.9
	0.0	747.7	9.8	-63498.8	63.6	9931.4
	0.0	711.4	8.8	-60219.0	57.2	7322.8
	0.0	13.7	-10.3	3015.1	-66.5	-43006.2
	0.0	-22.6	-11.3	6294.9	-72.9	-45614.9
	0.0	-30.6	-11.5	6999.8	-74.1	-46159.3
	0.0	-66.9	-12.5	10279.6	-80.5	-48768.0
	0.0	260.5	-3.5	-19307.6	-22.6	-25245.3
	0.0	224.2	-4.5	-16027.8	-29.0	-27854.0
	0.0	216.2	-4.7	-15322.9	-30.1	-28398.4
	0.0	179.9	-5.7	-12043.1	-36.5	-31007.1
169.	0.0	-1604.9	4.2	-42262.8	-331.1	-49433.1
	0.0	-1618.0	3.2	-38656.2	-253.6	-54162.2
	0.0	-1621.0	3.0	-37884.5	-237.5	-55180.6
	0.0	-1634.1	2.0	-34277.8	-159.9	-59909.8
	0.0	-1516.6	11.0	-66812.9	-857.7	-17278.1
	0.0	-1529.6	10.0	-63206.3	-780.2	-22007.2
	0.0	-1532.7	9.8	-62434.6	-764.1	-23025.7
	0.0	-1545.8	8.8	-58827.9	-686.5	-27754.8
	0.0	-1794.3	-10.3	10725.0	804.4	-118732.5
	0.0	-1807.4	-11.3	14331.6	881.9	-123461.6
	0.0	-1810.5	-11.5	15103.3	898.0	-124480.0
	0.0	-1823.5	-12.5	18710.0	975.5	-129209.2
	0.0	-1706.0	-3.5	-13825.1	277.8	-86577.5
	0.0	-1719.1	-4.5	-10218.5	355.3	-91306.6
	0.0	-1722.1	-4.7	-9446.8	371.4	-92325.1
	0.0	-1735.2	-5.7	-5840.1	448.9	-97054.2
Asta	322	nod1	35	19		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3010.3	5.2	-96431.4	441.4	376.5
	0.0	2937.6	4.0	-93660.0	338.0	-896.6
	0.0	2921.3	3.7	-92999.7	316.8	-1060.7
	0.0	2848.7	2.5	-90228.3	213.4	-2333.7
	0.0	3503.7	13.5	-115237.7	1145.0	9171.9
	0.0	3431.1	12.3	-112466.4	1041.6	7898.8
	0.0	3414.8	12.1	-111806.0	1020.4	7734.7
	0.0	3342.1	10.9	-109034.7	917.0	6461.6
	0.0	1947.6	-12.7	-55955.1	-1074.2	-18858.2
	0.0	1874.9	-13.9	-53183.7	-1177.7	-20131.3
	0.0	1858.6	-14.2	-52523.3	-1198.8	-20295.4
	0.0	1786.0	-15.4	-49752.0	-1302.2	-21568.5
	0.0	2441.0	-4.4	-74761.4	-370.6	-10062.9
	0.0	2368.4	-5.6	-71990.1	-474.1	-11335.9
	0.0	2352.1	-5.8	-71329.7	-495.2	-11500.0
	0.0	2279.4	-7.1	-68558.4	-598.6	-12773.1
118.	0.0	-48.6	5.2	-93685.6	-176.1	176699.0
	0.0	-82.4	4.0	-90385.2	-134.8	169060.4
	0.0	-90.4	3.7	-89615.3	-126.8	167441.0
	0.0	-124.2	2.5	-86314.8	-85.4	159802.4
	0.0	180.0	13.5	-116096.5	-459.1	228692.5
	0.0	146.3	12.3	-112796.0	-417.8	221053.9
	0.0	138.2	12.1	-112026.1	-409.8	219434.4
	0.0	104.4	10.9	-108725.7	-368.4	211795.8
	0.0	-539.7	-12.7	-45425.0	431.2	64511.9
	0.0	-573.5	-13.9	-42124.5	472.6	56873.3
	0.0	-581.6	-14.2	-41354.7	480.6	55253.9

	0.0	-615.3	-15.4	-38054.2	522.0	47615.3
	0.0	-311.1	-4.4	-67835.8	148.2	116505.4
	0.0	-344.9	-5.6	-64535.4	189.6	108866.8
	0.0	-352.9	-5.8	-63765.5	197.6	107247.3
	0.0	-386.7	-7.1	-60465.0	239.0	99608.7
237.	0.0	-3224.8	5.2	-92744.3	-794.5	-15785.2
	0.0	-3211.9	4.0	-88851.1	-608.1	-24754.5
	0.0	-3210.0	3.8	-87956.8	-570.9	-26761.0
	0.0	-3197.2	2.5	-84063.7	-384.5	-35730.4
	0.0	-3313.5	13.6	-119191.2	-2065.3	45137.9
	0.0	-3300.6	12.3	-115298.0	-1878.9	36168.6
	0.0	-3298.7	12.1	-114403.8	-1841.8	34162.0
	0.0	-3285.8	10.9	-110510.6	-1655.3	25192.7
	0.0	-3031.2	-12.7	-35769.8	1938.5	-146977.1
	0.0	-3018.4	-14.0	-31876.7	2124.9	-155946.4
	0.0	-3016.5	-14.2	-30982.4	2162.1	-157953.0
	0.0	-3003.6	-15.4	-27089.2	2348.5	-166922.3
	0.0	-3119.9	-4.4	-62216.8	667.7	-86054.0
	0.0	-3107.0	-5.6	-58323.6	854.1	-95023.3
	0.0	-3105.1	-5.9	-57429.4	891.3	-97029.9
	0.0	-3092.3	-7.1	-53536.2	1077.7	-105999.2

SOLLECITAZIONI ASTE

CASO DI CARICO : 5 SLU con SISMAV PRINC COMBINAZIONE

N. 3 CONDIZIONI ANALISI STATICA

1	Peso proprio	+	1.00
2	Permanente	+	1.00
3	A:Var	+	0.60

N. 2 CASI DI CARICO

3	SISMAV SLU	1.00
2	SISMAX SLU	0.30

1)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.001	+0.30*c002.001
2)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.001	+0.30*c002.002
3)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.001	+0.30*c002.003
4)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.001	+0.30*c002.004
5)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.002	+0.30*c002.001
6)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.002	+0.30*c002.002
7)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.002	+0.30*c002.003
8)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.002	+0.30*c002.004
9)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.003	+0.30*c002.001
10)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.003	+0.30*c002.002
11)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.003	+0.30*c002.003
12)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.003	+0.30*c002.004
13)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.004	+0.30*c002.001
14)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.004	+0.30*c002.002
15)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.004	+0.30*c002.003
16)	+1.00*c001	+1.00*c002	+0.60*c003	+1.00*c003.004	+0.30*c002.004

Unità di misura: Prog e frecce [cm];NORM,TYY,TZZ [daN]

MZZ,MYT,TORS [daNcm]

Asta	1	nod	1	2		
PROGR.	NORM	TYY	TZZ	TORS	MYT	MZZ
0.	0.0	3345.6	0.5	5145.2	270.5	-304364.1
	0.0	3411.0	0.8	2617.6	405.1	-328251.7
	0.0	3204.6	0.0	10616.5	-19.3	-252828.4
	0.0	3270.0	0.2	8088.8	115.3	-276716.0
	0.0	3238.9	0.1	9258.1	50.4	-265364.7
	0.0	3304.2	0.4	6730.5	184.9	-289252.3
	0.0	3097.9	-0.5	14729.3	-239.4	-213829.0
	0.0	3163.3	-0.2	12201.7	-104.8	-237716.6
	0.0	3215.4	0.0	10022.7	4.7	-256802.1
	0.0	3280.8	0.3	7495.0	139.2	-280689.7
	0.0	3074.4	-0.5	15493.9	-285.1	-205266.5
	0.0	3139.8	-0.3	12966.3	-150.5	-229154.1
	0.0	3108.7	-0.4	14135.5	-215.5	-217802.7
	0.0	3174.0	-0.2	11607.9	-80.9	-241690.3
	0.0	2967.7	-1.0	19606.8	-505.3	-166267.1
	0.0	3033.1	-0.7	17079.2	-370.7	-190154.7
312.	0.0	-20.6	0.4	4166.5	118.8	198620.9
	0.0	28.0	0.7	1393.8	177.9	193257.8
	0.0	-125.5	0.0	10168.2	-8.4	210193.9
	0.0	-76.9	0.2	7395.5	50.7	204830.8
	0.0	-100.0	0.1	8678.2	22.2	207373.0
	0.0	-51.4	0.3	5905.5	81.2	202009.9
	0.0	-205.0	-0.4	14679.9	-105.1	218946.0
	0.0	-156.3	-0.2	11907.2	-46.0	213582.9
	0.0	-117.5	0.0	9515.5	2.0	209282.5
	0.0	-68.9	0.2	6742.7	61.1	203919.4
	0.0	-222.4	-0.5	15517.2	-125.2	220855.5
	0.0	-173.8	-0.2	12744.5	-66.1	215492.4
	0.0	-196.9	-0.3	14027.2	-94.6	218034.7
	0.0	-148.3	-0.1	11254.4	-35.6	212671.6

	0.0	-301.9	-0.8	20028.9	-221.9	229607.7
	0.0	-253.2	-0.6	17256.2	-162.8	224244.6
625.	0.0	-2910.1	0.4	3715.6	-7.0	-267309.6
	0.0	-2868.6	0.6	346.5	-10.5	-259277.5
	0.0	-2999.9	0.0	11008.4	0.6	-284632.1
	0.0	-2958.3	0.2	7639.2	-3.0	-276600.0
	0.0	-2978.1	0.1	9197.9	-1.2	-280430.9
	0.0	-2936.5	0.3	5828.7	-4.8	-272398.8
	0.0	-3067.8	-0.3	16490.6	6.3	-297753.5
	0.0	-3026.2	-0.1	13121.4	2.8	-289721.4
	0.0	-2993.0	0.0	10213.9	-0.1	-283330.6
	0.0	-2951.4	0.2	6844.8	-3.7	-275298.4
	0.0	-3082.7	-0.4	17506.6	7.4	-300653.1
	0.0	-3041.1	-0.2	14137.5	3.9	-292621.0
	0.0	-3060.9	-0.3	15696.1	5.6	-296451.9
	0.0	-3019.3	-0.1	12327.0	2.1	-288419.8
	0.0	-3150.6	-0.7	22988.9	13.1	-313774.4
	0.0	-3109.0	-0.5	19619.7	9.6	-305742.3
Asta	2	nod1	2	3		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3126.6	0.3	17687.3	-7.0	-297197.8
	0.0	3168.2	0.5	20065.3	-10.5	-303320.4
	0.0	3036.9	0.0	12531.5	0.6	-283982.2
	0.0	3078.5	0.1	14909.5	-3.0	-290104.8
	0.0	3058.7	0.1	13824.6	-1.2	-287207.1
	0.0	3100.3	0.2	16202.6	-4.8	-293329.6
	0.0	2969.0	-0.3	8668.8	6.3	-273991.5
	0.0	3010.5	-0.1	11046.7	2.8	-280114.0
	0.0	3043.8	0.0	13165.8	-0.1	-285043.5
	0.0	3085.4	0.2	15543.8	-3.7	-291166.0
	0.0	2954.1	-0.3	8010.0	7.4	-271827.8
	0.0	2995.6	-0.2	10388.0	3.9	-277950.4
	0.0	2975.9	-0.2	9303.1	5.6	-275052.7
	0.0	3017.4	-0.1	11681.1	2.1	-281175.2
	0.0	2886.1	-0.6	4147.3	13.1	-261837.1
	0.0	2927.7	-0.4	6525.3	9.6	-267959.6
312.	0.0	401.8	0.4	18684.3	-110.4	253083.1
	0.0	454.6	0.5	20398.8	-165.2	261240.2
	0.0	287.9	0.0	14963.9	7.7	235491.7
	0.0	340.7	0.2	16678.4	-47.1	243648.8
	0.0	315.6	0.1	15901.6	-20.6	239756.9
	0.0	368.4	0.2	17616.1	-75.4	247914.0
	0.0	201.7	-0.3	12181.3	97.5	222165.6
	0.0	254.5	-0.1	13895.7	42.7	230322.6
	0.0	297.0	0.0	15445.6	-1.9	236836.5
	0.0	349.8	0.2	17160.1	-56.7	244993.6
	0.0	183.1	-0.4	11725.3	116.3	219245.2
	0.0	235.9	-0.2	13439.8	61.4	227402.3
	0.0	210.8	-0.3	12663.0	87.9	223510.4
	0.0	263.6	-0.1	14377.5	33.1	231667.4
	0.0	96.9	-0.7	8942.6	206.0	205919.0
	0.0	149.7	-0.5	10657.1	151.2	214076.1
625.	0.0	-2675.9	0.4	22048.7	-237.8	-79049.1
	0.0	-2622.2	0.7	23317.0	-355.9	-52715.1
	0.0	-2791.9	0.0	19292.5	16.6	-135881.8
	0.0	-2738.2	0.2	20560.7	-101.4	-109547.8
	0.0	-2763.4	0.1	19993.5	-44.5	-122035.1
	0.0	-2709.7	0.3	21261.8	-162.6	-95701.0
	0.0	-2879.4	-0.4	17237.2	209.9	-178867.8
	0.0	-2825.7	-0.2	18505.5	91.9	-152533.7
	0.0	-2781.8	0.0	19682.5	-4.0	-131292.3
	0.0	-2728.1	0.2	20950.7	-122.0	-104958.2
	0.0	-2897.8	-0.5	16926.2	250.5	-188125.0
	0.0	-2844.1	-0.2	18194.5	132.4	-161790.9
	0.0	-2869.3	-0.3	17627.2	189.3	-174278.2
	0.0	-2815.6	-0.1	18895.5	71.3	-147944.2
	0.0	-2985.4	-0.8	14871.0	443.8	-231110.9
	0.0	-2931.7	-0.6	16139.3	325.7	-204776.9
Asta	3	nod1	1	4		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	1259.4	2.4	-119775.5	533.7	218223.5
	0.0	1160.9	3.6	-122335.6	799.1	230030.4
	0.0	1472.4	-0.2	-114244.5	-38.0	192702.9
	0.0	1373.9	1.0	-116804.6	227.5	204509.8
	0.0	1420.0	0.4	-115602.4	99.4	198984.3
	0.0	1321.5	1.6	-118162.5	364.9	210791.2
	0.0	1633.0	-2.1	-110071.4	-472.2	173463.8
	0.0	1534.5	-0.9	-112631.5	-206.8	185270.7
	0.0	1450.8	0.0	-114652.7	9.3	195362.2
	0.0	1352.2	1.2	-117212.7	274.7	207169.1
	0.0	1663.7	-2.5	-109121.7	-562.4	169841.7
	0.0	1565.2	-1.3	-111681.7	-297.0	181648.6
	0.0	1611.4	-1.9	-110479.5	-425.0	176123.1
	0.0	1512.8	-0.7	-113039.6	-159.6	187930.0
	0.0	1824.4	-4.5	-104948.5	-996.6	150602.6
	0.0	1725.8	-3.3	-107508.6	-731.2	162409.5
180.	0.0	-933.7	2.4	-119799.7	103.7	250535.0
	0.0	-1029.2	3.6	-122795.7	155.2	244942.5
	0.0	-727.3	-0.2	-113327.9	-7.4	262618.1

	0.0	-822.8	1.0	-116323.9	44.2	257025.6
	0.0	-778.0	0.4	-114915.1	19.3	259656.1
	0.0	-873.5	1.6	-117911.1	70.9	254063.6
	0.0	-571.6	-2.1	-108443.3	-91.7	271739.2
	0.0	-667.1	-0.9	-111439.3	-40.2	266146.7
	0.0	-748.4	0.0	-113808.6	1.7	261440.2
	0.0	-843.9	1.2	-116804.7	53.3	255847.6
	0.0	-542.0	-2.5	-107336.8	-109.3	273523.3
	0.0	-637.5	-1.3	-110332.9	-57.7	267930.8
	0.0	-592.7	-1.9	-108924.0	-82.6	270561.2
	0.0	-688.2	-0.7	-111920.1	-31.1	264968.7
	0.0	-386.3	-4.4	-102452.3	-193.7	282644.4
	0.0	-481.8	-3.3	-105448.3	-142.1	277051.8
361.	0.0	-3496.5	2.4	-125101.1	-323.9	-141430.9
	0.0	-3593.1	3.6	-128665.1	-485.0	-164385.6
	0.0	-3287.7	-0.2	-117403.4	23.1	-91824.5
	0.0	-3384.3	1.0	-120967.4	-138.0	-114779.2
	0.0	-3339.0	0.4	-119289.9	-60.3	-104008.0
	0.0	-3435.6	1.6	-122853.9	-221.4	-126962.7
	0.0	-3130.3	-2.1	-111592.2	286.6	-54401.6
	0.0	-3226.8	-0.9	-115156.2	125.5	-77356.3
	0.0	-3309.1	0.0	-117978.0	-5.7	-96844.8
	0.0	-3405.7	1.2	-121541.9	-166.8	-119799.5
	0.0	-3100.3	-2.5	-110280.3	341.2	-47238.4
	0.0	-3196.9	-1.3	-113844.3	180.1	-70193.1
	0.0	-3151.6	-1.9	-112166.8	257.8	-59422.0
	0.0	-3248.2	-0.7	-115730.7	96.7	-82376.7
	0.0	-2942.9	-4.4	-104469.1	604.8	-9815.6
	0.0	-3039.5	-3.2	-108033.0	443.7	-32770.3
Asta	4	nod1	1	5		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	772.7	2.4	118754.7	533.5	177211.1
	0.0	837.8	3.6	124192.3	798.9	163848.9
	0.0	631.8	-0.2	107032.2	-37.9	206088.0
	0.0	696.9	1.0	112469.8	227.4	192725.9
	0.0	666.6	0.4	109868.5	99.4	198994.5
	0.0	731.8	1.6	115306.1	364.7	185632.4
	0.0	525.7	-2.1	98145.9	-472.1	227871.5
	0.0	590.9	-0.9	103583.5	-206.8	214509.4
	0.0	648.0	0.0	107945.5	9.3	203118.1
	0.0	713.1	1.2	113383.1	274.6	189756.0
	0.0	507.1	-2.5	96222.9	-562.2	231995.1
	0.0	572.2	-1.3	101660.5	-296.9	218633.0
	0.0	541.9	-1.9	99059.2	-424.9	224901.6
	0.0	607.1	-0.7	104496.9	-159.6	211539.4
	0.0	401.1	-4.5	87336.7	-996.4	253778.5
	0.0	466.2	-3.3	92774.3	-731.0	240416.4
180.	0.0	-1478.1	2.4	118674.8	103.8	118045.2
	0.0	-1407.0	3.6	124608.7	155.4	116890.2
	0.0	-1631.7	-0.2	105881.8	-7.4	120515.8
	0.0	-1560.7	1.0	111815.7	44.2	119360.8
	0.0	-1593.7	0.4	108978.3	19.4	119950.4
	0.0	-1522.7	1.6	114912.2	71.0	118795.4
	0.0	-1747.4	-2.1	96185.3	-91.8	122421.0
	0.0	-1676.3	-0.9	102119.2	-40.2	121266.0
	0.0	-1614.4	0.0	106878.0	1.7	120556.3
	0.0	-1543.4	1.2	112811.8	53.4	119401.3
	0.0	-1768.1	-2.5	94085.0	-109.5	123026.9
	0.0	-1697.1	-1.3	100018.8	-57.8	121871.9
	0.0	-1730.1	-1.9	97181.5	-82.7	122461.4
	0.0	-1659.1	-0.7	103115.3	-31.1	121306.5
	0.0	-1883.8	-4.4	84388.5	-193.9	124932.0
	0.0	-1812.7	-3.3	90322.3	-142.3	123777.0
361.	0.0	-4099.5	2.4	123822.6	-323.5	-379232.8
	0.0	-4015.5	3.5	130514.1	-484.4	-366498.7
	0.0	-4281.2	-0.2	109395.6	23.0	-406799.5
	0.0	-4197.2	1.0	116087.1	-137.9	-394065.4
	0.0	-4236.4	0.4	112888.8	-60.2	-399949.3
	0.0	-4152.4	1.6	119580.2	-221.1	-387215.2
	0.0	-4418.1	-2.1	98461.8	286.3	-427516.0
	0.0	-4334.1	-0.9	105153.3	125.4	-414781.9
	0.0	-4261.6	0.0	110518.5	-5.8	-403456.7
	0.0	-4177.6	1.2	117210.0	-166.7	-390722.5
	0.0	-4443.3	-2.5	96091.5	340.7	-431023.4
	0.0	-4359.2	-1.3	102783.0	179.8	-418289.3
	0.0	-4398.5	-1.9	99584.7	257.6	-424173.2
	0.0	-4314.4	-0.7	106276.1	96.7	-411439.0
	0.0	-4580.1	-4.4	85157.7	604.1	-451739.9
	0.0	-4496.1	-3.2	91849.2	443.2	-439005.7
Asta	5	nod1	5	6		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	1835.7	4.3	-10816.6	294.6	18194.9
	0.0	1875.8	6.4	-19028.7	441.2	23605.3
	0.0	1749.1	-0.3	6931.8	-21.0	6566.5
	0.0	1789.2	1.8	-1280.3	125.6	11976.9
	0.0	1770.4	0.8	2565.8	54.7	9325.5
	0.0	1810.5	2.9	-5646.3	201.3	14735.9
	0.0	1683.8	-3.8	20314.2	-260.8	-2303.0
	0.0	1723.9	-1.7	12102.1	-114.3	3107.4

	0.0	1758.1	0.1	5134.5	5.3	6988.8
	0.0	1798.2	2.2	-3077.6	151.9	12399.2
	0.0	1671.5	-4.5	22882.9	-310.2	-4639.6
	0.0	1711.6	-2.4	14670.8	-163.7	770.8
	0.0	1692.8	-3.4	18517.0	-234.5	-1880.6
	0.0	1732.9	-1.3	10304.9	-88.0	3529.8
	0.0	1606.2	-8.0	36265.4	-550.1	-13509.0
	0.0	1646.3	-5.9	28053.3	-403.5	-8098.6
108.	0.0	36.5	4.3	-11919.9	-168.0	121382.3
	0.0	69.9	6.4	-20186.5	-251.5	131023.1
	0.0	-35.7	-0.3	5947.1	11.9	100608.4
	0.0	-2.4	1.8	-2319.6	-71.6	110249.2
	0.0	-17.9	0.8	1550.9	-31.3	105621.4
	0.0	15.5	2.9	-6715.8	-114.9	115262.1
	0.0	-90.1	-3.8	19417.8	148.6	84847.5
	0.0	-56.7	-1.7	11151.2	65.0	94488.2
	0.0	-27.8	0.1	4130.5	-2.9	101997.5
	0.0	5.6	2.2	-4136.1	-86.4	111638.2
	0.0	-100.0	-4.5	21997.4	177.0	81223.6
	0.0	-66.6	-2.4	13730.8	93.5	90864.3
	0.0	-82.2	-3.4	17601.2	133.8	86236.5
	0.0	-48.8	-1.3	9334.6	50.2	95877.3
	0.0	-154.4	-8.0	35468.2	313.7	65462.6
	0.0	-121.0	-5.9	27201.6	230.1	75103.4
215.	0.0	-2062.0	4.3	-13212.5	-631.1	15312.9
	0.0	-2068.1	6.5	-21665.0	-945.0	26730.6
	0.0	-2049.1	-0.3	5056.9	44.8	-9315.7
	0.0	-2055.2	1.8	-3395.6	-269.1	2102.0
	0.0	-2051.9	0.8	560.6	-117.5	-3331.9
	0.0	-2058.0	2.9	-7892.0	-431.4	8085.8
	0.0	-2039.0	-3.8	18830.0	558.4	-27960.5
	0.0	-2045.0	-1.7	10377.5	244.5	-16542.8
	0.0	-2047.5	0.1	3192.1	-11.1	-7367.8
	0.0	-2053.6	2.2	-5260.4	-325.0	4049.9
	0.0	-2034.6	-4.5	21461.5	664.8	-31996.4
	0.0	-2040.7	-2.4	13009.0	350.9	-20578.7
	0.0	-2037.4	-3.4	16965.2	502.5	-26012.5
	0.0	-2043.5	-1.3	8512.6	188.6	-14594.9
	0.0	-2024.5	-8.0	35234.6	1178.4	-50641.1
	0.0	-2030.5	-5.9	26782.1	864.5	-39223.5
Asta	9	nod1	11	10		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3521.0	1.5	3424.0	321.2	-224956.1
	0.0	3590.7	2.2	7296.2	481.1	-236528.0
	0.0	3370.5	-0.1	-4959.0	-23.0	-199952.1
	0.0	3440.2	0.6	-1086.7	136.9	-211523.9
	0.0	3407.5	0.3	-2874.9	59.6	-206097.1
	0.0	3477.1	1.0	997.4	219.5	-217669.0
	0.0	3257.0	-1.3	-11257.8	-284.6	-181093.1
	0.0	3326.6	-0.6	-7385.6	-124.8	-192664.9
	0.0	3385.0	0.0	-4028.6	6.4	-202441.0
	0.0	3454.6	0.8	-156.3	166.3	-214012.8
	0.0	3234.5	-1.6	-12411.5	-337.8	-177436.9
	0.0	3304.2	-0.8	-8539.3	-177.9	-189008.8
	0.0	3271.5	-1.2	-10327.4	-255.2	-183582.0
	0.0	3341.1	-0.4	-6455.2	-95.3	-195153.8
	0.0	3121.0	-2.8	-18710.4	-599.4	-158577.9
	0.0	3190.6	-2.0	-14838.2	-439.5	-170149.8
212.	0.0	624.1	1.5	7155.2	6.7	186063.5
	0.0	715.6	2.2	10842.9	10.1	192294.6
	0.0	426.3	-0.1	-826.3	-0.5	172608.9
	0.0	517.9	0.6	2861.4	2.9	178840.0
	0.0	474.8	0.3	1154.9	1.2	175898.2
	0.0	566.3	1.0	4842.6	4.6	182129.3
	0.0	277.0	-1.3	-6826.6	-6.0	162443.6
	0.0	368.6	-0.6	-3138.9	-2.6	168674.7
	0.0	444.8	0.0	42.7	0.2	173765.3
	0.0	536.3	0.8	3730.4	3.5	179996.4
	0.0	247.0	-1.6	-7938.8	-7.1	160310.7
	0.0	338.6	-0.8	-4251.1	-3.7	166541.8
	0.0	295.5	-1.2	-5957.6	-5.3	163600.0
	0.0	387.0	-0.4	-2269.9	-2.0	169831.1
	0.0	97.7	-2.8	-13939.1	-12.6	150145.4
	0.0	189.3	-2.0	-10251.4	-9.2	156376.5
423.	0.0	-816.3	1.5	11317.3	-307.5	143256.0
	0.0	-749.3	2.2	15042.5	-460.5	167310.3
	0.0	-961.0	-0.1	3256.5	22.0	91316.5
	0.0	-894.0	0.6	6981.7	-131.0	115370.8
	0.0	-925.8	0.3	5254.3	-57.1	104018.4
	0.0	-858.7	1.0	8979.5	-210.1	128072.8
	0.0	-1070.5	-1.3	-2806.5	272.4	52078.9
	0.0	-1003.4	-0.6	918.7	119.4	76133.2
	0.0	-948.4	0.0	4116.6	-6.1	95982.6
	0.0	-881.3	0.8	7841.8	-159.1	120036.9
	0.0	-1093.1	-1.6	-3944.2	323.4	44043.0
	0.0	-1026.0	-0.8	-219.0	170.4	68097.4
	0.0	-1057.8	-1.2	-1946.4	244.3	56745.0
	0.0	-990.8	-0.4	1778.8	91.3	80799.3
	0.0	-1202.5	-2.8	-10007.2	573.7	4805.5
	0.0	-1135.5	-2.0	-6282.0	420.7	28859.8

Asta	13	nod1	16	15		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	1897.2	5.2	11446.7	358.7	-57721.3
	0.0	1938.4	7.8	18689.5	537.5	-53064.1
	0.0	1807.9	-0.4	-4208.8	-26.2	-67743.5
	0.0	1849.2	2.2	3034.1	152.6	-63086.3
	0.0	1830.0	1.0	-355.7	66.5	-65347.9
	0.0	1871.2	3.5	6887.2	245.3	-60690.7
	0.0	1740.8	-4.6	-16011.1	-318.5	-75370.0
	0.0	1782.0	-2.0	-8768.3	-139.6	-70712.8
	0.0	1816.8	0.1	-2729.4	7.6	-67132.3
	0.0	1858.1	2.7	4513.5	186.4	-62475.1
	0.0	1727.6	-5.4	-18384.8	-377.4	-77154.4
	0.0	1768.9	-2.9	-11142.0	-198.5	-72497.2
	0.0	1749.7	-4.1	-14531.7	-284.7	-74758.8
	0.0	1790.9	-1.5	-7288.8	-105.8	-70101.6
	0.0	1660.4	-9.7	-30187.1	-669.6	-84781.0
67.	0.0	1701.7	-7.1	-22944.3	-490.7	-80123.8
	0.0	1299.9	5.2	11814.5	11.0	49050.7
	0.0	1336.9	7.8	19140.5	16.6	56422.1
	0.0	1219.8	-0.4	-4019.6	-0.8	33157.5
	0.0	1256.8	2.2	3306.4	4.7	40528.9
	0.0	1239.6	1.0	-124.0	2.0	37005.7
	0.0	1276.6	3.5	7201.9	7.6	44377.1
	0.0	1159.6	-4.6	-15958.1	-9.8	21112.5
	0.0	1196.6	-2.0	-8632.2	-4.3	28483.9
	0.0	1228.0	0.1	-2530.3	0.4	34363.3
	0.0	1265.0	2.7	4795.6	5.9	41734.8
	0.0	1148.0	-5.4	-18364.4	-11.4	18470.1
	0.0	1185.0	-2.9	-11038.5	-5.9	25841.6
	0.0	1167.8	-4.1	-14468.8	-8.6	22318.3
	0.0	1204.8	-1.5	-7142.9	-3.1	29689.7
	0.0	1087.8	-9.7	-30303.0	-20.4	6425.1
	0.0	1124.8	-7.1	-22977.0	-14.9	13796.5
134.	0.0	818.7	5.2	12256.1	-336.6	119604.9
	0.0	836.1	7.8	19710.8	-504.4	128891.7
	0.0	781.0	-0.4	-3855.5	24.7	99565.5
	0.0	798.4	2.2	3599.3	-143.1	108852.3
	0.0	790.5	1.0	106.9	-62.4	104444.5
	0.0	807.8	3.5	7561.6	-230.2	113731.3
	0.0	752.8	-4.6	-16004.7	298.9	84405.2
	0.0	770.2	-2.0	-8550.0	131.1	93692.0
	0.0	785.5	0.1	-2347.0	-6.8	101216.8
	0.0	802.9	2.7	5107.7	-174.6	110503.7
	0.0	747.8	-5.4	-18458.6	354.5	81177.5
	0.0	765.2	-2.9	-11003.9	186.7	90464.3
	0.0	757.2	-4.1	-14496.3	267.4	86056.5
	0.0	774.6	-1.5	-7041.5	99.6	95343.3
	0.0	719.6	-9.7	-30607.9	628.7	66017.1
	0.0	737.0	-7.1	-23153.1	460.9	75304.0
Asta	14	nod1	17	3		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3647.6	1.9	52629.4	359.4	-90617.3
	0.0	3702.9	2.9	55476.2	538.0	-96491.6
	0.0	3527.6	-0.1	46489.7	-25.2	-77794.4
	0.0	3582.9	0.8	49336.4	153.4	-83668.7
	0.0	3557.7	0.4	47979.7	67.2	-81126.2
	0.0	3613.0	1.3	50826.4	245.8	-87000.5
	0.0	3437.7	-1.7	41840.0	-317.4	-68303.4
	0.0	3493.0	-0.7	44686.7	-138.8	-74177.7
	0.0	3540.5	0.0	46993.9	6.3	-79594.0
	0.0	3595.8	1.0	49840.6	184.9	-85468.3
	0.0	3420.5	-2.0	40854.2	-378.3	-66771.1
	0.0	3475.8	-1.1	43700.9	-199.7	-72645.4
	0.0	3450.6	-1.5	42344.1	-285.9	-70102.9
	0.0	3505.9	-0.6	45190.9	-107.4	-75977.2
	0.0	3330.6	-3.6	36204.4	-670.5	-57280.0
	0.0	3385.9	-2.6	39051.2	-492.0	-63154.3
214.	0.0	23.7	1.9	54750.8	-53.0	283604.1
	0.0	63.5	2.9	57924.5	-79.3	287967.4
	0.0	-62.9	-0.1	47905.8	3.7	274210.0
	0.0	-23.0	0.8	51079.5	-22.6	278573.4
	0.0	-41.0	0.4	49566.9	-9.9	276467.6
	0.0	-1.1	1.3	52740.6	-36.2	280830.9
	0.0	-127.5	-1.7	42721.9	46.8	267073.5
	0.0	-87.7	-0.7	45895.6	20.5	271436.9
	0.0	-52.7	0.0	48462.1	-0.8	274878.5
	0.0	-12.8	1.0	51635.8	-27.1	279241.8
	0.0	-139.2	-2.0	41617.1	55.9	265484.4
	0.0	-99.3	-1.1	44790.8	29.6	269847.7
	0.0	-117.3	-1.5	43278.2	42.2	267742.0
	0.0	-77.4	-0.6	46452.0	16.0	272105.3
	0.0	-203.8	-3.6	36433.2	99.0	258347.9
	0.0	-164.0	-2.6	39606.9	72.7	262711.2
429.	0.0	-2745.9	1.9	60253.1	-467.9	-19211.5
	0.0	-2726.9	2.9	63949.8	-700.3	-8318.3
	0.0	-2787.6	-0.1	52280.2	32.8	-42825.7
	0.0	-2768.6	0.8	55976.8	-199.6	-31932.5
	0.0	-2776.4	0.4	54215.1	-87.5	-36914.2

	0.0	-2757.4	1.3	57911.7	-319.9	-26021.0
	0.0	-2818.1	-1.7	46242.1	413.2	-60528.4
	0.0	-2799.1	-0.8	49938.8	180.8	-49635.2
	0.0	-2780.3	0.0	52923.0	-8.0	-40253.2
	0.0	-2761.3	1.0	56619.6	-240.3	-29360.0
	0.0	-2822.0	-2.0	44950.0	492.7	-63867.4
	0.0	-2803.0	-1.1	48646.6	260.4	-52974.2
	0.0	-2810.8	-1.5	46884.9	372.4	-57955.9
	0.0	-2791.8	-0.6	50581.6	140.1	-47062.7
	0.0	-2852.5	-3.6	38911.9	873.1	-81570.1
	0.0	-2833.5	-2.7	42608.6	640.8	-70676.9
Asta	15	nod1	18	3		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	1762.3	3.8	-35327.3	677.3	-96176.1
	0.0	1779.9	5.7	-17559.2	1016.0	-77306.0
	0.0	1725.4	-0.3	-73673.9	-51.2	-137093.0
	0.0	1742.9	1.6	-55905.8	287.4	-118223.0
	0.0	1733.0	0.7	-64329.8	124.7	-126829.3
	0.0	1750.5	2.6	-46561.6	463.3	-107959.3
	0.0	1696.0	-3.4	-102676.4	-603.9	-167746.3
	0.0	1713.6	-1.5	-84908.3	-265.2	-148876.3
	0.0	1722.6	0.1	-70479.6	13.5	-132524.1
	0.0	1740.1	2.0	-52711.5	352.2	-113654.1
	0.0	1685.6	-4.0	-108826.3	-715.0	-173441.1
	0.0	1703.1	-2.1	-91058.2	-376.3	-154571.0
	0.0	1693.2	-3.0	-99482.1	-539.1	-163177.4
	0.0	1710.8	-1.1	-81714.0	-200.4	-144307.3
	0.0	1656.2	-7.1	-137828.7	-1267.6	-204094.4
	0.0	1673.8	-5.2	-120060.6	-928.9	-185224.3
173.	0.0	101.5	3.8	-38546.7	26.1	68216.1
	0.0	57.1	5.6	-22284.8	39.8	84165.0
	0.0	198.2	-0.3	-73643.4	-3.0	33746.9
	0.0	153.8	1.6	-57381.4	10.7	49695.8
	0.0	173.5	0.7	-65090.1	4.2	42219.8
	0.0	129.1	2.6	-48828.2	18.0	58168.7
	0.0	270.2	-3.3	-100186.8	-24.9	7750.6
	0.0	225.8	-1.5	-83924.8	-11.1	23699.5
	0.0	185.6	0.1	-70713.8	1.1	36880.5
	0.0	141.1	1.9	-54451.8	14.8	52829.4
	0.0	282.3	-4.0	-105810.4	-28.0	2411.2
	0.0	237.8	-2.1	-89548.5	-14.3	18360.1
	0.0	257.6	-3.0	-97257.2	-20.7	10884.2
	0.0	213.1	-1.1	-80995.2	-7.0	26833.1
	0.0	354.3	-7.0	-132353.8	-49.9	-23585.1
	0.0	309.8	-5.2	-116091.9	-36.1	-7636.2
346.	0.0	-1793.4	3.8	-43331.2	-624.7	-74501.8
	0.0	-1870.3	5.6	-27915.2	-935.6	-69333.0
	0.0	-1626.8	-0.3	-76602.8	45.1	-85591.2
	0.0	-1703.7	1.6	-61186.8	-265.9	-80422.4
	0.0	-1668.3	0.7	-68493.2	-116.2	-82990.0
	0.0	-1745.2	2.6	-53077.2	-427.1	-77821.2
	0.0	-1501.7	-3.3	-101764.8	553.6	-94079.4
	0.0	-1578.6	-1.5	-86348.8	242.6	-88910.6
	0.0	-1644.4	0.1	-73819.0	-11.3	-85127.6
	0.0	-1721.3	2.0	-58403.0	-322.2	-79958.9
	0.0	-1477.8	-4.0	-107090.6	658.4	-96217.0
	0.0	-1554.7	-2.1	-91674.6	347.5	-91048.3
	0.0	-1519.3	-3.0	-98981.0	497.2	-93615.8
	0.0	-1596.2	-1.1	-83565.1	186.3	-88447.0
	0.0	-1352.7	-7.0	-132252.6	1166.9	-104705.2
	0.0	-1429.6	-5.2	-116836.7	856.0	-99536.4
Asta	16	nod1	18	19		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	1538.1	12.6	14248.6	417.3	-145471.6
	0.0	1376.0	19.0	8407.6	626.3	-125855.3
	0.0	1887.1	-1.0	26852.3	-32.0	-187830.2
	0.0	1725.0	5.4	21011.3	177.1	-168213.9
	0.0	1803.2	2.3	23787.3	76.4	-177471.7
	0.0	1641.1	8.6	17946.3	285.4	-157855.4
	0.0	2152.3	-11.3	36391.0	-372.8	-219830.2
	0.0	1990.2	-5.0	30550.0	-163.8	-200214.0
	0.0	1863.2	0.3	25840.1	8.6	-184136.8
	0.0	1701.1	6.6	19999.1	217.7	-164520.5
	0.0	2212.2	-13.3	38443.9	-440.6	-226495.4
	0.0	2050.1	-7.0	32602.8	-231.6	-206879.1
	0.0	2128.3	-10.0	35378.8	-332.2	-216136.8
	0.0	1966.2	-3.7	29537.8	-123.2	-196520.6
	0.0	2477.4	-23.7	47982.6	-781.5	-258495.4
	0.0	2315.3	-17.3	42141.5	-572.4	-238879.2
40.	0.0	1184.5	12.6	15035.0	-84.6	-91393.0
	0.0	999.0	19.0	9460.9	-127.1	-78657.0
	0.0	1584.1	-1.0	27063.2	7.0	-118933.3
	0.0	1398.6	5.3	21489.0	-35.5	-106197.2
	0.0	1487.9	2.3	24137.9	-15.5	-112139.3
	0.0	1302.4	8.6	18563.8	-58.0	-99403.2
	0.0	1887.4	-11.3	36166.1	76.0	-139679.5
	0.0	1702.0	-5.0	30591.9	33.5	-126943.5
	0.0	1556.1	0.3	26096.7	-1.9	-116267.6
	0.0	1370.6	6.6	20522.5	-44.4	-103531.5

	0.0	1955.7	-13.3	38124.8	89.6	-143807.9
	0.0	1770.2	-7.0	32550.6	47.1	-131071.8
	0.0	1859.5	-10.0	35199.6	67.1	-137013.8
	0.0	1674.0	-3.7	29625.4	24.6	-124277.8
	0.0	2259.0	-23.7	47227.7	158.7	-164554.1
	0.0	2073.6	-17.3	41653.5	116.2	-151818.0
79.	0.0	838.1	12.6	15854.4	-586.5	-51226.0
	0.0	621.1	19.0	10534.8	-880.5	-46459.6
	0.0	1305.5	-1.0	27333.3	45.9	-61598.5
	0.0	1088.5	5.4	22013.7	-248.2	-56832.0
	0.0	1192.8	2.3	24541.4	-107.5	-58939.3
	0.0	975.9	8.6	19221.8	-401.5	-54172.8
	0.0	1660.2	-11.3	36020.3	524.9	-69311.8
	0.0	1443.3	-5.0	30700.7	230.8	-64545.3
	0.0	1272.0	0.3	26410.2	-12.5	-60153.1
	0.0	1055.1	6.6	21090.7	-306.5	-55386.7
	0.0	1739.5	-13.3	37889.1	619.9	-70525.6
	0.0	1522.5	-7.0	32569.6	325.9	-65759.2
	0.0	1626.8	-10.1	35097.2	466.5	-67866.4
	0.0	1409.8	-3.7	29777.7	172.5	-63099.9
	0.0	2094.2	-23.7	46576.1	1098.9	-78238.9
	0.0	1877.2	-17.3	41256.6	804.8	-73472.4
Asta	28	nod	128	28		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3993.6	3.0	-181522.3	567.6	-449763.6
	0.0	4120.3	4.5	-178183.6	850.2	-469621.8
	0.0	3720.3	-0.2	-188747.3	-40.7	-406916.9
	0.0	3846.9	1.3	-185408.6	241.8	-426775.1
	0.0	3786.9	0.6	-186955.0	105.2	-417345.0
	0.0	3913.5	2.1	-183616.2	387.8	-437203.2
	0.0	3513.5	-2.7	-194180.0	-503.1	-374498.3
	0.0	3640.2	-1.2	-190841.3	-220.6	-394356.5
	0.0	3744.1	0.1	-187920.1	11.2	-410627.7
	0.0	3870.8	1.6	-184581.4	293.8	-430485.9
	0.0	3470.8	-3.2	-195145.2	-597.1	-367781.0
	0.0	3597.4	-1.7	-191806.5	-314.6	-387639.2
	0.0	3537.4	-2.4	-193352.8	-451.2	-378209.1
	0.0	3664.1	-0.9	-190014.1	-168.6	-398067.3
	0.0	3264.0	-5.7	-200577.9	-1059.5	-335362.4
195.	0.0	3390.7	-4.2	-197239.2	-776.9	-355220.6
	0.0	1489.3	3.0	-172664.5	-21.7	66283.5
	0.0	1611.2	4.5	-169521.8	-32.5	71125.0
	0.0	1226.2	-0.2	-179463.4	1.6	55824.3
	0.0	1348.1	1.3	-176320.7	-9.2	60665.8
	0.0	1290.3	0.6	-177779.9	-4.0	58390.0
	0.0	1412.2	2.1	-174637.2	-14.8	63231.5
	0.0	1027.3	-2.7	-184578.9	19.2	47930.9
	0.0	1149.2	-1.2	-181436.2	8.4	52772.4
	0.0	1249.1	0.1	-178702.8	-0.5	56794.5
	0.0	1371.0	1.6	-175560.1	-11.3	61636.0
	0.0	986.1	-3.2	-185501.7	22.7	46335.4
	0.0	1108.0	-1.7	-182359.0	11.9	51176.9
	0.0	1050.2	-2.4	-183818.2	17.1	48901.1
	0.0	1172.1	-0.9	-180675.5	6.3	53742.6
	0.0	787.1	-5.6	-190617.2	40.3	38441.9
389.	0.0	909.0	-4.1	-187474.5	29.6	43283.4
	0.0	102.7	3.0	-172630.2	-611.6	203943.7
	0.0	187.2	4.6	-169522.9	-916.1	229532.1
	0.0	-79.6	-0.2	-179350.5	44.0	148737.8
	0.0	5.0	1.3	-176243.2	-260.5	174326.2
	0.0	-35.6	0.6	-177689.9	-113.4	162165.0
	0.0	48.9	2.1	-174582.6	-417.9	187753.5
	0.0	-217.9	-2.7	-184410.1	542.2	106959.1
	0.0	-133.3	-1.2	-181302.8	237.7	132547.6
	0.0	-66.0	0.1	-178617.6	-12.3	153416.0
	0.0	18.6	1.6	-175510.3	-316.8	179004.4
	0.0	-248.2	-3.2	-185337.8	643.3	98210.1
	0.0	-163.6	-1.7	-182230.5	338.8	123798.5
	0.0	-204.3	-2.4	-183677.2	485.9	111637.4
	0.0	-119.7	-0.9	-180569.9	181.4	137225.8
	0.0	-386.5	-5.7	-190397.5	1141.5	56431.5
	0.0	-301.9	-4.2	-187290.2	837.0	82019.9
Asta	29	nod	30	128		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2030.0	1.9	129497.2	460.8	-4982.3
	0.0	2121.1	2.8	129044.8	690.1	-37861.8
	0.0	1833.4	-0.1	130492.8	-32.9	65934.1
	0.0	1924.5	0.8	130040.4	196.4	33054.6
	0.0	1881.3	0.3	130219.1	85.5	48716.5
	0.0	1972.4	1.3	129766.7	314.8	15837.0
	0.0	1684.7	-1.7	131214.7	-408.2	119632.9
	0.0	1775.8	-0.7	130762.3	-178.9	86753.4
	0.0	1851.1	0.0	130247.4	8.7	60111.7
	0.0	1942.2	1.0	129794.9	237.9	27232.2
	0.0	1654.5	-2.0	131242.9	-485.0	131028.1
	0.0	1745.6	-1.0	130790.5	-255.7	98148.6
	0.0	1702.4	-1.5	130969.2	-366.7	113810.5
	0.0	1793.5	-0.6	130516.8	-137.4	80931.0
	0.0	1505.8	-3.5	131964.8	-860.3	184726.9

248.	0.0	1596.9	-2.6	131512.4	-631.0	151847.4
	0.0	-572.6	1.9	131988.1	-3.0	188161.4
	0.0	-466.6	2.8	130982.6	-4.5	180192.5
	0.0	-801.1	-0.1	134179.5	0.3	205338.7
	0.0	-695.1	0.8	133174.0	-1.3	197369.9
	0.0	-745.6	0.3	133610.5	-0.5	201184.0
	0.0	-639.7	1.3	132605.0	-2.1	193215.1
	0.0	-974.1	-1.6	135801.8	2.7	218361.4
	0.0	-868.1	-0.7	134796.4	1.2	210392.5
	0.0	-782.4	0.0	133801.9	-0.2	204051.4
	0.0	-676.5	1.0	132796.4	-1.7	196082.5
	0.0	-1010.9	-2.0	135993.2	3.1	221228.8
	0.0	-905.0	-1.0	134987.8	1.6	213259.9
	0.0	-955.5	-1.5	135424.3	2.3	217074.0
	0.0	-849.5	-0.6	134418.8	0.8	209105.1
	0.0	-1184.0	-3.5	137615.6	5.6	234251.4
	0.0	-1078.0	-2.5	136610.2	4.0	226282.5
	0.0	-3970.3	1.9	145266.3	-467.1	-356945.2
	0.0	-3847.8	2.8	143625.6	-699.5	-336772.0
	0.0	-4234.6	-0.1	148832.8	33.4	-400466.3
	0.0	-4112.1	0.8	147192.1	-199.0	-380293.1
	0.0	-4170.4	0.3	147921.8	-86.6	-389884.3
	0.0	-4047.8	1.3	146281.2	-319.1	-369711.1
	0.0	-4434.7	-1.7	151488.3	413.8	-433405.4
	0.0	-4312.1	-0.7	149847.6	181.4	-413232.2
	0.0	-4212.6	0.0	148294.7	-9.0	-396791.1
	0.0	-4090.1	1.0	146654.0	-241.4	-376617.9
	0.0	-4476.9	-2.0	151861.2	491.5	-440312.2
	0.0	-4354.4	-1.0	150220.5	259.0	-420139.0
	0.0	-4412.7	-1.5	150950.3	371.5	-429730.2
	0.0	-4290.1	-0.6	149309.6	139.0	-409557.0
	0.0	-4677.0	-3.5	154516.7	871.9	-473251.3
	0.0	-4554.4	-2.6	152876.0	639.5	-453078.1
Asta PROGR. 0.	30	norm	31	30	MYT	MZZ
	0.0	2226.0	1.8	-49680.5	452.2	-80428.3
	0.0	2118.5	2.7	-55715.3	677.1	-82260.4
	0.0	2457.6	-0.1	-36650.5	-32.0	-76438.0
	0.0	2350.1	0.8	-42685.3	192.9	-78270.1
	0.0	2401.7	0.3	-39836.2	83.9	-77465.0
	0.0	2294.2	1.2	-45871.1	308.9	-79297.1
	0.0	2633.2	-1.6	-26806.3	-400.3	-73474.8
	0.0	2525.8	-0.7	-32841.1	-175.4	-75306.8
	0.0	2442.2	0.0	-37812.6	8.3	-77294.0
	0.0	2334.7	0.9	-43847.4	233.2	-79126.0
	0.0	2673.7	-1.9	-24782.6	-475.9	-73303.7
	0.0	2566.3	-1.0	-30817.4	-251.0	-75135.8
	0.0	2617.8	-1.4	-27968.4	-360.0	-74330.7
	0.0	2510.4	-0.5	-34003.2	-135.1	-76162.8
	0.0	2849.4	-3.4	-14938.4	-844.2	-70340.4
	0.0	2741.9	-2.5	-20973.2	-619.3	-72172.5
	0.0	-36.3	1.8	-43071.6	-0.5	188573.5
	0.0	1.5	2.7	-47880.0	-0.8	179848.3
	0.0	-118.1	-0.1	-32686.7	0.1	207375.2
	0.0	-80.3	0.8	-37495.1	-0.2	198650.0
	0.0	-97.9	0.3	-35230.4	-0.1	202837.8
	0.0	-60.1	1.2	-40038.8	-0.4	194112.6
	0.0	-179.6	-1.6	-24845.5	0.5	221639.5
	0.0	-141.8	-0.7	-29653.9	0.2	212914.3
	0.0	-108.8	0.0	-33639.2	0.0	206058.0
	0.0	-71.0	0.9	-38447.7	-0.3	197332.8
	0.0	-190.6	-1.9	-23254.3	0.6	224859.7
	0.0	-152.8	-1.0	-28062.8	0.3	216134.5
	0.0	-170.4	-1.4	-25798.0	0.4	220322.3
	0.0	-132.6	-0.5	-30606.5	0.1	211597.1
	0.0	-252.1	-3.4	-15413.1	1.0	239124.0
	0.0	-214.3	-2.5	-20221.6	0.7	230398.8
	0.0	-2288.3	1.8	-40037.6	-453.3	-97836.8
	0.0	-2180.2	2.7	-44018.7	-678.7	-86915.4
	0.0	-2521.3	-0.1	-31435.8	32.2	-121445.7
	0.0	-2413.3	0.8	-35417.0	-193.3	-110524.3
	0.0	-2464.7	0.3	-33548.6	-84.1	-115630.6
	0.0	-2356.6	1.2	-37529.7	-309.6	-104709.2
	0.0	-2697.7	-1.6	-24946.9	401.3	-139239.5
	0.0	-2589.7	-0.7	-28928.0	175.9	-128318.1
	0.0	-2501.6	0.0	-32257.9	-8.3	-118871.4
	0.0	-2393.6	0.9	-36239.0	-233.8	-107950.0
	0.0	-2734.7	-1.9	-23656.1	477.1	-142480.3
	0.0	-2626.7	-1.0	-27637.2	251.7	-131558.9
	0.0	-2678.0	-1.4	-25768.9	360.8	-136665.2
	0.0	-2570.0	-0.5	-29750.0	135.3	-125743.8
	0.0	-2911.1	-3.4	-17167.2	846.3	-160274.1
	0.0	-2803.1	-2.5	-21148.3	620.8	-149352.7
Asta PROGR. 0.	31	norm	31	5	MYT	MZZ
	0.0	996.7	3.1	-64500.3	513.2	68055.8
	0.0	1019.3	4.6	-54772.7	768.5	52666.7
	0.0	948.1	-0.2	-85479.9	-36.3	101232.6
	0.0	970.8	1.3	-75752.3	218.9	85843.5

	0.0	959.5	0.6	-80389.3	95.3	93199.6
	0.0	982.2	2.1	-70661.7	350.5	77810.5
	0.0	911.0	-2.7	-101368.9	-454.3	126376.4
	0.0	933.6	-1.2	-91641.3	-199.0	110987.3
	0.0	948.3	0.1	-83808.5	9.4	98813.5
	0.0	971.0	1.6	-74080.9	264.6	83424.4
	0.0	899.8	-3.2	-104788.1	-540.1	131990.2
	0.0	922.4	-1.7	-95060.5	-284.9	116601.1
	0.0	911.1	-2.4	-99697.5	-408.5	123957.3
	0.0	933.8	-0.9	-89969.9	-153.3	108568.2
	0.0	862.6	-5.7	-120677.1	-958.1	157134.0
	0.0	885.2	-4.2	-110949.5	-702.8	141744.9
132.	0.0	-455.3	3.1	-63453.0	106.0	107894.7
	0.0	-355.3	4.6	-54050.1	158.7	101153.4
	0.0	-670.9	-0.2	-83731.5	-7.5	122454.6
	0.0	-570.8	1.3	-74328.6	45.2	115713.4
	0.0	-618.9	0.6	-78812.2	19.7	118887.9
	0.0	-518.9	2.1	-69409.3	72.4	112146.7
	0.0	-834.5	-2.7	-99090.7	-93.8	133447.9
	0.0	-734.4	-1.2	-89687.8	-41.1	126706.6
	0.0	-657.2	0.1	-82124.0	1.9	121051.2
	0.0	-557.2	1.6	-72721.2	54.6	114309.9
	0.0	-872.8	-3.2	-102402.5	-111.5	135611.1
	0.0	-772.7	-1.7	-92999.7	-58.8	128869.9
	0.0	-820.8	-2.4	-97483.3	-84.4	132044.4
	0.0	-720.8	-0.9	-88080.4	-31.7	125303.2
	0.0	-1036.4	-5.7	-117761.8	-197.8	146604.4
	0.0	-936.3	-4.2	-108358.9	-145.1	139863.1
265.	0.0	-2295.9	3.1	-63930.0	-300.5	-69838.1
	0.0	-2162.9	4.6	-54626.0	-450.0	-60664.1
	0.0	-2582.4	-0.2	-83994.5	21.3	-89570.2
	0.0	-2449.5	1.3	-74690.5	-128.1	-80396.2
	0.0	-2513.3	0.6	-79128.4	-55.8	-84863.7
	0.0	-2380.3	2.1	-69824.4	-205.3	-75689.7
	0.0	-2799.8	-2.7	-99193.0	266.1	-104595.8
	0.0	-2666.8	-1.2	-89889.0	116.6	-95421.8
	0.0	-2563.2	0.1	-82412.5	-5.5	-88717.0
	0.0	-2430.2	1.6	-73108.5	-155.0	-79543.0
	0.0	-2849.7	-3.2	-102477.1	316.3	-108449.1
	0.0	-2716.7	-1.7	-93173.1	166.9	-99275.1
	0.0	-2780.5	-2.4	-97610.9	239.2	-103742.6
	0.0	-2647.6	-0.9	-88306.9	89.7	-94568.6
	0.0	-3067.1	-5.7	-117675.5	561.1	-123474.7
	0.0	-2934.1	-4.2	-108371.5	411.6	-114300.7
Asta	32	nod1	5	32		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2951.8	0.6	-18847.7	177.1	-336308.1
	0.0	3087.3	1.0	-34894.4	265.2	-359085.9
	0.0	2659.2	0.0	15778.3	-12.6	-287184.5
	0.0	2794.8	0.3	-268.4	75.5	-309962.3
	0.0	2730.6	0.1	7346.1	32.9	-299102.6
	0.0	2866.1	0.4	-8700.6	121.0	-321880.5
	0.0	2438.0	-0.6	41972.1	-156.8	-249979.0
	0.0	2573.5	-0.2	25925.4	-68.7	-272756.9
	0.0	2684.6	0.0	12898.4	3.3	-291091.2
	0.0	2820.2	0.3	-3148.2	91.4	-313869.0
	0.0	2392.0	-0.7	47524.5	-186.5	-241967.6
	0.0	2527.6	-0.4	31477.8	-98.4	-264745.4
	0.0	2463.4	-0.5	39092.2	-141.0	-253885.7
	0.0	2599.0	-0.2	23045.5	-52.9	-276663.5
	0.0	2170.8	-1.2	73718.2	-330.7	-204762.1
	0.0	2306.4	-0.9	57671.5	-242.6	-227539.9
112.	0.0	1201.0	0.6	-14086.5	105.4	-102634.4
	0.0	1347.6	1.0	-29714.5	157.9	-109591.2
	0.0	884.6	0.0	19636.6	-7.5	-87655.9
	0.0	1031.3	0.3	4008.6	44.9	-94612.7
	0.0	961.7	0.1	11423.1	19.6	-91250.1
	0.0	1108.3	0.4	-4204.8	72.0	-98206.9
	0.0	645.4	-0.6	45146.3	-93.4	-76271.6
	0.0	792.0	-0.2	29518.3	-40.9	-83228.4
	0.0	911.7	0.0	16825.3	2.0	-88613.6
	0.0	1058.3	0.3	1197.4	54.4	-95570.5
	0.0	595.3	-0.7	50548.5	-111.0	-73635.1
	0.0	741.9	-0.4	34920.5	-58.5	-80592.0
	0.0	672.4	-0.5	42335.0	-83.9	-77229.3
	0.0	819.0	-0.2	26707.1	-31.5	-84186.2
	0.0	356.0	-1.2	76058.2	-196.9	-62250.8
	0.0	502.6	-0.9	60430.2	-144.4	-69207.7
225.	0.0	-526.1	0.6	-9570.2	34.2	-65090.1
	0.0	-361.1	0.9	-25051.1	51.2	-54590.9
	0.0	-882.3	0.0	23836.2	-2.5	-87778.2
	0.0	-717.2	0.3	8355.3	14.5	-77279.0
	0.0	-795.7	0.1	15698.8	6.3	-82201.8
	0.0	-630.6	0.4	217.9	23.3	-71702.6
	0.0	-1151.8	-0.6	49105.2	-30.3	-104889.9
	0.0	-986.7	-0.2	33624.3	-13.3	-94390.7
	0.0	-852.8	0.0	21044.7	0.7	-85565.5
	0.0	-687.7	0.3	5563.8	17.7	-75066.3
	0.0	-1208.9	-0.7	54451.0	-36.0	-108253.6
	0.0	-1043.9	-0.4	38970.2	-19.0	-97754.4

	0.0	-1122.3	-0.5	46313.7	-27.2	-102677.2
	0.0	-957.2	-0.2	30832.8	-10.2	-92178.0
	0.0	-1478.5	-1.2	79720.1	-63.8	-125365.3
	0.0	-1313.4	-0.9	64239.2	-46.8	-114866.1
Asta	33	nod1	32	33		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-526.1	2.3	64860.4	34.2	-11020.3
	0.0	-361.1	3.5	54018.3	51.2	-26263.0
	0.0	-882.3	-0.2	88288.3	-2.5	21871.5
	0.0	-717.2	1.0	77446.2	14.5	6628.8
	0.0	-795.7	0.4	82531.7	6.3	13860.6
	0.0	-630.6	1.6	71689.6	23.3	-1382.1
	0.0	-1151.8	-2.1	105959.6	-30.3	46752.4
	0.0	-986.7	-0.9	95117.5	-13.3	31509.7
	0.0	-852.8	0.0	86013.8	0.7	19130.1
	0.0	-687.7	1.2	75171.8	17.7	3887.4
	0.0	-1208.9	-2.5	109441.7	-36.0	52021.9
	0.0	-1043.9	-1.3	98599.7	-19.0	36779.2
	0.0	-1122.3	-1.9	103685.1	-27.2	44011.0
	0.0	-957.2	-0.7	92843.0	-10.2	28768.2
	0.0	-1478.5	-4.3	127113.0	-63.8	76902.8
	0.0	-1313.4	-3.2	116270.9	-46.8	61660.0
115.	0.0	-2416.0	2.3	66226.1	-233.8	-177288.4
	0.0	-2227.0	3.5	55376.8	-350.2	-172213.7
	0.0	-2823.6	-0.2	89671.0	16.8	-188225.6
	0.0	-2634.6	1.0	78821.8	-99.6	-183150.9
	0.0	-2724.6	0.4	83908.0	-43.3	-185584.4
	0.0	-2535.6	1.6	73058.7	-159.7	-180509.7
	0.0	-3132.2	-2.1	107352.9	207.2	-196521.6
	0.0	-2943.2	-0.9	96503.6	90.9	-191446.9
	0.0	-2790.8	0.0	87380.9	-4.4	-187397.8
	0.0	-2601.8	1.2	76531.7	-120.8	-182323.1
	0.0	-3198.4	-2.5	110825.9	246.1	-198335.0
	0.0	-3009.4	-1.3	99976.6	129.8	-193260.3
	0.0	-3099.4	-1.9	105062.8	186.0	-195693.8
	0.0	-2910.4	-0.7	94213.6	69.7	-190619.1
	0.0	-3507.0	-4.4	128507.8	436.6	-206631.0
	0.0	-3318.0	-3.2	117658.5	320.2	-201556.3
230.	0.0	-4572.1	2.3	68793.7	-502.6	-577040.8
	0.0	-4355.7	3.5	57740.3	-752.8	-548672.2
	0.0	-5039.0	-0.2	92681.3	36.1	-638220.7
	0.0	-4822.5	1.0	81627.8	-214.1	-609852.1
	0.0	-4925.7	0.4	86807.2	-93.1	-623380.6
	0.0	-4709.2	1.6	75753.7	-343.3	-595012.0
	0.0	-5392.5	-2.1	110694.7	445.6	-684560.5
	0.0	-5176.1	-0.9	99641.2	195.4	-656191.9
	0.0	-5001.9	0.0	90334.0	-9.6	-633382.3
	0.0	-4785.4	1.2	79280.6	-259.7	-605013.7
	0.0	-5468.7	-2.5	114221.5	529.1	-694562.2
	0.0	-5252.3	-1.3	103168.1	279.0	-666193.6
	0.0	-5355.4	-1.9	108347.4	400.0	-679722.1
	0.0	-5139.0	-0.7	97294.0	149.8	-651353.5
	0.0	-5822.3	-4.4	132234.9	938.7	-740902.0
	0.0	-5605.8	-3.2	121181.5	688.5	-712533.4
Asta	34	nod1	33	11		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3889.1	4.6	90570.5	586.1	-686698.2
	0.0	4002.4	6.9	91047.5	877.8	-701310.0
	0.0	3644.6	-0.3	89536.6	-42.1	-655179.2
	0.0	3757.9	2.0	90013.6	249.7	-669790.9
	0.0	3704.2	0.9	89796.7	108.6	-662837.6
	0.0	3817.5	3.2	90273.7	400.3	-677449.4
	0.0	3459.7	-4.1	88762.8	-519.6	-631318.5
	0.0	3573.0	-1.8	89239.8	-227.8	-645930.3
	0.0	3665.8	0.1	89741.5	11.2	-657741.0
	0.0	3779.1	2.4	90218.5	302.9	-672352.8
	0.0	3421.3	-4.9	88707.6	-616.9	-626222.0
	0.0	3534.6	-2.6	89184.6	-325.2	-640833.7
	0.0	3480.9	-3.7	88967.7	-466.3	-633880.4
	0.0	3594.2	-1.4	89444.7	-174.6	-648492.2
	0.0	3236.4	-8.7	87933.8	-1094.4	-602361.3
	0.0	3349.7	-6.3	88410.8	-802.7	-616973.1
109.	0.0	1757.7	4.6	94364.0	79.0	-378221.9
	0.0	1895.6	6.9	94554.7	118.4	-379079.9
	0.0	1459.9	-0.3	93950.2	-5.7	-376387.2
	0.0	1597.9	2.0	94140.9	33.7	-377245.3
	0.0	1532.5	0.9	94055.7	14.6	-376808.5
	0.0	1670.5	3.2	94246.4	54.0	-377666.5
	0.0	1234.8	-4.1	93641.9	-70.1	-374973.9
	0.0	1372.7	-1.8	93832.6	-30.8	-375831.9
	0.0	1485.5	0.1	94076.0	1.3	-376389.4
	0.0	1623.4	2.4	94266.7	40.7	-377247.5
	0.0	1187.7	-4.9	93662.2	-83.4	-374554.8
	0.0	1325.7	-2.6	93852.8	-44.0	-375412.8
	0.0	1260.3	-3.7	93767.7	-63.1	-374976.0
	0.0	1398.3	-1.4	93958.4	-23.7	-375834.1
	0.0	962.6	-8.6	93353.9	-147.8	-373141.4
	0.0	1100.5	-6.3	93544.6	-108.5	-373999.5
219.	0.0	-247.9	4.6	99696.2	-427.8	-297413.2

	0.0	-85.8	6.9	99603.7	-640.7	-281853.3
	0.0	-597.6	-0.3	99895.7	30.7	-331013.9
	0.0	-435.5	2.0	99803.2	-182.2	-315454.0
	0.0	-512.3	0.9	99848.4	-79.3	-322795.0
	0.0	-350.3	3.2	99755.9	-292.2	-307235.1
	0.0	-862.0	-4.1	100047.9	379.1	-356395.8
	0.0	-700.0	-1.8	99955.4	166.2	-340835.9
	0.0	-567.4	0.1	99970.2	-8.5	-327975.2
	0.0	-405.4	2.4	99877.7	-221.4	-312415.3
	0.0	-917.1	-4.9	100169.6	449.9	-361575.9
	0.0	-755.1	-2.6	100077.1	237.0	-346016.1
	0.0	-831.8	-3.7	100122.3	339.9	-353357.1
	0.0	-669.8	-1.4	100029.8	127.0	-337797.2
	0.0	-1181.5	-8.7	100321.8	798.3	-386957.8
	0.0	-1019.5	-6.3	100229.3	585.4	-371397.9
Asta	35	nod	11	16		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3591.1	1.7	-41594.4	339.4	-256506.1
	0.0	3760.1	2.5	-44101.9	508.4	-279105.1
	0.0	3226.8	-0.1	-36182.7	-24.5	-207823.1
	0.0	3395.8	0.7	-38690.2	144.5	-230422.1
	0.0	3315.1	0.3	-37501.0	62.9	-219545.2
	0.0	3484.0	1.1	-40008.5	231.9	-242144.2
	0.0	2950.8	-1.5	-32089.3	-300.9	-170862.3
	0.0	3119.7	-0.7	-34596.8	-131.9	-193461.3
	0.0	3254.5	0.0	-36583.8	6.9	-211130.1
	0.0	3423.5	0.9	-39091.3	175.9	-233729.1
	0.0	2890.2	-1.8	-31172.1	-356.9	-162447.1
	0.0	3059.2	-0.9	-33679.6	-187.9	-185046.2
	0.0	2978.5	-1.3	-32490.4	-269.5	-174169.3
	0.0	3147.4	-0.5	-34997.9	-100.5	-196768.3
	0.0	2614.2	-3.1	-27078.6	-633.3	-125486.3
	0.0	2783.1	-2.3	-29586.2	-464.3	-148085.3
205.	0.0	450.6	1.7	-31023.9	-2.6	142653.5
	0.0	663.4	2.5	-34146.4	-3.9	158997.9
	0.0	-8.4	-0.1	-24280.9	0.3	107344.2
	0.0	204.4	0.7	-27403.4	-1.0	123688.6
	0.0	103.1	0.3	-25930.1	-0.5	116003.9
	0.0	315.9	1.1	-29052.6	-1.8	132348.3
	0.0	-355.9	-1.5	-19187.1	2.4	80694.6
	0.0	-143.1	-0.6	-22309.6	1.1	97039.0
	0.0	28.3	0.0	-24828.2	-0.1	110603.2
	0.0	241.1	0.9	-27950.7	-1.4	126947.5
	0.0	-430.7	-1.8	-18085.3	2.7	75293.9
	0.0	-217.9	-0.9	-21207.8	1.4	91638.2
	0.0	-319.2	-1.3	-19734.4	2.0	83953.6
	0.0	-106.4	-0.5	-22856.9	0.6	100298.0
	0.0	-778.2	-3.1	-12991.4	4.8	48644.3
	0.0	-565.4	-2.3	-16113.9	3.5	64988.6
409.	0.0	-1880.9	1.7	-22203.3	-344.6	-16119.3
	0.0	-1630.1	2.5	-26116.9	-516.3	48284.5
	0.0	-2422.1	-0.1	-13748.8	25.1	-155120.7
	0.0	-2171.3	0.7	-17662.4	-146.6	-90716.9
	0.0	-2290.3	0.3	-15821.7	-63.9	-121236.7
	0.0	-2039.5	1.1	-19735.3	-235.6	-56832.9
	0.0	-2831.6	-1.5	-7367.2	305.8	-260238.1
	0.0	-2580.7	-0.7	-11280.8	134.1	-195834.3
	0.0	-2377.4	0.0	-14473.0	-7.2	-143408.9
	0.0	-2126.6	0.9	-18386.6	-178.9	-79005.2
	0.0	-2918.6	-1.8	-6018.5	362.5	-282410.3
	0.0	-2667.8	-0.9	-9932.1	190.8	-218006.5
	0.0	-2786.9	-1.3	-8091.4	273.5	-248526.3
	0.0	-2536.1	-0.5	-12005.0	101.8	-184122.6
	0.0	-3328.1	-3.1	363.1	643.2	-387527.7
	0.0	-3077.3	-2.3	-3550.5	471.5	-323124.0
Asta	36	nod	16	35		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2449.5	3.4	-41299.4	396.0	-129405.5
	0.0	2509.3	5.1	-42550.1	593.3	-111760.0
	0.0	2321.0	-0.2	-38614.2	-28.9	-167573.6
	0.0	2380.8	1.4	-39864.9	168.4	-149928.0
	0.0	2351.4	0.6	-39244.9	73.4	-158137.4
	0.0	2411.2	2.3	-40495.6	270.8	-140491.9
	0.0	2222.9	-3.0	-36559.7	-351.5	-196305.5
	0.0	2282.7	-1.3	-37810.4	-154.1	-178659.9
	0.0	2327.2	0.1	-38705.5	8.2	-163785.8
	0.0	2387.0	1.8	-39956.2	205.5	-146140.2
	0.0	2198.7	-3.6	-36020.3	-416.8	-201953.8
	0.0	2258.5	-1.9	-37271.0	-219.4	-184308.3
	0.0	2229.1	-2.7	-36650.9	-314.4	-192517.7
	0.0	2288.9	-1.0	-37901.6	-117.0	-174872.1
	0.0	2100.6	-6.4	-33965.7	-739.3	-230685.7
	0.0	2160.4	-4.7	-35216.4	-541.9	-213040.2
108.	0.0	1479.8	3.4	-37390.3	27.2	82001.1
	0.0	1529.5	5.1	-39121.0	40.9	105869.7
	0.0	1373.2	-0.2	-33667.0	-2.1	30466.1
	0.0	1422.9	1.4	-35397.7	11.6	54334.7
	0.0	1398.3	0.6	-34554.0	4.9	43058.8
	0.0	1447.9	2.3	-36284.7	18.6	66927.4

	0.0	1291.6	-3.0	-30830.7	-24.4	-8476.2
	0.0	1341.3	-1.3	-32561.4	-10.7	15392.4
	0.0	1377.8	0.1	-33862.3	1.0	34899.6
	0.0	1427.5	1.8	-35593.0	14.7	58768.2
	0.0	1271.2	-3.6	-30139.0	-28.3	-16635.4
	0.0	1320.9	-1.9	-31869.7	-14.6	7233.2
	0.0	1296.3	-2.7	-31026.1	-21.3	-4042.7
	0.0	1346.0	-1.0	-32756.8	-7.6	19825.9
	0.0	1189.7	-6.3	-27302.8	-50.5	-55577.7
	0.0	1239.3	-4.7	-29033.5	-36.8	-31709.1
217.	0.0	685.2	3.4	-34085.4	-341.6	197962.4
	0.0	688.9	5.1	-36324.1	-511.5	225085.7
	0.0	677.9	-0.2	-29263.9	24.7	139465.5
	0.0	681.5	1.4	-31502.5	-145.2	166588.8
	0.0	678.8	0.6	-30421.7	-63.6	153656.3
	0.0	682.4	2.3	-32660.4	-233.5	180779.6
	0.0	671.4	-3.0	-25600.1	302.7	95159.4
	0.0	675.1	-1.3	-27838.8	132.8	122282.7
	0.0	674.0	0.1	-29566.2	-6.2	144023.8
	0.0	677.6	1.8	-31804.9	-176.1	171147.0
	0.0	666.7	-3.6	-24744.6	360.1	85526.9
	0.0	670.3	-1.9	-26983.3	190.2	112650.1
	0.0	667.6	-2.7	-25902.5	271.8	99717.7
	0.0	671.2	-1.0	-28141.2	101.8	126841.0
	0.0	660.2	-6.4	-21080.9	638.1	41220.8
	0.0	663.9	-4.7	-23319.6	468.1	68344.1
Asta	38	nod	37	38		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-480.6	0.8	22023.6	5.7	566585.1
	0.0	-433.4	1.1	27226.2	8.5	561644.7
	0.0	-582.5	-0.1	10769.9	-0.4	577266.7
	0.0	-535.3	0.3	15972.4	2.5	572326.2
	0.0	-557.7	0.1	13548.2	1.0	574635.3
	0.0	-510.5	0.5	18750.8	3.8	569694.9
	0.0	-659.6	-0.7	2294.4	-5.0	585316.9
	0.0	-612.4	-0.3	7497.0	-2.2	580376.5
	0.0	-575.3	0.0	11942.9	0.1	576287.1
	0.0	-528.1	0.4	17145.5	2.9	571346.7
	0.0	-677.2	-0.8	689.2	-5.9	586968.7
	0.0	-630.0	-0.4	5891.7	-3.1	582028.3
	0.0	-652.4	-0.6	3467.5	-4.6	584337.3
	0.0	-605.2	-0.2	8670.1	-1.7	579396.9
	0.0	-754.3	-1.4	-7786.3	-10.6	595018.9
	0.0	-707.1	-1.0	-2583.7	-7.8	590078.5
171.	0.0	-3162.6	0.8	29131.0	-124.8	265229.5
	0.0	-3114.6	1.2	34029.8	-186.9	268402.3
	0.0	-3266.1	-0.1	18535.4	8.9	258406.2
	0.0	-3218.1	0.3	23434.2	-53.2	261578.9
	0.0	-3241.0	0.1	21149.7	-23.1	260033.2
	0.0	-3193.0	0.5	26048.5	-85.2	263206.0
	0.0	-3344.5	-0.7	10554.1	110.6	253209.9
	0.0	-3296.5	-0.3	15452.9	48.5	256382.7
	0.0	-3259.2	0.0	19629.8	-2.4	258627.0
	0.0	-3211.2	0.4	24528.6	-64.5	261799.7
	0.0	-3362.7	-0.8	9034.2	131.2	251803.7
	0.0	-3314.7	-0.4	13933.0	69.2	254976.4
	0.0	-3337.6	-0.6	11648.5	99.3	253430.7
	0.0	-3289.6	-0.2	16547.3	37.2	256603.5
	0.0	-3441.1	-1.4	1052.9	232.9	246607.4
	0.0	-3393.1	-1.1	5951.7	170.8	249780.2
342.	0.0	-6737.6	0.8	37394.0	-257.6	-567261.2
	0.0	-6688.4	1.2	42183.3	-385.7	-555743.1
	0.0	-6843.7	-0.1	27036.3	18.3	-592084.5
	0.0	-6794.5	0.3	31825.6	-109.9	-580566.5
	0.0	-6817.9	0.1	29590.1	-47.6	-586087.3
	0.0	-6768.8	0.5	34379.5	-175.8	-574569.2
	0.0	-6924.0	-0.7	19232.4	228.2	-610910.6
	0.0	-6874.8	-0.3	24021.8	100.1	-599392.5
	0.0	-6836.8	0.0	28095.4	-5.0	-590677.9
	0.0	-6787.6	0.4	32884.7	-133.2	-579159.8
	0.0	-6942.9	-0.8	17737.7	270.9	-615501.2
	0.0	-6893.7	-0.4	22527.0	142.7	-603983.1
	0.0	-6917.1	-0.6	20291.5	205.0	-609503.9
	0.0	-6867.9	-0.2	25080.9	76.8	-597985.9
	0.0	-7023.2	-1.5	9933.8	480.8	-634327.2
	0.0	-6974.0	-1.1	14723.2	352.7	-622809.2
Asta	39	nod	4	39		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	1426.5	0.6	849.7	174.5	63972.1
	0.0	1422.0	0.8	6970.7	261.2	57337.6
	0.0	1436.5	0.0	-12354.7	-12.5	78292.9
	0.0	1431.9	0.2	-6233.7	74.3	71658.4
	0.0	1433.8	0.1	-9141.6	32.5	74797.4
	0.0	1429.3	0.4	-3020.6	119.3	68162.9
	0.0	1443.8	-0.5	-22346.0	-154.4	89118.1
	0.0	1439.2	-0.2	-16225.0	-67.6	82483.6
	0.0	1433.1	0.0	-11472.5	3.2	77291.6
	0.0	1428.6	0.3	-5351.5	89.9	70657.1
	0.0	1443.1	-0.6	-24676.9	-183.8	91612.4

	0.0	1438.5	-0.3	-18555.9	-97.0	84977.9
	0.0	1440.4	-0.4	-21463.9	-138.8	88116.9
	0.0	1435.9	-0.2	-15342.9	-52.0	81482.4
	0.0	1450.4	-1.0	-34668.3	-325.7	102437.6
112.	0.0	1445.8	-0.8	-28547.3	-238.9	95803.1
	0.0	-435.2	0.6	-4248.2	112.3	121791.0
	0.0	-433.0	0.8	1532.1	168.2	114928.6
	0.0	-439.7	0.0	-16717.1	-8.0	136621.4
	0.0	-437.5	0.2	-10936.8	47.8	129759.0
	0.0	-438.8	0.1	-13683.8	20.9	132977.7
	0.0	-436.6	0.4	-7903.5	76.8	126115.2
	0.0	-443.3	-0.5	-26152.7	-99.4	147808.1
	0.0	-441.2	-0.2	-20372.4	-43.5	140945.7
	0.0	-442.2	0.0	-15891.9	2.1	135265.7
	0.0	-440.1	0.3	-10111.6	57.9	128403.2
	0.0	-446.8	-0.6	-28360.8	-118.3	150096.1
	0.0	-444.6	-0.3	-22580.5	-62.4	143233.6
	0.0	-445.8	-0.4	-25327.5	-89.3	146452.4
	0.0	-443.7	-0.2	-19547.2	-33.4	139589.9
	0.0	-450.4	-1.0	-37796.4	-209.7	161282.8
225.	0.0	-448.2	-0.8	-32016.0	-153.8	154420.3
	0.0	-2536.0	0.5	-9420.0	50.5	-42962.7
	0.0	-2515.6	0.8	-3879.9	75.7	-48677.8
	0.0	-2579.9	0.0	-21370.1	-3.6	-30595.3
	0.0	-2559.5	0.2	-15830.0	21.5	-36310.3
	0.0	-2569.3	0.1	-18463.8	9.4	-33656.1
	0.0	-2548.9	0.4	-12923.7	34.5	-39371.2
	0.0	-2613.2	-0.5	-30413.9	-44.8	-21288.6
	0.0	-2592.8	-0.2	-24873.8	-19.6	-27003.7
	0.0	-2578.3	0.0	-20587.5	1.0	-32010.7
	0.0	-2558.0	0.3	-15047.4	26.1	-37725.8
	0.0	-2622.2	-0.6	-32537.6	-53.2	-19643.3
	0.0	-2601.8	-0.3	-26997.5	-28.0	-25358.3
	0.0	-2611.6	-0.4	-29631.3	-40.2	-22704.1
	0.0	-2591.3	-0.2	-24091.2	-15.0	-28419.2
	0.0	-2655.5	-1.0	-41581.4	-94.3	-10336.7
	0.0	-2635.1	-0.8	-36041.3	-69.2	-16051.7
Asta	40	nodl	39	40		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-2536.0	3.1	-43162.3	50.5	8459.0
	0.0	-2515.6	4.6	-48752.4	75.7	2792.8
	0.0	-2579.9	-0.2	-31064.6	-3.6	20682.1
	0.0	-2559.5	1.3	-36654.6	21.5	15015.9
	0.0	-2569.3	0.6	-34059.8	9.4	17708.3
	0.0	-2548.9	2.1	-39649.9	34.5	12042.0
	0.0	-2613.2	-2.7	-21962.1	-44.8	29931.4
	0.0	-2592.8	-1.2	-27552.1	-19.6	24265.1
	0.0	-2578.3	0.1	-32462.1	1.0	19868.0
	0.0	-2558.0	1.6	-38052.1	26.1	14201.7
	0.0	-2622.2	-3.3	-20364.3	-53.2	32091.1
	0.0	-2601.8	-1.7	-25954.4	-28.0	26424.8
	0.0	-2611.6	-2.5	-23359.6	-40.2	29117.2
	0.0	-2591.3	-0.9	-28949.6	-15.0	23451.0
	0.0	-2655.5	-5.8	-11261.9	-94.3	41340.3
	0.0	-2635.1	-4.2	-16851.9	-69.2	35674.1
115.	0.0	-4998.4	3.1	-39244.9	-305.0	-421061.1
	0.0	-4958.0	4.6	-45132.1	-456.8	-423133.7
	0.0	-5085.8	-0.2	-26504.9	21.9	-416587.8
	0.0	-5045.3	1.3	-32392.0	-129.9	-418660.4
	0.0	-5064.5	0.6	-29658.1	-56.7	-417680.0
	0.0	-5024.0	2.1	-35545.3	-208.5	-419752.5
	0.0	-5151.8	-2.7	-16918.1	270.2	-413206.6
	0.0	-5111.4	-1.2	-22805.3	118.4	-415279.2
	0.0	-5079.9	0.1	-27966.8	-5.9	-416957.4
	0.0	-5039.4	1.6	-33853.9	-157.7	-419029.9
	0.0	-5167.2	-3.3	-15226.7	321.1	-412484.0
	0.0	-5126.8	-1.7	-21113.9	169.3	-414556.6
	0.0	-5146.0	-2.5	-18380.0	242.4	-413576.2
	0.0	-5105.5	-0.9	-24267.1	90.6	-415648.8
	0.0	-5233.3	-5.8	-5640.0	569.4	-409102.9
	0.0	-5192.8	-4.2	-11527.1	417.6	-411175.4
230.	0.0	-7765.4	3.1	-36039.8	-661.8	-1153143.5
	0.0	-7714.2	4.7	-42330.9	-991.1	-1149860.6
	0.0	-7875.7	-0.2	-22426.2	47.5	-1160228.4
	0.0	-7824.6	1.3	-28717.3	-281.8	-1156945.4
	0.0	-7848.8	0.6	-25794.7	-123.0	-1158502.4
	0.0	-7797.7	2.1	-32085.8	-452.4	-1155219.4
	0.0	-7959.2	-2.8	-12181.2	586.3	-1165587.2
	0.0	-7908.1	-1.2	-18472.3	256.9	-1162304.2
	0.0	-7867.4	0.1	-23979.0	-12.8	-1159764.4
	0.0	-7816.3	1.6	-30270.2	-342.1	-1156481.4
	0.0	-7977.8	-3.3	-10365.5	696.5	-1166849.2
	0.0	-7926.7	-1.7	-16656.6	367.2	-1163566.3
	0.0	-7950.9	-2.5	-13734.0	526.0	-1165123.3
	0.0	-7899.7	-0.9	-20025.1	196.6	-1161840.3
	0.0	-8061.2	-5.8	-120.4	1235.3	-1172208.1
	0.0	-8010.1	-4.3	-6411.6	905.9	-1168925.1
Asta	41	nodl	40	37		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ

0.	0.0	8629.6	1.1	13629.9	411.9	-1143845.8
	0.0	8675.7	1.7	17004.8	616.8	-1160518.2
	0.0	8530.2	-0.1	6343.1	-29.6	-1107848.2
	0.0	8576.3	0.5	9718.0	175.4	-1124520.6
	0.0	8554.5	0.2	8123.2	76.6	-1116650.2
	0.0	8600.5	0.8	11498.1	281.6	-1133322.6
	0.0	8455.1	-1.0	836.4	-364.9	-1080652.7
	0.0	8501.1	-0.4	4211.3	-159.9	-1097325.0
	0.0	8536.6	0.0	7033.7	7.9	-1110517.4
	0.0	8582.7	0.6	10408.6	212.9	-1127189.7
	0.0	8437.2	-1.2	-253.1	-433.5	-1074519.8
	0.0	8483.3	-0.6	3121.8	-228.5	-1091192.2
	0.0	8461.5	-0.9	1526.9	-327.3	-1083321.8
	0.0	8507.5	-0.3	4901.8	-122.4	-1099994.2
	0.0	8362.1	-2.1	-5759.9	-768.8	-1047324.2
	0.0	8408.1	-1.5	-2385.0	-563.8	-1063996.6
	0.0	3212.3	1.1	20543.5	146.0	279466.1
246.	0.0	3258.5	1.6	23041.1	218.7	274454.8
	0.0	3112.6	-0.1	15154.2	-10.5	290291.0
	0.0	3158.8	0.4	17651.9	62.2	285279.7
	0.0	3136.9	0.2	16465.8	27.1	287637.6
	0.0	3183.1	0.7	18963.5	99.8	282626.3
	0.0	3037.2	-0.9	11076.6	-129.4	298462.5
	0.0	3083.4	-0.4	13574.2	-56.7	293451.2
	0.0	3119.7	0.0	15641.6	2.8	289364.3
	0.0	3165.9	0.5	18139.3	75.5	284352.9
	0.0	3020.0	-1.1	10252.3	-153.7	300189.2
	0.0	3066.2	-0.6	12750.0	-81.0	295177.9
	0.0	3044.3	-0.8	11564.0	-116.1	297535.8
	0.0	3090.6	-0.3	14061.6	-43.4	292524.4
	0.0	2944.6	-2.0	6174.7	-272.6	308360.7
491.	0.0	2990.8	-1.4	8672.3	-199.9	303349.4
	0.0	-588.5	1.0	29106.6	-107.9	578177.2
	0.0	-543.7	1.5	30927.6	-161.6	584235.6
	0.0	-685.3	-0.1	25182.1	7.8	565109.5
	0.0	-640.4	0.4	27003.1	-45.9	571167.9
	0.0	-661.7	0.2	26130.6	-20.1	568283.8
	0.0	-616.9	0.7	27951.6	-73.8	574342.2
	0.0	-758.4	-0.9	22206.1	95.6	555216.0
	0.0	-713.6	-0.4	24027.1	41.9	561274.4
	0.0	-678.5	0.0	25505.5	-2.1	565882.5
	0.0	-633.7	0.5	27326.4	-55.8	571940.9
	0.0	-775.3	-1.1	21581.0	113.6	552814.8
	0.0	-730.4	-0.6	23402.0	59.9	558873.2
	0.0	-751.7	-0.8	22529.5	85.7	555989.1
	0.0	-706.9	-0.3	24350.4	32.0	562047.5
	0.0	-848.4	-1.9	18605.0	201.4	542921.3
	0.0	-803.6	-1.4	20426.0	147.7	548979.7
Asta	42	nod	37	41		
	PROGR.	NORM	TYT	TZZ	TORS	MYT
	0.	0.0	-107.9	-1.9	-11599.6	-113.6
	0.0	-110.3	-2.8	-22594.4	-170.1	3674.5
	0.0	-102.7	0.1	12141.0	8.1	14426.4
	0.0	-105.1	-0.8	1146.2	-48.4	11031.8
	0.0	-104.0	-0.4	6337.6	-21.1	12589.6
	0.0	-106.4	-1.3	-4657.2	-77.6	9195.0
	0.0	-98.8	1.7	30078.2	100.6	19946.9
	0.0	-101.2	0.7	19083.4	44.1	16552.4
	0.0	-103.2	0.0	10387.8	-2.2	13575.0
	0.0	-105.6	-1.0	-607.0	-58.7	10180.5
	0.0	-98.0	2.0	34128.4	119.5	20932.4
	0.0	-100.4	1.0	23133.6	63.0	17537.8
	0.0	-99.3	1.5	28325.0	90.3	19095.6
	0.0	-101.7	0.6	17330.2	33.8	15701.0
	0.0	-94.1	3.5	52065.6	212.0	26452.9
	0.0	-96.5	2.6	41070.8	155.5	23058.4
	0.0	-539.5	-1.9	-12023.3	-56.8	-2600.8
30.	0.0	-541.3	-2.8	-23027.5	-85.0	-6060.9
	0.0	-535.7	0.1	11737.8	4.1	4898.1
	0.0	-537.5	-0.8	733.5	-24.2	1438.0
	0.0	-536.6	-0.4	5929.3	-10.5	3026.6
	0.0	-538.4	-1.3	-5074.9	-38.8	-433.5
	0.0	-532.8	1.7	29690.4	50.3	10525.5
	0.0	-534.6	0.7	18686.1	22.0	7065.4
	0.0	-536.1	0.0	9982.8	-1.1	4033.2
	0.0	-537.8	-1.0	-1021.5	-29.4	573.2
	0.0	-532.2	2.0	33743.8	59.7	11532.1
	0.0	-534.0	1.0	22739.5	31.5	8072.1
	0.0	-533.2	1.5	27935.4	45.1	9660.6
	0.0	-534.9	0.6	16931.1	16.9	6200.6
	0.0	-529.3	3.5	51696.4	106.0	17159.5
	0.0	-531.1	2.6	40692.1	77.7	13699.5
60.	0.0	-990.0	-1.9	-12461.9	0.0	-25509.4
	0.0	-990.0	-2.8	-23489.4	0.0	-28999.0
	0.0	-990.0	0.1	11349.2	0.0	-17946.6
	0.0	-990.0	-0.8	321.7	0.0	-21436.2
	0.0	-990.0	-0.4	5528.5	0.0	-19833.8
	0.0	-990.0	-1.3	-5499.0	0.0	-23323.4
	0.0	-990.0	1.7	29339.6	0.0	-12271.0
	0.0	-990.0	0.7	18312.1	0.0	-15760.6

	0.0	-990.0	0.0	9590.2	0.0	-18817.8
	0.0	-990.0	-1.0	-1437.2	0.0	-22307.4
	0.0	-990.0	2.0	33401.3	0.0	-11255.0
	0.0	-990.0	1.0	22373.8	0.0	-14744.6
	0.0	-990.0	1.5	27580.6	0.0	-13142.2
	0.0	-990.0	0.6	16553.1	0.0	-16631.8
	0.0	-990.0	3.5	51391.7	0.0	-5579.4
	0.0	-990.0	2.6	40364.2	0.0	-9069.0
Asta	43	nod	43	42		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2639.7	2.4	15482.3	520.7	-103166.6
	0.0	2651.8	3.6	22341.3	779.5	-101135.9
	0.0	2613.4	-0.2	660.2	-37.0	-107568.2
	0.0	2625.6	1.0	7519.2	221.8	-105537.5
	0.0	2619.8	0.4	4298.8	97.7	-106473.3
	0.0	2632.0	1.7	11157.8	356.5	-104442.6
	0.0	2593.6	-2.1	-10523.3	-460.0	-110874.9
	0.0	2605.8	-0.9	-3664.3	-201.2	-108844.2
	0.0	2613.4	0.0	2065.7	9.2	-106808.3
	0.0	2625.6	1.3	8924.7	268.1	-104777.6
	0.0	2587.2	-2.5	-12756.4	-548.5	-111209.9
	0.0	2599.4	-1.3	-5897.4	-289.6	-109179.2
	0.0	2593.6	-1.9	-9117.8	-413.8	-110115.0
	0.0	2605.8	-0.7	-2258.8	-154.9	-108084.3
	0.0	2567.4	-4.5	-23939.9	-971.5	-114516.6
	0.0	2579.5	-3.3	-17080.9	-712.6	-112485.9
187.	0.0	121.3	2.4	6894.3	68.6	158803.5
	0.0	114.3	3.6	13240.8	102.4	161056.0
	0.0	136.4	-0.2	-6820.0	-4.3	153933.1
	0.0	129.5	1.0	-473.5	29.5	156185.6
	0.0	132.7	0.4	-3453.9	13.6	155137.5
	0.0	125.7	1.6	2892.6	47.4	157390.1
	0.0	147.8	-2.1	-17168.2	-59.4	150267.1
	0.0	140.9	-0.9	-10821.7	-25.5	152519.6
	0.0	132.6	0.0	-5520.3	0.5	154278.4
	0.0	125.6	1.2	826.2	34.3	156530.9
	0.0	147.8	-2.5	-19234.5	-72.4	149408.0
	0.0	140.8	-1.3	-12888.0	-38.6	151660.5
	0.0	144.0	-1.9	-15868.5	-54.5	150612.4
	0.0	137.0	-0.7	-9522.0	-20.7	152864.9
	0.0	159.2	-4.5	-29582.7	-127.5	145742.0
	0.0	152.2	-3.3	-23236.3	-93.6	147994.5
375.	0.0	-2668.2	2.4	-1366.0	-381.6	-74475.7
	0.0	-2679.3	3.6	4769.6	-571.9	-74128.7
	0.0	-2644.1	-0.2	-14624.3	28.2	-75215.1
	0.0	-2655.2	1.0	-8488.6	-162.1	-74868.1
	0.0	-2650.1	0.4	-11370.8	-70.1	-75033.8
	0.0	-2661.2	1.6	-5235.2	-260.4	-74686.8
	0.0	-2626.0	-2.1	-24629.1	339.7	-75773.2
	0.0	-2637.1	-0.9	-18493.5	149.4	-75426.2
	0.0	-2648.9	0.0	-13368.7	-8.1	-75844.0
	0.0	-2660.0	1.2	-7233.0	-198.4	-75497.0
	0.0	-2624.8	-2.5	-26627.0	401.6	-76583.4
	0.0	-2635.9	-1.3	-20491.3	211.3	-76236.4
	0.0	-2630.7	-1.9	-23373.5	303.3	-76402.1
	0.0	-2641.8	-0.7	-17237.8	113.0	-76055.1
	0.0	-2606.6	-4.5	-36631.8	713.1	-77141.5
	0.0	-2617.7	-3.3	-30496.1	522.8	-76794.5
Asta	44	nod	44	43		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2196.8	2.0	-53993.3	469.2	4992.3
	0.0	2182.4	2.9	-55793.8	702.4	-3423.2
	0.0	2228.0	-0.1	-50101.2	-33.1	23169.0
	0.0	2213.5	0.8	-51901.7	200.2	14753.6
	0.0	2220.4	0.4	-51059.6	87.4	18704.1
	0.0	2206.0	1.3	-52860.2	320.6	10288.6
	0.0	2251.5	-1.7	-47167.5	-414.9	36880.8
	0.0	2237.1	-0.8	-48968.1	-181.7	28465.3
	0.0	2223.5	0.0	-50436.8	8.7	22069.8
	0.0	2209.1	1.0	-52237.4	241.9	13654.4
	0.0	2254.7	-2.1	-46544.7	-493.6	40246.5
	0.0	2240.2	-1.1	-48345.3	-260.3	31831.1
	0.0	2247.1	-1.6	-47503.2	-373.2	35781.6
	0.0	2232.7	-0.6	-49303.7	-139.9	27366.2
	0.0	2278.2	-3.6	-43611.1	-875.4	53958.3
	0.0	2263.8	-2.7	-45411.6	-642.2	45542.9
248.	0.0	30.2	1.9	-53681.1	-13.0	283508.0
	0.0	68.6	2.9	-55977.7	-19.4	279509.1
	0.0	-52.6	-0.1	-48716.7	0.8	292140.2
	0.0	-14.3	0.8	-51013.3	-5.5	288141.2
	0.0	-32.3	0.4	-49938.7	-2.8	290030.1
	0.0	6.1	1.3	-52235.3	-9.2	286031.2
	0.0	-115.1	-1.7	-44974.3	11.0	298662.2
	0.0	-76.8	-0.7	-47270.9	4.6	294663.3
	0.0	-46.8	0.0	-49161.9	0.1	291497.9
	0.0	-8.4	1.0	-51458.6	-6.3	287499.0
	0.0	-129.6	-2.0	-44197.5	13.9	300130.1
	0.0	-91.3	-1.1	-46494.2	7.5	296131.2
	0.0	-109.2	-1.5	-45419.5	10.2	298020.0

	0.0	-70.9	-0.6	-47716.2	3.9	294021.1
	0.0	-192.1	-3.6	-40455.1	24.1	306652.1
	0.0	-153.7	-2.7	-42751.8	17.7	302653.2
496.	0.0	-2654.5	2.0	-57756.9	-496.3	-22926.4
	0.0	-2624.1	2.9	-60737.3	-742.8	-17229.5
	0.0	-2720.2	-0.1	-51314.4	34.9	-35241.9
	0.0	-2689.8	0.8	-54294.8	-211.7	-29545.0
	0.0	-2704.1	0.4	-52899.8	-93.3	-32203.1
	0.0	-2673.7	1.3	-55880.2	-339.8	-26506.3
	0.0	-2769.8	-1.7	-46457.3	437.9	-44518.6
	0.0	-2739.3	-0.8	-49437.8	191.3	-38821.7
	0.0	-2716.3	0.0	-51905.6	-8.6	-34431.8
	0.0	-2685.9	1.0	-54886.0	-255.1	-28735.0
	0.0	-2782.0	-2.1	-45463.1	522.6	-46747.3
	0.0	-2751.6	-1.1	-48443.5	276.0	-41050.4
	0.0	-2765.9	-1.6	-47048.5	394.5	-43708.5
	0.0	-2735.5	-0.6	-50028.9	147.9	-38011.7
	0.0	-2831.6	-3.7	-40606.0	925.6	-56024.0
	0.0	-2801.2	-2.7	-43586.5	679.1	-50327.2
Asta	45	nodì	45	44		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2256.0	1.8	67441.3	451.2	-87603.5
	0.0	2109.4	2.7	68280.0	675.5	-70875.8
	0.0	2572.7	-0.1	65640.6	-31.6	-123727.2
	0.0	2426.0	0.8	66479.3	192.7	-106999.5
	0.0	2495.3	0.3	66067.5	84.0	-114892.3
	0.0	2348.6	1.2	66906.2	308.3	-98164.5
	0.0	2811.9	-1.6	64266.9	-398.8	-151015.9
	0.0	2665.3	-0.7	65105.6	-174.5	-134288.2
	0.0	2545.9	0.0	65621.7	8.2	-120369.5
	0.0	2399.2	0.9	66460.4	232.5	-103641.8
	0.0	2862.5	-1.9	63821.1	-474.6	-156493.2
	0.0	2715.9	-1.0	64659.8	-250.3	-139765.5
	0.0	2785.1	-1.4	64248.0	-359.0	-147658.2
	0.0	2638.4	-0.5	65086.7	-134.7	-130930.5
	0.0	3101.8	-3.4	62447.3	-841.8	-183781.9
	0.0	2955.1	-2.5	63286.0	-617.5	-167054.2
250.	0.0	13.7	1.8	62088.5	1.0	188818.0
	0.0	-46.7	2.7	62206.1	1.4	179937.3
	0.0	144.2	-0.1	61843.9	0.0	207996.6
	0.0	83.8	0.8	61961.6	0.5	199115.9
	0.0	112.2	0.3	61890.9	0.4	203302.8
	0.0	51.8	1.2	62008.6	0.8	194422.1
	0.0	242.7	-1.6	61646.4	-0.6	222481.4
	0.0	182.3	-0.7	61764.0	-0.1	213600.7
	0.0	131.5	0.0	61698.4	-0.2	206428.4
	0.0	71.1	0.9	61816.0	0.3	197547.7
	0.0	262.0	-1.9	61453.9	-1.1	225607.0
	0.0	201.6	-1.0	61571.5	-0.7	216726.3
	0.0	230.1	-1.4	61500.9	-0.8	220913.2
	0.0	169.6	-0.5	61618.5	-0.4	212032.5
	0.0	360.5	-3.3	61256.3	-1.7	240091.8
	0.0	300.1	-2.5	61374.0	-1.3	231211.1
500.	0.0	-2097.5	1.8	61871.2	-449.2	-69734.1
	0.0	-2077.8	2.7	61277.5	-672.6	-83938.0
	0.0	-2140.0	-0.1	63163.5	31.7	-39057.0
	0.0	-2120.3	0.8	62569.9	-191.7	-53260.9
	0.0	-2129.6	0.3	62833.5	-83.3	-46559.4
	0.0	-2109.9	1.2	62239.9	-306.7	-60763.3
	0.0	-2172.1	-1.6	64125.8	397.6	-15882.3
	0.0	-2152.4	-0.7	63532.2	174.2	-30086.2
	0.0	-2138.0	0.0	62912.7	-8.5	-42028.2
	0.0	-2118.3	0.9	62319.0	-231.9	-56232.1
	0.0	-2180.5	-1.9	64205.0	472.3	-11351.1
	0.0	-2160.8	-1.0	63611.4	249.0	-25555.0
	0.0	-2170.1	-1.4	63875.0	357.4	-18853.5
	0.0	-2150.4	-0.5	63281.4	134.0	-33057.4
	0.0	-2212.6	-3.4	65167.3	838.2	11823.6
	0.0	-2192.9	-2.5	64573.7	614.9	-2380.3
Asta	46	nodì	45	4		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	990.2	3.1	121758.6	514.6	97598.0
	0.0	1108.0	4.6	118178.4	770.3	82607.9
	0.0	735.9	-0.2	129488.0	-36.0	129962.5
	0.0	853.7	1.3	125907.7	219.7	114972.5
	0.0	798.1	0.6	127598.5	96.1	122051.2
	0.0	915.9	2.1	124018.3	351.8	107061.2
	0.0	543.8	-2.7	135327.9	-454.5	154415.8
	0.0	661.6	-1.2	131747.6	-198.8	139425.8
	0.0	758.8	0.1	128936.9	9.2	127301.8
	0.0	876.6	1.6	125356.6	264.9	112311.8
	0.0	504.5	-3.2	136666.2	-541.4	159666.4
	0.0	622.3	-1.7	133086.0	-285.7	144676.4
	0.0	566.8	-2.5	134776.8	-409.3	151755.0
	0.0	684.5	-0.9	131196.6	-153.6	136765.0
	0.0	312.4	-5.8	142506.1	-959.9	184119.6
	0.0	430.2	-4.2	138925.9	-704.2	169129.6
132.	0.0	-477.3	3.1	120988.9	106.3	135477.4
	0.0	-322.8	4.6	117358.0	159.0	138755.7

	0.0	-810.8	-0.2	128828.1	-7.3	128391.2
	0.0	-656.4	1.3	125197.2	45.5	131669.6
	0.0	-729.2	0.6	126911.4	19.9	130131.8
	0.0	-574.8	2.1	123280.5	72.6	133410.2
	0.0	-1062.8	-2.7	134750.6	-93.7	123045.7
	0.0	-908.3	-1.2	131119.7	-40.9	126324.1
	0.0	-782.2	0.1	128258.5	1.9	129180.7
	0.0	-627.7	1.6	124627.5	54.6	132459.0
	0.0	-1115.7	-3.2	136097.7	-111.7	122094.6
	0.0	-961.3	-1.7	132466.7	-59.0	125372.9
	0.0	-1034.1	-2.4	134181.0	-84.5	123835.2
	0.0	-879.7	-0.9	130550.0	-31.8	127113.5
	0.0	-1367.7	-5.7	142020.2	-198.1	116749.0
	0.0	-1213.2	-4.2	138389.2	-145.4	120027.4
265.	0.0	-2335.2	3.1	123125.8	-301.3	-46195.6
	0.0	-2165.3	4.6	119356.9	-451.2	-21170.5
	0.0	-2701.9	-0.2	131263.2	21.3	-100241.4
	0.0	-2532.1	1.3	127494.3	-128.5	-75216.3
	0.0	-2612.2	0.6	129273.2	-56.2	-87013.6
	0.0	-2442.4	2.1	125504.3	-206.0	-61988.5
	0.0	-2979.0	-2.7	137410.6	266.4	-141059.4
	0.0	-2809.1	-1.2	133641.7	116.6	-116034.2
	0.0	-2670.7	0.1	130661.3	-5.4	-95443.1
	0.0	-2500.9	1.6	126892.4	-155.3	-70417.9
	0.0	-3037.5	-3.2	138798.7	317.2	-149488.9
	0.0	-2867.6	-1.7	135029.8	167.4	-124463.7
	0.0	-2947.8	-2.4	136808.7	239.7	-136261.0
	0.0	-2777.9	-0.9	133039.8	89.9	-111235.9
	0.0	-3314.5	-5.7	144946.1	562.3	-190306.8
	0.0	-3144.7	-4.2	141177.2	412.5	-165281.7
Asta	47	nod	4	46		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	1561.5	4.3	-32734.0	295.2	68391.5
	0.0	1534.7	6.5	-38699.3	442.1	84451.7
	0.0	1619.4	-0.3	-19833.5	-21.2	33700.4
	0.0	1592.7	1.8	-25798.8	125.7	49760.7
	0.0	1605.1	0.8	-23015.5	55.0	42200.3
	0.0	1578.3	2.9	-28980.8	201.9	58260.5
	0.0	1663.0	-3.8	-10115.0	-261.4	7509.2
	0.0	1636.2	-1.7	-16080.3	-114.5	23569.4
	0.0	1612.6	0.1	-21239.4	5.3	36842.2
	0.0	1585.8	2.2	-27204.7	152.2	52902.5
	0.0	1670.5	-4.5	-8338.9	-311.1	2151.1
	0.0	1643.7	-2.4	-14304.2	-164.2	18211.4
	0.0	1656.2	-3.4	-11520.9	-234.9	10651.0
	0.0	1629.4	-1.3	-17486.2	-88.0	26711.3
	0.0	1714.1	-8.1	1379.6	-551.3	-24040.1
	0.0	1687.3	-5.9	-4585.7	-404.4	-7979.8
108.	0.0	-266.9	4.3	-30056.1	-168.1	140733.5
	0.0	-303.6	6.5	-36217.5	-251.8	153602.1
	0.0	-187.7	-0.3	-16731.8	12.2	112945.6
	0.0	-224.3	1.8	-22893.2	-71.5	125814.2
	0.0	-207.2	0.8	-20018.0	-31.2	119741.8
	0.0	-243.8	2.9	-26179.4	-114.9	132610.4
	0.0	-127.9	-3.8	-6693.7	149.1	91954.0
	0.0	-164.6	-1.7	-12855.1	65.4	104822.6
	0.0	-196.1	0.1	-18180.9	-3.0	115302.5
	0.0	-232.7	2.2	-24342.3	-86.7	128171.1
	0.0	-116.8	-4.5	-4856.6	177.3	87514.6
	0.0	-153.5	-2.4	-11018.0	93.6	100383.2
	0.0	-136.3	-3.4	-8142.8	134.0	94310.8
	0.0	-173.0	-1.3	-14304.2	50.3	107179.4
	0.0	-57.0	-8.1	5181.5	314.2	66523.0
	0.0	-93.7	-5.9	-979.9	230.5	79391.6
215.	0.0	-2421.8	4.3	-27855.8	-631.9	-726.3
	0.0	-2495.1	6.5	-34311.2	-946.5	6488.7
	0.0	-2263.4	-0.3	-13896.0	45.5	-16297.4
	0.0	-2336.7	1.8	-20351.4	-269.0	-9082.3
	0.0	-2302.3	0.8	-17338.6	-117.4	-12501.1
	0.0	-2375.5	3.0	-23794.0	-431.9	-5286.1
	0.0	-2143.9	-3.8	-3378.8	560.0	-28072.1
	0.0	-2217.2	-1.7	-9834.2	245.5	-20857.1
	0.0	-2277.9	0.1	-15411.2	-11.3	-15127.8
	0.0	-2351.2	2.2	-21866.6	-325.8	-7912.8
	0.0	-2119.6	-4.5	-1451.4	666.1	-30698.8
	0.0	-2192.9	-2.4	-7906.8	351.6	-23483.8
	0.0	-2158.4	-3.4	-4894.0	503.3	-26902.6
	0.0	-2231.7	-1.3	-11349.4	188.7	-19687.5
	0.0	-2000.1	-8.1	9065.8	1180.7	-42473.6
	0.0	-2073.4	-5.9	2610.4	866.2	-35258.6
Asta	48	nod	47	48		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-4095.7	-0.3	-8013.4	-91.1	352485.6
	0.0	-4080.3	-0.4	-7919.5	-136.6	348681.7
	0.0	-4128.3	0.0	-8221.9	6.6	360517.5
	0.0	-4112.9	-0.1	-8128.0	-39.0	356713.6
	0.0	-4120.8	0.0	-8171.7	-16.5	358649.9
	0.0	-4105.3	-0.2	-8077.8	-62.0	354845.9
	0.0	-4153.4	0.2	-8380.2	81.2	366681.8

	0.0	-4137.9	0.1	-8286.3	35.6	362877.9
	0.0	-4127.8	0.0	-8172.9	-2.1	360280.4
	0.0	-4112.3	-0.1	-8079.0	-47.6	356476.4
	0.0	-4160.4	0.3	-8381.3	95.6	368312.3
	0.0	-4144.9	0.2	-8287.5	50.1	364508.3
	0.0	-4152.8	0.2	-8331.2	72.6	366444.6
	0.0	-4137.4	0.1	-8237.3	27.0	362640.7
	0.0	-4185.4	0.5	-8539.6	170.2	374476.6
	0.0	-4170.0	0.4	-8445.7	124.7	370672.6
333.	0.0	73.2	-0.3	-8320.7	-2.2	-274661.2
	0.0	80.6	-0.4	-8229.0	-3.4	-274845.1
	0.0	57.5	0.0	-8523.8	0.2	-274264.3
	0.0	64.9	-0.1	-8432.0	-0.9	-274448.2
	0.0	61.2	0.0	-8475.0	-0.4	-274357.5
	0.0	68.6	-0.2	-8383.2	-1.5	-274541.4
	0.0	45.5	0.2	-8678.0	2.1	-273960.6
	0.0	52.9	0.1	-8586.2	1.0	-274144.5
	0.0	58.3	0.0	-8479.0	-0.1	-274319.9
	0.0	65.7	-0.1	-8387.2	-1.3	-274503.8
	0.0	42.6	0.3	-8682.0	2.3	-273923.0
	0.0	50.0	0.1	-8590.2	1.2	-274106.9
	0.0	46.3	0.2	-8633.2	1.8	-274016.3
	0.0	53.7	0.1	-8541.4	0.6	-274200.2
	0.0	30.6	0.5	-8836.2	4.2	-273619.4
665.	0.0	38.0	0.4	-8744.4	3.1	-273803.3
	0.0	4245.4	-0.3	-9335.2	85.6	406040.8
	0.0	4264.5	-0.4	-9237.8	128.4	409916.8
	0.0	4204.8	0.0	-9550.1	-6.0	397790.5
	0.0	4223.9	-0.1	-9452.6	36.7	401666.4
	0.0	4214.3	0.0	-9498.4	15.6	399718.8
	0.0	4233.3	-0.2	-9401.0	58.3	403594.7
	0.0	4173.7	0.2	-9713.3	-76.0	391468.4
	0.0	4192.7	0.1	-9615.9	-33.3	395344.4
	0.0	4207.9	0.0	-9505.7	1.8	398355.5
	0.0	4226.9	-0.1	-9408.2	44.5	402231.5
	0.0	4167.3	0.3	-9720.5	-89.9	390105.1
	0.0	4186.3	0.1	-9623.1	-47.1	393981.1
	0.0	4176.7	0.2	-9668.9	-68.3	392033.4
	0.0	4195.8	0.1	-9571.5	-25.5	395909.4
	0.0	4136.1	0.5	-9883.8	-159.9	383783.1
	0.0	4155.2	0.4	-9786.3	-117.2	387659.0
Asta	49	nod1	48	49		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-2211.7	-1.1	187.2	-151.2	226207.2
	0.0	-2197.9	-1.6	3.9	-226.5	224098.7
	0.0	-2241.1	0.1	580.2	10.1	230692.5
	0.0	-2227.3	-0.5	396.9	-65.1	228584.0
	0.0	-2234.2	-0.2	486.2	-27.9	229644.7
	0.0	-2220.4	-0.7	302.9	-103.2	227536.1
	0.0	-2263.6	1.0	879.2	133.4	234130.0
	0.0	-2249.8	0.4	695.9	58.2	232021.5
	0.0	-2239.3	0.0	547.2	-2.6	230415.3
	0.0	-2225.5	-0.6	363.8	-77.9	228306.8
	0.0	-2268.7	1.1	940.2	158.7	234900.6
	0.0	-2254.9	0.6	756.8	83.4	232792.1
	0.0	-2261.8	0.9	846.1	120.7	233852.8
	0.0	-2248.0	0.3	662.8	45.4	231744.2
	0.0	-2291.2	2.0	1239.1	282.0	238338.1
	0.0	-2277.4	1.5	1055.8	206.7	236229.5
140.	0.0	40.4	-1.1	-391.8	0.2	71808.8
	0.0	56.1	-1.6	-572.5	0.2	71812.5
	0.0	7.2	0.1	-4.4	0.2	71800.8
	0.0	22.8	-0.5	-185.1	0.2	71804.5
	0.0	14.9	-0.2	-97.1	0.2	71802.4
	0.0	30.6	-0.7	-277.8	0.2	71806.1
	0.0	-18.3	1.0	290.3	0.3	71794.4
	0.0	-2.7	0.4	109.6	0.3	71798.1
	0.0	9.3	0.0	-37.2	-0.2	71799.2
	0.0	24.9	-0.6	-217.9	-0.2	71803.0
	0.0	-24.0	1.1	350.2	-0.2	71791.3
	0.0	-8.4	0.6	169.5	-0.2	71795.0
	0.0	-16.2	0.9	257.5	-0.2	71792.9
	0.0	-0.6	0.3	76.8	-0.2	71796.6
	0.0	-49.5	2.0	644.9	-0.2	71784.9
	0.0	-33.9	1.5	464.2	-0.2	71788.6
280.	0.0	2285.5	-1.1	-976.9	151.5	237230.4
	0.0	2299.1	-1.6	-1157.8	226.8	239335.1
	0.0	2256.4	0.1	-589.0	-9.8	232752.8
	0.0	2270.1	-0.5	-770.0	65.5	234857.5
	0.0	2263.2	-0.2	-681.8	28.2	233798.0
	0.0	2276.8	-0.7	-862.8	103.5	235902.7
	0.0	2234.2	1.0	-294.0	-133.1	229320.5
	0.0	2247.8	0.4	-474.9	-57.8	231425.2
	0.0	2258.3	0.0	-622.1	2.3	233034.7
	0.0	2271.9	-0.6	-803.0	77.6	235139.4
	0.0	2229.2	1.1	-234.3	-159.0	228557.1
	0.0	2242.9	0.6	-415.2	-83.7	230661.8
	0.0	2236.0	0.9	-327.1	-121.0	229602.3
	0.0	2249.7	0.3	-508.0	-45.7	231707.0
	0.0	2207.0	2.0	60.8	-282.3	225124.7

	0.0	2220.6	1.5	-120.2	-207.0	227229.4
Asta	50	nod	49	50		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-4175.4	-0.3	8960.3	-86.1	389646.6
	0.0	-4155.2	-0.4	9151.4	-128.8	385721.6
	0.0	-4218.2	0.0	8544.2	5.5	398001.2
	0.0	-4198.1	-0.1	8735.3	-37.2	394076.1
	0.0	-4208.2	-0.1	8645.0	-16.1	396048.2
	0.0	-4188.1	-0.2	8836.1	-58.9	392123.2
	0.0	-4251.0	0.2	8228.9	75.5	404402.7
	0.0	-4230.9	0.1	8420.0	32.7	400477.7
	0.0	-4215.5	0.0	8566.8	-1.2	397461.8
	0.0	-4195.4	-0.1	8757.9	-43.9	393536.8
	0.0	-4258.4	0.3	8150.8	90.4	405816.4
	0.0	-4238.3	0.2	8341.9	47.7	401891.3
	0.0	-4248.3	0.2	8251.5	68.8	403863.4
	0.0	-4228.2	0.1	8442.6	26.0	399938.4
	0.0	-4291.2	0.5	7835.4	160.4	412217.9
	0.0	-4271.1	0.4	8026.5	117.6	408292.9
333.	0.0	-33.5	-0.3	7899.0	2.3	-275579.9
	0.0	-26.8	-0.4	8094.6	3.4	-275289.5
	0.0	-47.5	0.0	7473.1	-0.2	-276204.0
	0.0	-40.9	-0.1	7668.7	1.0	-275913.7
	0.0	-44.3	0.0	7576.3	0.4	-276055.4
	0.0	-37.6	-0.2	7771.8	1.6	-275765.0
	0.0	-58.3	0.2	7150.3	-2.0	-276679.5
	0.0	-51.7	0.1	7345.9	-0.9	-276389.2
	0.0	-46.6	0.0	7495.4	0.0	-276170.3
	0.0	-39.9	-0.1	7691.0	1.2	-275880.0
	0.0	-60.6	0.3	7069.5	-2.5	-276794.5
	0.0	-54.0	0.1	7265.1	-1.3	-276504.1
	0.0	-57.4	0.2	7172.7	-1.8	-276645.8
	0.0	-50.7	0.1	7368.2	-0.7	-276355.5
	0.0	-71.4	0.5	6746.7	-4.3	-277269.9
	0.0	-64.8	0.4	6942.3	-3.2	-276979.6
665.	0.0	4232.8	-0.3	7509.1	91.7	379887.5
	0.0	4243.0	-0.4	7725.8	137.2	382770.7
	0.0	4211.5	0.0	7037.1	-5.9	373817.6
	0.0	4221.7	-0.1	7253.8	39.6	376700.8
	0.0	4216.3	-0.1	7151.4	17.2	375207.7
	0.0	4226.5	-0.2	7368.1	62.7	378090.9
	0.0	4195.0	0.2	6679.5	-80.5	369137.8
	0.0	4205.2	0.1	6896.1	-35.0	372021.0
	0.0	4213.1	0.0	7061.1	1.2	374244.5
	0.0	4223.3	-0.1	7277.7	46.7	377127.8
	0.0	4191.8	0.3	6589.1	-96.4	368174.6
	0.0	4202.0	0.2	6805.8	-50.9	371057.8
	0.0	4196.6	0.2	6703.4	-73.3	369564.7
	0.0	4206.8	0.1	6920.1	-27.8	372448.0
	0.0	4175.3	0.5	6231.4	-170.9	363494.8
	0.0	4185.5	0.4	6448.1	-125.4	366378.1
Asta	51	nod	51	52		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	6176.6	0.6	63183.3	224.8	-346035.8
	0.0	6179.5	0.9	62619.0	336.2	-347384.5
	0.0	6170.5	0.0	64415.1	-15.1	-343184.7
	0.0	6173.4	0.3	63850.7	96.3	-344533.4
	0.0	6171.8	0.1	64098.1	42.4	-343796.6
	0.0	6174.7	0.4	63533.8	153.8	-345145.3
	0.0	6165.7	-0.5	65329.8	-197.4	-340945.6
	0.0	6168.6	-0.2	64765.5	-86.1	-342294.2
	0.0	6169.3	0.0	64261.2	3.4	-342716.7
	0.0	6172.2	0.3	63696.9	114.7	-344065.4
	0.0	6163.3	-0.6	65492.9	-236.5	-339865.6
	0.0	6166.1	-0.3	64928.6	-125.1	-341214.3
	0.0	6164.5	-0.5	65175.9	-179.0	-340477.5
	0.0	6167.4	-0.2	64611.6	-67.6	-341826.2
	0.0	6158.5	-1.1	66407.6	-418.9	-337626.4
	0.0	6161.3	-0.8	65843.3	-307.5	-338975.1
220.	0.0	1704.0	0.6	63970.3	96.5	498382.1
	0.0	1703.7	0.9	63347.3	144.3	497451.0
	0.0	1704.8	0.0	65328.9	-6.5	500366.9
	0.0	1704.5	0.2	64706.0	41.3	499435.8
	0.0	1704.3	0.1	64980.5	18.2	499917.0
	0.0	1704.0	0.4	64357.5	66.0	498985.8
	0.0	1705.1	-0.5	66339.1	-84.8	501901.8
	0.0	1704.8	-0.2	65716.2	-37.0	500970.6
	0.0	1702.4	0.0	65164.6	1.4	500502.9
	0.0	1702.1	0.3	64541.7	49.3	499571.7
	0.0	1703.1	-0.6	66523.3	-101.5	502487.6
	0.0	1702.9	-0.3	65900.4	-53.7	501556.5
	0.0	1702.7	-0.5	66174.9	-76.8	502037.7
	0.0	1702.4	-0.2	65551.9	-29.0	501106.5
	0.0	1703.4	-1.1	67533.5	-179.8	504022.5
	0.0	1703.2	-0.8	66910.6	-132.0	503091.3
440.	0.0	-1983.0	0.6	68907.7	-26.8	464712.9
	0.0	-1991.7	0.8	68185.8	-40.1	462865.3
	0.0	-1964.1	0.0	70481.5	1.7	468723.2
	0.0	-1972.7	0.2	69759.6	-11.6	466875.6

	0.0	-1969.0	0.1	70079.0	-5.1	467715.1
	0.0	-1977.7	0.4	69357.0	-18.3	465867.5
	0.0	-1950.1	-0.5	71652.8	23.5	471725.4
	0.0	-1958.7	-0.2	70930.8	10.2	469877.8
	0.0	-1967.4	0.0	70296.2	-0.4	468292.8
	0.0	-1976.1	0.3	69574.3	-13.7	466445.2
	0.0	-1948.4	-0.6	71870.0	28.1	472303.1
	0.0	-1957.1	-0.3	71148.0	14.9	470455.5
	0.0	-1953.4	-0.4	71467.5	21.4	471295.0
	0.0	-1962.1	-0.2	70745.5	8.1	469447.4
	0.0	-1934.4	-1.0	73041.3	49.9	475305.3
	0.0	-1943.1	-0.8	72319.3	36.6	473457.7
Asta	52	nodl	52	53		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-2674.3	1.8	-27808.2	-45.3	519808.1
	0.0	-2667.1	2.7	-29720.9	-67.8	519476.7
	0.0	-2689.5	-0.1	-23649.4	3.1	520526.8
	0.0	-2682.4	0.8	-25562.1	-19.4	520195.4
	0.0	-2686.0	0.3	-24701.2	-8.4	520345.8
	0.0	-2678.8	1.3	-26613.8	-30.9	520014.4
	0.0	-2701.2	-1.6	-20542.4	40.0	521064.5
	0.0	-2694.1	-0.7	-22455.1	17.5	520733.1
	0.0	-2689.8	0.0	-24066.7	-0.9	520437.4
	0.0	-2682.6	0.9	-25979.4	-23.4	520106.0
	0.0	-2705.0	-1.9	-19907.9	47.6	521156.1
	0.0	-2697.9	-1.0	-21820.6	25.1	520824.7
	0.0	-2701.5	-1.5	-20959.7	36.0	520975.0
	0.0	-2694.3	-0.6	-22872.3	13.5	520643.7
	0.0	-2716.7	-3.4	-16800.9	84.5	521693.8
103.	0.0	-2709.6	-2.5	-18713.6	62.0	521362.4
	0.0	-4576.5	1.8	-24611.2	-234.2	147601.8
	0.0	-4574.2	2.7	-26594.3	-350.3	147761.5
	0.0	-4581.3	-0.1	-20299.3	15.9	147274.0
	0.0	-4579.0	0.8	-22282.4	-100.1	147433.6
	0.0	-4580.3	0.3	-21389.7	-44.5	147330.1
	0.0	-4578.0	1.3	-23372.8	-160.6	147489.8
	0.0	-4585.1	-1.6	-17077.8	205.6	147002.2
	0.0	-4582.8	-0.7	-19060.9	89.6	147161.9
	0.0	-4582.5	0.0	-20732.1	-3.0	147100.4
	0.0	-4580.2	0.9	-22715.2	-119.0	147260.1
	0.0	-4587.4	-1.9	-16420.2	247.2	146772.5
	0.0	-4585.1	-1.0	-18403.3	131.1	146932.2
	0.0	-4586.4	-1.5	-17510.6	186.7	146828.7
	0.0	-4584.1	-0.6	-19493.7	70.7	146988.3
	0.0	-4591.2	-3.4	-13198.7	436.9	146500.8
	0.0	-4588.9	-2.5	-15181.8	320.8	146660.5
207.	0.0	-6814.2	1.8	-21776.0	-423.7	-438280.4
	0.0	-6817.0	2.7	-23858.7	-633.6	-438147.8
	0.0	-6807.6	-0.1	-17247.6	28.8	-438534.7
	0.0	-6810.5	0.8	-19330.3	-181.1	-438402.1
	0.0	-6809.5	0.4	-18392.6	-80.7	-438518.9
	0.0	-6812.4	1.3	-20475.4	-290.7	-438386.3
	0.0	-6803.0	-1.6	-13864.3	371.8	-438773.2
	0.0	-6805.9	-0.7	-15947.0	161.8	-438640.6
	0.0	-6809.8	0.0	-17702.2	-5.1	-438908.0
	0.0	-6812.7	0.9	-19785.0	-215.0	-438775.4
	0.0	-6803.3	-1.9	-13173.9	447.4	-439162.4
	0.0	-6806.2	-1.0	-15256.6	237.5	-439029.8
	0.0	-6805.2	-1.5	-14318.9	337.9	-439146.5
	0.0	-6808.1	-0.6	-16401.6	128.0	-439013.9
	0.0	-6798.6	-3.4	-9790.5	790.4	-439400.8
	0.0	-6801.5	-2.5	-11873.2	580.5	-439268.2
Asta	53	nodl	53	54		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4388.1	2.9	-29328.3	471.6	-497469.1
	0.0	4409.5	4.3	-28392.9	704.9	-500773.4
	0.0	4341.9	-0.2	-31344.0	-31.7	-490349.6
	0.0	4363.3	1.2	-30408.5	201.7	-493653.9
	0.0	4353.1	0.6	-30852.0	90.3	-492073.2
	0.0	4374.5	2.0	-29916.6	323.7	-495377.5
	0.0	4306.9	-2.5	-32867.7	-413.0	-484953.7
	0.0	4328.4	-1.1	-31932.3	-179.6	-488258.1
	0.0	4344.3	0.0	-31170.5	5.4	-490692.3
	0.0	4365.7	1.5	-30235.0	238.8	-493996.7
	0.0	4298.1	-3.0	-33186.1	-497.8	-483572.9
	0.0	4319.5	-1.6	-32250.7	-264.5	-486877.2
	0.0	4309.4	-2.3	-32694.2	-375.8	-485296.5
	0.0	4330.8	-0.9	-31758.8	-142.5	-488600.8
	0.0	4263.2	-5.4	-34709.9	-879.1	-478177.0
	0.0	4284.6	-3.9	-33774.4	-645.7	-481481.3
162.	0.0	382.9	2.9	-25813.3	7.4	-105507.1
	0.0	396.0	4.3	-25043.0	11.4	-106031.6
	0.0	354.7	-0.2	-27469.8	-0.8	-104374.8
	0.0	367.8	1.2	-26699.5	3.1	-104899.3
	0.0	361.4	0.6	-27068.9	1.0	-104654.2
	0.0	374.5	2.0	-26298.5	4.9	-105178.7
	0.0	333.2	-2.5	-28725.4	-7.3	-103521.9
	0.0	346.3	-1.1	-27955.1	-3.4	-104046.4
	0.0	355.5	0.0	-27333.0	0.3	-104461.3

	0.0	368.6	1.4	-26562.7	4.3	-104985.8
	0.0	327.2	-3.0	-28989.5	-7.9	-103329.0
	0.0	340.4	-1.6	-28219.2	-4.0	-103853.5
	0.0	334.0	-2.3	-28588.6	-6.1	-103608.4
	0.0	347.1	-0.9	-27818.3	-2.2	-104133.0
	0.0	305.7	-5.3	-30245.1	-14.4	-102476.1
	0.0	318.9	-3.9	-29474.8	-10.5	-103000.7
323.	0.0	-3957.1	2.9	-23216.3	-456.6	-391557.1
	0.0	-3950.7	4.3	-22583.7	-682.1	-390525.0
	0.0	-3970.7	-0.2	-24572.6	30.1	-393753.5
	0.0	-3964.3	1.2	-23939.9	-195.4	-392721.4
	0.0	-3967.7	0.6	-24248.3	-88.4	-393257.8
	0.0	-3961.3	2.0	-23615.7	-313.9	-392225.6
	0.0	-3981.3	-2.5	-25604.6	398.3	-395454.2
	0.0	-3974.9	-1.1	-24971.9	172.8	-394422.1
	0.0	-3971.3	0.0	-24467.6	-4.7	-393830.7
	0.0	-3964.9	1.5	-23834.9	-230.2	-392798.6
	0.0	-3984.9	-3.0	-25823.9	481.9	-396027.2
	0.0	-3978.5	-1.6	-25191.2	256.4	-394995.0
	0.0	-3981.9	-2.3	-25499.6	363.5	-395531.4
	0.0	-3975.4	-0.9	-24867.0	138.0	-394499.3
	0.0	-3995.5	-5.4	-26855.9	850.2	-397727.8
	0.0	-3989.0	-3.9	-26223.2	624.7	-396695.7
Asta	54	nod	54	55		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4520.4	2.8	-7106.5	451.4	-354487.5
	0.0	4541.6	4.2	-5335.6	673.5	-357669.2
	0.0	4474.8	-0.2	-10933.6	-27.5	-347638.1
	0.0	4495.9	1.2	-9162.7	194.6	-350819.8
	0.0	4486.0	0.6	-9986.2	88.8	-349290.7
	0.0	4507.1	1.9	-8215.3	310.9	-352472.4
	0.0	4440.4	-2.4	-13813.3	-390.1	-342441.3
	0.0	4461.5	-1.0	-12042.4	-168.0	-345623.0
	0.0	4477.3	0.0	-10589.8	2.9	-347925.5
	0.0	4498.4	1.4	-8819.0	225.0	-351107.2
	0.0	4431.6	-3.0	-14416.9	-476.0	-341076.1
	0.0	4452.8	-1.6	-12646.1	-253.9	-344257.8
	0.0	4442.8	-2.2	-13469.5	-359.6	-342728.7
	0.0	4463.9	-0.9	-11698.7	-137.5	-345910.4
	0.0	4397.2	-5.2	-17296.6	-838.5	-335879.3
	0.0	4418.3	-3.8	-15525.8	-616.4	-339061.0
162.	0.0	59.1	2.8	-5058.4	-2.8	16250.9
	0.0	75.4	4.2	-3381.7	-3.3	16054.8
	0.0	24.1	-0.2	-8679.1	-1.7	16661.2
	0.0	40.4	1.2	-7002.4	-2.2	16465.1
	0.0	32.6	0.6	-7785.4	-2.0	16573.0
	0.0	48.8	1.9	-6108.7	-2.5	16376.9
	0.0	-2.5	-2.4	-11406.0	-0.9	16983.3
	0.0	13.8	-1.0	-9729.3	-1.4	16787.2
	0.0	25.6	0.0	-8359.0	1.4	16683.5
	0.0	41.9	1.4	-6682.3	0.9	16487.4
	0.0	-9.4	-3.0	-11979.7	2.5	17093.8
	0.0	6.8	-1.6	-10303.0	2.0	16897.7
	0.0	-1.0	-2.2	-11086.0	2.2	17005.6
	0.0	15.3	-0.9	-9409.3	1.7	16809.5
	0.0	-36.0	-5.2	-14706.6	3.3	17415.9
	0.0	-19.7	-3.8	-13029.9	2.8	17219.8
323.	0.0	-4383.3	2.8	-3190.2	-455.8	-334327.9
	0.0	-4368.8	4.2	-1548.1	-678.9	-332075.8
	0.0	-4414.5	-0.2	-6733.1	24.0	-339178.7
	0.0	-4399.9	1.2	-5091.0	-199.1	-336926.5
	0.0	-4407.1	0.6	-5861.4	-91.7	-338006.4
	0.0	-4392.5	1.9	-4219.3	-314.8	-335754.2
	0.0	-4438.2	-2.4	-9404.3	388.2	-342857.1
	0.0	-4423.7	-1.0	-7762.2	165.1	-340605.0
	0.0	-4413.4	0.0	-6425.5	0.0	-338957.3
	0.0	-4398.9	1.4	-4783.3	-223.1	-336705.1
	0.0	-4444.6	-3.0	-9968.4	479.9	-343808.0
	0.0	-4430.0	-1.6	-8326.3	256.8	-341555.9
	0.0	-4437.2	-2.2	-9096.7	364.1	-342635.8
	0.0	-4422.6	-0.9	-7454.5	141.0	-340383.6
	0.0	-4468.3	-5.2	-12639.6	844.0	-347486.5
	0.0	-4453.8	-3.8	-10997.5	620.9	-345234.3
Asta	55	nod	55	56		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4380.0	2.8	28272.9	458.2	-347930.2
	0.0	4394.4	4.2	29894.2	682.7	-350020.3
	0.0	4349.0	-0.2	24793.5	-23.6	-343460.8
	0.0	4363.4	1.2	26414.7	200.9	-345551.0
	0.0	4356.4	0.6	25634.9	91.6	-344513.2
	0.0	4370.8	2.0	27256.1	316.1	-346603.3
	0.0	4325.4	-2.4	22155.4	-390.2	-340043.9
	0.0	4339.8	-1.0	23776.6	-165.7	-342134.0
	0.0	4350.1	0.0	25063.2	0.1	-343574.4
	0.0	4364.5	1.4	26684.5	224.6	-345664.5
	0.0	4319.1	-3.0	21583.7	-481.7	-339105.0
	0.0	4333.5	-1.6	23205.0	-257.2	-341195.2
	0.0	4326.5	-2.3	22425.1	-366.5	-340157.4
	0.0	4340.9	-0.9	24046.4	-142.0	-342247.5

	0.0	4295.5	-5.3	18945.6	-848.3	-335688.1
	0.0	4309.9	-3.9	20566.9	-623.8	-337778.2
162.	0.0	77.8	2.8	30596.1	0.5	9683.4
	0.0	93.1	4.2	32241.9	-0.4	9959.1
	0.0	45.1	-0.2	27067.2	2.2	9086.0
	0.0	60.4	1.2	28712.9	1.3	9361.8
	0.0	52.8	0.6	27917.7	2.2	9236.6
	0.0	68.1	1.9	29563.5	1.3	9512.4
	0.0	20.1	-2.4	24388.7	4.0	8639.3
	0.0	35.4	-1.0	26034.5	3.0	8915.0
	0.0	46.2	0.0	27335.0	-2.5	9146.4
	0.0	61.5	1.4	28980.8	-3.5	9422.2
	0.0	13.5	-3.0	23806.0	-0.8	8549.1
	0.0	28.8	-1.6	25451.8	-1.7	8824.8
	0.0	21.2	-2.3	24656.5	-0.8	8699.7
	0.0	36.5	-0.9	26302.3	-1.7	8975.4
	0.0	-11.5	-5.3	21127.6	0.9	8102.3
	0.0	3.8	-3.9	22773.3	0.0	8378.1
323.	0.0	-3953.7	2.8	34008.0	-458.7	-308140.0
	0.0	-3934.6	4.2	35736.9	-685.2	-305117.1
	0.0	-3994.4	-0.2	30303.9	26.1	-314599.4
	0.0	-3975.3	1.2	32032.8	-200.3	-311576.6
	0.0	-3984.9	0.6	31193.9	-88.6	-313071.4
	0.0	-3965.8	2.0	32922.7	-315.1	-310048.5
	0.0	-4025.6	-2.4	27489.8	396.2	-319530.8
	0.0	-4006.5	-1.0	29218.7	169.8	-316508.0
	0.0	-3992.9	0.0	30579.5	-3.2	-314331.0
	0.0	-3973.8	1.4	32308.4	-229.6	-311308.1
	0.0	-4033.6	-3.0	26875.4	481.6	-320790.4
	0.0	-4014.5	-1.6	28604.3	255.2	-317767.6
	0.0	-4024.1	-2.3	27765.3	366.9	-319262.3
	0.0	-4005.0	-0.9	29494.2	140.5	-316239.5
	0.0	-4064.8	-5.3	24061.3	851.7	-325721.8
	0.0	-4045.7	-3.9	25790.1	625.3	-322698.9
Asta	56	nod	56	49		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	5041.7	2.7	84239.5	445.2	-346100.4
	0.0	5045.6	4.0	84834.1	665.9	-347202.8
	0.0	5033.1	-0.2	82954.8	-26.9	-343727.0
	0.0	5037.0	1.2	83549.3	193.8	-344829.4
	0.0	5035.2	0.5	83270.4	84.3	-344290.6
	0.0	5039.1	1.8	83864.9	305.0	-345393.0
	0.0	5026.6	-2.3	81985.6	-387.8	-341917.2
	0.0	5030.5	-1.0	82580.2	-167.2	-343019.6
	0.0	5033.1	0.0	83087.2	4.9	-343790.8
	0.0	5037.0	1.4	83681.8	225.6	-344893.2
	0.0	5024.5	-2.8	81802.4	-467.2	-341417.5
	0.0	5028.4	-1.5	82397.0	-246.5	-342519.9
	0.0	5026.6	-2.1	82118.0	-356.0	-341981.1
	0.0	5030.5	-0.8	82712.6	-135.3	-343083.5
	0.0	5018.0	-5.0	80833.3	-828.1	-339607.7
	0.0	5021.9	-3.6	81427.8	-607.5	-340710.1
162.	0.0	1408.4	2.7	89791.0	13.9	168915.3
	0.0	1417.8	4.0	90510.7	20.6	168873.4
	0.0	1388.1	-0.2	88240.9	-0.4	169001.5
	0.0	1397.5	1.2	88960.6	6.3	168959.6
	0.0	1392.9	0.5	88617.7	2.9	168987.2
	0.0	1402.3	1.8	89337.4	9.7	168945.3
	0.0	1372.6	-2.3	87067.6	-11.4	169073.4
	0.0	1382.1	-1.0	87787.3	-4.6	169031.5
	0.0	1388.7	0.0	88388.4	-0.2	168988.3
	0.0	1398.2	1.4	89108.1	6.5	168946.4
	0.0	1368.4	-2.8	86838.4	-14.5	169074.6
	0.0	1377.9	-1.5	87558.0	-7.8	169032.7
	0.0	1373.3	-2.1	87215.1	-11.2	169060.2
	0.0	1382.7	-0.8	87934.8	-4.4	169018.3
	0.0	1353.0	-5.0	85665.0	-25.5	169146.5
	0.0	1362.4	-3.6	86384.7	-18.7	169104.6
323.	0.0	-1777.7	2.7	98535.5	-417.3	134000.5
	0.0	-1761.0	4.0	99405.9	-624.3	136053.0
	0.0	-1813.4	-0.2	96665.0	26.0	129603.4
	0.0	-1796.7	1.2	97535.4	-181.0	131655.8
	0.0	-1805.0	0.5	97116.3	-78.5	130649.8
	0.0	-1788.3	1.8	97986.7	-285.5	132702.3
	0.0	-1840.7	-2.3	95245.8	364.8	126252.6
	0.0	-1824.0	-1.0	96116.2	157.8	128305.1
	0.0	-1811.8	0.0	96832.8	-5.4	129765.8
	0.0	-1795.1	1.4	97703.2	-212.4	131818.2
	0.0	-1847.5	-2.8	94962.3	438.0	125368.6
	0.0	-1830.8	-1.5	95832.7	230.9	127421.1
	0.0	-1839.1	-2.1	95413.6	333.4	126415.0
	0.0	-1822.4	-0.8	96284.0	126.4	128467.5
	0.0	-1874.8	-5.0	93543.1	776.7	122017.9
	0.0	-1858.1	-3.6	94413.5	569.7	124070.3
Asta	57	nod	49	57		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2071.7	2.5	-107367.9	415.7	103709.8
	0.0	2085.2	3.8	-106322.0	621.9	101674.7
	0.0	2042.7	-0.2	-109607.4	-26.5	108067.8

173.	0.0	2056.2	1.1	-108561.4	179.7	106032.7
	0.0	2049.6	0.5	-109077.5	77.8	107039.7
	0.0	2063.1	1.7	-108031.5	284.0	105004.6
	0.0	2020.6	-2.2	-111316.9	-364.4	111397.7
	0.0	2034.1	-1.0	-110271.0	-158.2	109362.6
	0.0	2043.7	0.0	-109427.0	6.0	107900.9
	0.0	2057.3	1.3	-108381.0	212.3	105865.8
	0.0	2014.8	-2.7	-111666.4	-436.2	112258.9
	0.0	2028.3	-1.4	-110620.5	-229.9	110223.8
	0.0	2021.6	-2.0	-111136.6	-331.8	111230.8
	0.0	2035.1	-0.8	-110090.6	-125.6	109195.7
	0.0	1992.6	-4.7	-113376.0	-774.0	115588.8
	0.0	2006.2	-3.5	-112330.0	-567.8	113553.7
	0.0	-1111.8	2.5	-98318.6	-19.9	186084.8
	0.0	-1089.0	3.8	-97073.0	-29.7	187152.2
	0.0	-1160.6	-0.2	-100983.2	1.4	183801.3
	0.0	-1137.8	1.1	-99737.6	-8.4	184868.7
	0.0	-1149.1	0.5	-100353.9	-3.6	184342.2
	0.0	-1126.3	1.7	-99108.3	-13.4	185409.6
	0.0	-1197.9	-2.2	-103018.6	17.7	182058.7
	0.0	-1175.1	-1.0	-101772.9	7.9	183126.1
	0.0	-1158.3	0.0	-100774.1	-0.5	183915.3
	0.0	-1135.5	1.3	-99528.5	-10.3	184982.7
	0.0	-1207.2	-2.6	-103438.8	20.8	181631.8
	0.0	-1184.3	-1.4	-102193.2	11.0	182699.2
	0.0	-1195.6	-2.0	-102809.5	15.7	182172.6
	0.0	-1172.8	-0.8	-101563.8	5.9	183240.1
	0.0	-1244.5	-4.7	-105474.1	37.0	179889.1
	0.0	-1221.6	-3.4	-104228.5	27.2	180956.5
	345.	-4358.9	2.5	-93240.8	-455.8	-284217.8
	0.0	-4325.0	3.8	-91745.2	-681.8	-278261.2
	0.0	-4431.3	-0.2	-96438.3	29.4	-296951.1
	0.0	-4397.4	1.1	-94942.7	-196.7	-290994.6
	0.0	-4414.3	0.5	-95684.1	-85.0	-293948.0
	0.0	-4380.4	1.7	-94188.5	-311.1	-287991.4
	0.0	-4486.7	-2.2	-98881.6	400.1	-306681.3
	0.0	-4452.8	-1.0	-97386.0	174.0	-300724.8
	0.0	-4427.5	0.0	-96192.0	-7.1	-296311.7
	0.0	-4393.6	1.3	-94696.4	-233.1	-290355.2
	0.0	-4499.9	-2.7	-99389.6	478.1	-309045.1
	0.0	-4466.0	-1.4	-97894.0	252.0	-303088.5
	0.0	-4482.9	-2.0	-98635.3	363.6	-306041.9
	0.0	-4449.0	-0.8	-97139.7	137.6	-300085.4
	0.0	-4555.3	-4.7	-101832.8	848.8	-318775.3
	0.0	-4521.4	-3.5	-100337.2	622.7	-312818.8
Asta PROGR. 0.	58	nod	57	58	MY	MZ
	NORM	TY	TZ	TORS	MY	MZ
	0.0	4116.4	2.3	-44269.4	435.7	-288255.4
	0.0	4108.3	3.5	-47376.0	651.6	-285460.7
	0.0	4133.5	-0.1	-37642.9	-27.9	-294211.9
	0.0	4125.4	1.0	-40749.4	188.0	-291417.3
	0.0	4129.6	0.4	-39197.3	81.4	-292815.6
	0.0	4121.5	1.6	-42303.8	297.3	-290020.9
	0.0	4146.7	-2.0	-32570.7	-382.2	-298772.1
	0.0	4138.6	-0.9	-35677.3	-166.3	-295977.5
	0.0	4131.0	0.0	-38115.9	6.9	-293739.4
	0.0	4122.9	1.2	-41222.5	222.8	-290944.8
	0.0	4148.2	-2.4	-31489.4	-456.7	-299696.0
	0.0	4140.1	-1.3	-34595.9	-240.8	-296901.4
	0.0	4144.2	-1.9	-33043.8	-347.4	-298299.6
	0.0	4136.1	-0.7	-36150.3	-131.5	-295505.0
	0.0	4161.4	-4.3	-26417.2	-810.9	-304256.2
	0.0	4153.2	-3.2	-29523.8	-595.1	-301461.6
	170.	871.0	2.3	-42047.5	41.6	135409.9
	0.0	871.3	3.5	-44939.7	62.4	137603.7
	0.0	870.3	-0.1	-35878.1	-3.0	130705.8
	0.0	870.6	1.0	-38770.2	17.8	132899.6
	0.0	870.6	0.4	-37325.2	7.5	131820.9
	0.0	870.8	1.6	-40217.4	28.3	134014.7
	0.0	869.9	-2.0	-31155.8	-37.1	127116.8
	0.0	870.1	-0.9	-34048.0	-16.3	129310.6
	0.0	868.8	0.0	-36319.0	0.7	130861.4
	0.0	869.1	1.2	-39211.1	21.5	133055.2
	0.0	868.1	-2.4	-30149.5	-43.9	126157.3
	0.0	868.4	-1.3	-33041.7	-23.1	128351.1
	0.0	868.4	-1.8	-31596.7	-33.3	127272.5
	0.0	868.7	-0.7	-34488.8	-12.6	129466.2
	0.0	867.7	-4.3	-25427.2	-78.0	122568.4
	0.0	867.9	-3.2	-28319.4	-57.2	124762.1
	340.	-2368.9	2.3	-41476.2	-351.7	8677.0
	0.0	-2367.0	3.5	-44267.5	-525.6	11175.2
	0.0	-2373.4	-0.1	-35521.7	21.9	3295.3
	0.0	-2371.4	1.0	-38313.0	-152.0	5793.5
	0.0	-2372.3	0.4	-36918.4	-66.2	4581.0
	0.0	-2370.3	1.6	-39709.7	-240.1	7079.2
	0.0	-2376.7	-2.0	-30963.9	307.4	-800.7
	0.0	-2374.7	-0.9	-33755.2	133.4	1697.5
	0.0	-2374.0	0.0	-35947.7	-5.4	3298.4
	0.0	-2372.0	1.2	-38739.1	-179.3	5796.6

	0.0	-2378.4	-2.4	-29993.2	368.1	-2083.3
	0.0	-2376.4	-1.3	-32784.5	194.2	414.9
	0.0	-2377.3	-1.8	-31389.9	280.1	-797.7
	0.0	-2375.3	-0.7	-34181.3	106.1	1700.6
	0.0	-2381.8	-4.3	-25435.4	653.6	-6179.3
	0.0	-2379.8	-3.2	-28226.7	479.7	-3681.1
Asta	59	nod	60	59		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4178.9	2.3	31523.0	433.7	-301114.8
	0.0	4201.1	3.5	28370.6	649.7	-304600.2
	0.0	4131.5	-0.2	38247.9	-29.9	-293684.8
	0.0	4153.7	1.0	35095.5	186.2	-297170.2
	0.0	4142.6	0.4	36670.3	79.2	-295430.5
	0.0	4164.9	1.6	33517.9	295.3	-298915.9
	0.0	4095.2	-2.0	43395.2	-384.3	-288000.5
	0.0	4117.5	-0.9	40242.8	-168.3	-291485.9
	0.0	4133.3	0.0	37771.3	8.8	-294174.4
	0.0	4155.6	1.2	34618.9	224.8	-297659.8
	0.0	4085.9	-2.4	44496.2	-454.8	-286744.4
	0.0	4108.1	-1.3	41343.8	-238.7	-290229.8
	0.0	4097.0	-1.8	42918.6	-345.7	-288490.1
	0.0	4119.3	-0.7	39766.2	-129.7	-291975.5
	0.0	4049.6	-4.3	49643.5	-809.3	-281060.1
	0.0	4071.9	-3.2	46491.1	-593.2	-284545.5
170.	0.0	898.3	2.3	30165.5	41.7	129943.1
	0.0	911.4	3.4	27224.4	62.5	129427.0
	0.0	870.3	-0.2	36439.5	-2.9	131055.6
	0.0	883.4	1.0	33498.5	17.9	130539.4
	0.0	876.9	0.4	34967.7	7.6	130800.0
	0.0	890.0	1.6	32026.7	28.4	130283.9
	0.0	848.9	-2.0	41241.8	-37.0	131912.5
	0.0	862.0	-0.9	38300.8	-16.2	131396.3
	0.0	870.7	0.0	35995.2	1.0	130777.4
	0.0	883.9	1.2	33054.1	21.8	130261.2
	0.0	842.7	-2.4	42269.2	-43.6	131889.9
	0.0	855.9	-1.3	39328.2	-22.9	131373.7
	0.0	849.3	-1.8	40797.4	-33.1	131634.3
	0.0	862.5	-0.7	37856.4	-12.3	131118.2
	0.0	821.3	-4.3	47071.5	-77.8	132746.8
	0.0	834.5	-3.1	44130.5	-57.0	132230.6
340.	0.0	-2355.6	2.3	29992.1	-349.5	6343.4
	0.0	-2347.7	3.5	27147.0	-523.6	7561.1
	0.0	-2372.4	-0.2	36061.6	24.0	3773.7
	0.0	-2364.5	1.0	33216.6	-150.1	4991.4
	0.0	-2368.4	0.4	34637.7	-63.9	4389.1
	0.0	-2360.5	1.6	31792.7	-238.0	5606.8
	0.0	-2385.2	-2.0	40707.3	309.6	1819.5
	0.0	-2377.3	-0.9	37862.3	135.5	3037.2
	0.0	-2372.4	0.0	35632.0	-6.8	3476.7
	0.0	-2364.4	1.2	32787.0	-180.9	4694.4
	0.0	-2389.1	-2.4	41701.6	366.7	907.1
	0.0	-2381.2	-1.3	38856.5	192.6	2124.8
	0.0	-2385.1	-1.8	40277.7	278.8	1522.5
	0.0	-2377.2	-0.7	37432.6	104.7	2740.2
	0.0	-2401.9	-4.3	46347.3	652.3	-1047.1
	0.0	-2394.0	-3.2	43502.2	478.2	170.6
Asta	60	nod	48	60		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2043.5	2.5	110781.4	414.0	108163.3
	0.0	2043.6	3.8	111806.7	620.2	108261.3
	0.0	2043.3	-0.2	108585.3	-28.4	107944.3
	0.0	2043.4	1.1	109610.7	177.9	108042.4
	0.0	2043.4	0.5	109104.1	75.9	107986.5
	0.0	2043.6	1.7	110129.5	282.1	108084.6
	0.0	2043.2	-2.2	106908.0	-366.5	107767.6
	0.0	2043.3	-1.0	107933.4	-160.2	107865.6
	0.0	2041.7	0.0	108766.7	8.0	108008.8
	0.0	2041.8	1.3	109792.1	214.2	108106.8
	0.0	2041.4	-2.6	106570.6	-434.4	107789.9
	0.0	2041.6	-1.4	107596.0	-228.1	107887.9
	0.0	2041.6	-2.0	107089.4	-330.1	107832.0
	0.0	2041.7	-0.8	108114.8	-123.9	107930.1
	0.0	2041.4	-4.7	104893.3	-772.5	107613.1
	0.0	2041.5	-3.4	105918.7	-566.2	107711.2
173.	0.0	-1176.6	2.5	102587.1	-19.8	182566.1
	0.0	-1185.5	3.8	103811.3	-29.7	181935.3
	0.0	-1157.6	-0.2	99967.4	1.4	183914.0
	0.0	-1166.5	1.1	101191.6	-8.4	183283.2
	0.0	-1162.0	0.5	100585.3	-3.5	183596.2
	0.0	-1170.9	1.7	101809.6	-13.4	182965.4
	0.0	-1143.0	-2.2	97965.6	17.7	184944.0
	0.0	-1151.9	-1.0	99189.8	7.8	184313.2
	0.0	-1160.3	0.0	100177.6	-0.6	183752.8
	0.0	-1169.2	1.3	101401.8	-10.4	183122.0
	0.0	-1141.3	-2.6	97557.9	20.6	185100.6
	0.0	-1150.2	-1.4	98782.1	10.8	184469.8
	0.0	-1145.7	-2.0	98175.8	15.7	184782.9
	0.0	-1154.6	-0.8	99400.1	5.8	184152.1
	0.0	-1126.7	-4.7	95556.1	36.9	186130.7

	0.0	-1135.6	-3.4	96780.3	27.1	185499.9
345.	0.0	-4466.9	2.5	98536.8	-454.0	-302612.8
	0.0	-4486.2	3.8	100009.4	-680.1	-305669.0
	0.0	-4425.6	-0.2	95387.6	31.2	-296082.1
	0.0	-4444.9	1.1	96860.2	-194.9	-299138.3
	0.0	-4435.2	0.5	96129.6	-83.0	-297606.2
	0.0	-4454.5	1.7	97602.3	-309.1	-300662.4
	0.0	-4393.9	-2.2	92980.5	402.2	-291075.5
	0.0	-4413.3	-1.0	94453.1	176.1	-294131.7
	0.0	-4430.1	0.0	95635.1	-9.2	-296862.9
	0.0	-4449.4	1.3	97107.7	-235.3	-299919.1
	0.0	-4388.8	-2.6	92485.9	476.1	-290332.2
	0.0	-4408.1	-1.4	93958.5	249.9	-293388.4
	0.0	-4398.4	-2.0	93228.0	361.8	-291856.3
	0.0	-4417.7	-0.8	94700.6	135.7	-294912.5
	0.0	-4357.1	-4.7	90078.8	847.0	-285325.6
	0.0	-4376.4	-3.4	91551.4	620.9	-288381.8
Asta	61	nod1	61	48		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	5030.8	2.7	-86388.1	444.3	-338205.4
	0.0	5038.4	4.0	-85757.6	665.1	-339031.9
	0.0	5014.8	-0.2	-87749.6	-27.6	-336445.2
	0.0	5022.4	1.2	-87119.0	193.3	-337271.7
	0.0	5018.5	0.5	-87418.5	82.8	-336867.5
	0.0	5026.1	1.8	-86788.0	303.7	-337694.1
	0.0	5002.6	-2.3	-88780.0	-389.0	-335107.3
	0.0	5010.1	-1.0	-88149.4	-168.2	-335933.9
	0.0	5015.2	0.0	-87625.4	6.1	-336476.8
	0.0	5022.7	1.4	-86994.8	226.9	-337303.4
	0.0	4999.2	-2.8	-88986.8	-465.7	-334716.7
	0.0	5006.8	-1.5	-88356.2	-244.9	-335543.2
	0.0	5002.9	-2.1	-88655.8	-355.3	-335139.0
	0.0	5010.5	-0.8	-88025.2	-134.5	-335965.6
	0.0	4986.9	-5.0	-90017.2	-827.2	-333378.8
162.	0.0	4994.5	-3.6	-89386.6	-606.3	-334205.4
	0.0	1373.3	2.7	-91146.9	14.1	173112.9
	0.0	1375.3	4.0	-90393.3	21.0	173079.7
	0.0	1369.1	-0.2	-92769.1	0.0	173192.7
	0.0	1371.1	1.2	-92015.5	6.8	173159.5
	0.0	1370.1	0.5	-92377.8	3.0	173163.4
	0.0	1372.1	1.8	-91624.2	9.9	173130.2
	0.0	1365.8	-2.3	-94000.0	-11.1	173243.2
	0.0	1367.8	-1.0	-93246.4	-4.3	173210.0
	0.0	1368.6	0.0	-92629.4	-0.5	173160.9
	0.0	1370.6	1.4	-91875.8	6.4	173127.8
	0.0	1364.3	-2.8	-94251.7	-14.6	173240.8
	0.0	1366.3	-1.5	-93498.1	-7.8	173207.6
	0.0	1365.4	-2.1	-93860.3	-11.5	173211.4
	0.0	1367.4	-0.8	-93106.7	-4.7	173178.3
	0.0	1361.1	-5.0	-95482.6	-25.7	173291.3
	0.0	1363.1	-3.6	-94729.0	-18.8	173258.1
323.	0.0	-1840.7	2.7	-99146.8	-415.9	130332.4
	0.0	-1845.6	4.0	-98243.4	-622.9	130083.5
	0.0	-1830.2	-0.2	-101087.6	27.5	130875.3
	0.0	-1835.1	1.2	-100184.2	-179.5	130626.4
	0.0	-1832.7	0.5	-100622.1	-76.7	130743.1
	0.0	-1837.6	1.8	-99718.6	-283.8	130494.2
	0.0	-1822.2	-2.3	-102562.8	366.6	131286.1
	0.0	-1827.1	-1.0	-101659.4	159.6	131037.1
	0.0	-1831.7	0.0	-100927.4	-7.0	130708.1
	0.0	-1836.6	1.4	-100024.0	-214.1	130459.1
	0.0	-1821.3	-2.8	-102868.2	436.3	131251.0
	0.0	-1826.2	-1.5	-101964.8	229.3	131002.1
	0.0	-1823.7	-2.1	-102402.7	332.1	131118.8
	0.0	-1828.6	-0.8	-101499.2	125.0	130869.9
	0.0	-1813.2	-5.0	-104343.4	775.5	131661.7
	0.0	-1818.1	-3.6	-103440.0	568.4	131412.8
Asta	62	nod1	62	61		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4288.2	2.8	-40327.3	455.5	-302812.9
	0.0	4285.1	4.2	-38609.3	680.0	-302689.0
	0.0	4294.8	-0.2	-44005.7	-25.6	-303065.1
	0.0	4291.8	1.2	-42287.8	198.9	-302941.2
	0.0	4293.1	0.5	-43123.2	89.0	-303011.6
	0.0	4290.1	1.9	-41405.3	313.4	-302887.7
	0.0	4299.7	-2.4	-46801.7	-392.1	-303263.7
	0.0	4296.7	-1.0	-45083.8	-167.6	-303139.8
	0.0	4293.8	0.0	-43730.1	2.3	-303062.6
	0.0	4290.8	1.4	-42012.1	226.7	-302938.7
	0.0	4300.4	-3.0	-47408.6	-478.8	-303314.7
	0.0	4297.4	-1.6	-45690.6	-254.3	-303190.8
	0.0	4298.7	-2.3	-46526.1	-364.3	-303261.3
	0.0	4295.7	-0.9	-44808.1	-139.8	-303137.4
	0.0	4305.4	-5.2	-50204.6	-845.3	-303513.4
	0.0	4302.3	-3.9	-48486.6	-620.9	-303389.5
162.	0.0	-60.6	2.8	-41263.9	-0.1	35692.7
	0.0	-64.4	4.2	-39528.9	-1.2	35303.4
	0.0	-52.5	-0.2	-44976.3	1.8	36544.7
	0.0	-56.3	1.2	-43241.3	0.8	36155.5

	0.0	-54.4	0.5	-44087.9	1.9	36326.5
	0.0	-58.2	1.9	-42352.8	0.8	35937.3
	0.0	-46.3	-2.4	-47800.3	3.8	37178.6
	0.0	-50.1	-1.0	-46065.3	2.7	36789.4
	0.0	-53.4	0.0	-44702.3	-2.3	36406.5
	0.0	-57.2	1.4	-42967.3	-3.3	36017.2
	0.0	-45.3	-3.0	-48414.7	-0.3	37258.6
	0.0	-49.1	-1.6	-46679.7	-1.4	36869.3
	0.0	-47.2	-2.3	-47526.2	-0.3	37040.4
	0.0	-51.0	-0.9	-45791.2	-1.4	36651.1
	0.0	-39.1	-5.2	-51238.7	1.6	37892.4
	0.0	-42.9	-3.8	-49503.7	0.6	37503.2
323.	0.0	-4119.3	2.8	-43668.8	-457.4	-306795.5
	0.0	-4126.6	4.2	-41855.0	-683.9	-308055.0
	0.0	-4103.6	-0.2	-47547.3	26.9	-304096.8
	0.0	-4111.0	1.2	-45733.5	-199.7	-305356.3
	0.0	-4107.2	0.5	-46621.2	-86.9	-304742.0
	0.0	-4114.6	1.9	-44807.4	-313.5	-306001.5
	0.0	-4091.6	-2.4	-50499.7	397.4	-302043.2
	0.0	-4099.0	-1.0	-48685.9	170.8	-303302.7
	0.0	-4104.9	0.0	-47265.1	-4.5	-304401.9
	0.0	-4112.3	1.4	-45451.3	-231.1	-305661.4
	0.0	-4089.3	-3.0	-51143.6	479.7	-301703.2
	0.0	-4096.7	-1.6	-49329.8	253.2	-302962.7
	0.0	-4092.9	-2.3	-50217.5	366.0	-302348.3
	0.0	-4100.3	-0.9	-48403.7	139.4	-303607.8
	0.0	-4077.3	-5.2	-54096.0	850.2	-299649.6
	0.0	-4084.6	-3.9	-52282.2	623.6	-300909.1
Asta	63	nod	63	62		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4642.9	2.8	-41158.4	452.7	-262626.4
	0.0	4632.1	4.2	-39107.9	676.5	-261329.6
	0.0	4666.6	-0.2	-45592.6	-30.4	-265457.1
	0.0	4655.8	1.2	-43542.1	193.4	-264160.3
	0.0	4660.5	0.5	-44493.8	87.1	-264726.6
	0.0	4649.7	1.9	-42443.3	311.0	-263429.8
	0.0	4684.2	-2.4	-48928.0	-396.0	-267557.3
	0.0	4673.4	-1.1	-46877.4	-172.2	-266260.5
	0.0	4663.4	0.0	-45184.8	5.6	-265018.2
	0.0	4652.6	1.4	-43134.3	229.4	-263721.4
	0.0	4687.1	-3.0	-49619.0	-477.6	-267849.0
	0.0	4676.3	-1.6	-47568.5	-253.8	-266552.2
	0.0	4681.0	-2.2	-48520.2	-360.0	-267118.5
	0.0	4670.1	-0.9	-46469.7	-136.2	-265821.7
	0.0	4704.7	-5.2	-52954.3	-843.1	-269949.2
	0.0	4693.9	-3.8	-50903.8	-619.3	-268652.4
162.	0.0	-81.5	2.8	-39266.4	-0.7	103945.5
	0.0	-86.7	4.2	-37332.9	-0.6	103988.8
	0.0	-70.2	-0.2	-43445.5	-2.6	103856.3
	0.0	-75.4	1.2	-41512.0	-2.4	103899.5
	0.0	-73.1	0.5	-42411.7	-1.0	103877.5
	0.0	-78.3	1.9	-40478.2	-0.9	103920.7
	0.0	-61.8	-2.4	-46590.8	-2.9	103788.2
	0.0	-67.0	-1.1	-44657.3	-2.7	103831.5
	0.0	-71.8	0.0	-43064.6	2.2	103893.3
	0.0	-77.0	1.4	-41131.0	2.3	103936.6
	0.0	-60.5	-3.0	-47243.7	0.3	103804.1
	0.0	-65.7	-1.6	-45310.1	0.4	103847.4
	0.0	-63.4	-2.2	-46209.9	1.9	103825.3
	0.0	-68.6	-0.8	-44276.3	2.0	103868.5
	0.0	-52.1	-5.2	-50389.0	0.0	103736.0
	0.0	-57.3	-3.8	-48455.4	0.1	103779.3
323.	0.0	-4637.7	2.8	-38770.7	-454.0	-279942.4
	0.0	-4640.5	4.2	-36885.4	-677.6	-280502.8
	0.0	-4631.5	-0.2	-42843.4	26.7	-278717.8
	0.0	-4634.4	1.2	-40958.0	-196.8	-279278.1
	0.0	-4633.0	0.5	-41837.9	-89.1	-279029.3
	0.0	-4635.9	1.9	-39952.5	-312.6	-279589.7
	0.0	-4626.9	-2.4	-45910.5	391.7	-277804.7
	0.0	-4629.8	-1.1	-44025.1	168.1	-278365.0
	0.0	-4632.4	0.0	-42475.7	-2.6	-278853.6
	0.0	-4635.2	1.4	-40590.3	-226.2	-279413.9
	0.0	-4626.2	-3.0	-46548.4	478.1	-277628.9
	0.0	-4629.1	-1.6	-44663.0	254.6	-278189.2
	0.0	-4627.7	-2.2	-45542.8	362.3	-277940.5
	0.0	-4630.6	-0.9	-43657.4	138.8	-278500.8
	0.0	-4621.6	-5.2	-49615.5	843.0	-276715.8
	0.0	-4624.5	-3.8	-47730.1	619.5	-277276.1
Asta	64	nod	64	63		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	5959.7	2.8	-60071.5	446.6	-547834.5
	0.0	5944.5	4.2	-58315.1	668.1	-545341.5
	0.0	5992.9	-0.2	-63869.4	-31.2	-553252.6
	0.0	5977.7	1.2	-62113.1	190.3	-550759.6
	0.0	5984.5	0.5	-62929.9	84.8	-551882.6
	0.0	5969.2	1.9	-61173.6	306.3	-549389.7
	0.0	6017.7	-2.4	-66727.9	-393.0	-557300.7
	0.0	6002.4	-1.1	-64971.6	-171.5	-554807.8
	0.0	5988.5	0.0	-63519.3	6.4	-552534.6

	0.0	5973.2	1.4	-61763.0	227.9	-550041.7
	0.0	6021.7	-2.9	-67317.3	-471.4	-557952.7
	0.0	6006.4	-1.6	-65560.9	-249.9	-555459.8
	0.0	6013.2	-2.2	-66377.7	-355.3	-556582.8
	0.0	5998.0	-0.8	-64621.4	-133.9	-554089.8
	0.0	6046.4	-5.2	-70175.7	-833.2	-562000.9
	0.0	6031.2	-3.8	-68419.4	-611.7	-559507.9
162.	0.0	965.2	2.8	-54570.4	-1.9	11592.7
	0.0	960.1	4.1	-53046.7	-2.7	12454.4
	0.0	976.3	-0.2	-57863.4	0.4	9725.5
	0.0	971.2	1.2	-56339.7	-0.4	10587.2
	0.0	973.5	0.5	-57050.6	-0.5	10192.1
	0.0	968.4	1.9	-55526.9	-1.3	11053.7
	0.0	984.6	-2.4	-60343.6	1.7	8324.9
	0.0	979.5	-1.1	-58819.9	0.9	9186.5
	0.0	974.3	0.0	-57562.9	-0.2	9924.7
	0.0	969.2	1.4	-56039.1	-1.0	10786.4
	0.0	985.4	-2.9	-60855.8	2.0	8057.5
	0.0	980.3	-1.6	-59332.1	1.2	8919.2
	0.0	982.6	-2.2	-60043.0	1.1	8524.1
	0.0	977.5	-0.8	-58519.3	0.3	9385.7
	0.0	993.7	-5.2	-63336.0	3.4	6656.9
	0.0	988.6	-3.8	-61812.3	2.6	7518.5
323.	0.0	-3918.9	2.8	-51010.0	-450.3	-229374.5
	0.0	-3915.6	4.2	-49664.6	-673.4	-228628.5
	0.0	-3926.0	-0.2	-53915.0	31.9	-230988.4
	0.0	-3922.7	1.2	-52569.7	-191.2	-230242.5
	0.0	-3924.2	0.5	-53200.1	-85.8	-230588.4
	0.0	-3920.9	1.9	-51854.8	-308.9	-229842.5
	0.0	-3931.3	-2.4	-56105.1	396.4	-232202.4
	0.0	-3928.0	-1.1	-54759.8	173.3	-231456.5
	0.0	-3925.9	0.0	-53653.4	-6.8	-230938.8
	0.0	-3922.6	1.4	-52308.1	-229.9	-230192.8
	0.0	-3933.0	-2.9	-56558.5	475.4	-232552.7
	0.0	-3929.8	-1.6	-55213.2	252.2	-231806.8
	0.0	-3931.2	-2.2	-55843.5	357.7	-232152.7
	0.0	-3927.9	-0.8	-54498.2	134.6	-231406.8
	0.0	-3938.3	-5.2	-58748.6	839.9	-233766.7
	0.0	-3935.1	-3.8	-57403.3	616.7	-233020.8
Asta	65	nod1	65	64		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3836.9	2.9	8691.2	479.3	-241507.3
	0.0	3834.8	4.3	9257.3	717.6	-240888.2
	0.0	3841.4	-0.2	7474.3	-34.3	-242873.2
	0.0	3839.4	1.2	8040.4	204.1	-242254.0
	0.0	3840.1	0.5	7767.4	89.4	-242502.7
	0.0	3838.1	2.0	8333.5	327.8	-241883.5
	0.0	3844.6	-2.6	6550.5	-424.1	-243868.5
	0.0	3842.6	-1.1	7116.6	-185.8	-243249.3
	0.0	3839.3	0.0	7584.3	8.4	-242385.7
	0.0	3837.3	1.5	8150.4	246.7	-241766.5
	0.0	3843.8	-3.1	6367.3	-505.1	-243751.5
	0.0	3841.8	-1.6	6933.4	-266.8	-243132.3
	0.0	3842.5	-2.3	6660.5	-381.4	-243381.0
	0.0	3840.5	-0.9	7226.6	-143.1	-242761.8
	0.0	3847.1	-5.4	5443.5	-895.0	-244746.8
	0.0	3845.0	-4.0	6009.6	-656.6	-244127.6
162.	0.0	-672.1	2.9	14372.1	11.5	19856.1
	0.0	-666.6	4.3	14662.9	17.4	20714.1
	0.0	-683.8	-0.2	13751.8	-1.1	17996.1
	0.0	-678.3	1.2	14042.6	4.8	18854.1
	0.0	-681.0	0.5	13896.1	1.7	18462.3
	0.0	-675.6	2.0	14186.9	7.6	19320.3
	0.0	-692.7	-2.6	13275.9	-10.9	16602.2
	0.0	-687.3	-1.1	13566.7	-5.0	17460.2
	0.0	-684.9	0.0	13804.2	0.7	18225.0
	0.0	-679.4	1.5	14095.0	6.6	19083.0
	0.0	-696.6	-3.0	13183.9	-11.9	16365.0
	0.0	-691.1	-1.6	13474.8	-6.0	17223.0
	0.0	-693.8	-2.3	13328.2	-9.1	16831.1
	0.0	-688.3	-0.9	13619.1	-3.2	17689.1
	0.0	-705.5	-5.4	12708.0	-21.7	14971.1
	0.0	-700.0	-4.0	12998.8	-15.8	15829.1
323.	0.0	-5535.3	2.9	20565.7	-456.2	-478333.9
	0.0	-5520.0	4.3	20591.5	-682.7	-475817.4
	0.0	-5568.5	-0.2	20517.8	32.0	-483771.0
	0.0	-5553.1	1.2	20543.7	-194.5	-481254.5
	0.0	-5560.3	0.5	20520.6	-86.0	-482433.9
	0.0	-5545.0	2.0	20546.5	-312.5	-479917.4
	0.0	-5593.4	-2.6	20472.8	402.1	-487871.1
	0.0	-5578.1	-1.1	20498.7	175.6	-485354.6
	0.0	-5567.1	0.0	20516.4	-7.0	-483517.2
	0.0	-5551.8	1.5	20542.3	-233.5	-481000.7
	0.0	-5600.2	-3.1	20468.6	481.2	-488954.3
	0.0	-5584.9	-1.6	20494.4	254.7	-486437.8
	0.0	-5592.1	-2.3	20471.4	363.2	-487617.3
	0.0	-5576.8	-0.9	20497.3	136.7	-485100.8
	0.0	-5625.2	-5.4	20423.5	851.3	-493054.4
	0.0	-5609.9	-4.0	20449.4	624.8	-490537.9

Asta	66	nod	66	65		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	1822.3	2.5	129308.3	357.8	184171.3
	0.0	1822.8	3.7	126104.5	535.9	183728.9
	0.0	1821.5	-0.2	136252.6	-25.8	185108.2
	0.0	1821.9	1.1	133048.8	152.3	184665.8
	0.0	1821.6	0.5	134521.0	66.6	184899.5
	0.0	1822.1	1.7	131317.2	244.6	184457.0
	0.0	1820.8	-2.2	141465.3	-317.0	185836.3
	0.0	1821.2	-1.0	138261.5	-139.0	185393.9
	0.0	1818.9	0.0	135618.3	7.4	185660.4
	0.0	1819.3	1.3	132414.5	185.5	185218.0
	0.0	1818.1	-2.6	142562.6	-376.1	186597.2
	0.0	1818.5	-1.4	139358.8	-198.1	186154.8
	0.0	1818.2	-2.0	140830.9	-283.8	186388.5
	0.0	1818.6	-0.7	137627.1	-105.7	185946.1
	0.0	1817.4	-4.6	147775.2	-667.4	187325.4
	0.0	1817.8	-3.4	144571.4	-489.3	186883.0
162.	0.0	-1759.0	2.5	127976.5	-44.1	194631.9
	0.0	-1756.8	3.7	124668.3	-66.1	194367.9
	0.0	-1763.7	-0.2	135147.0	3.2	195199.0
	0.0	-1761.5	1.1	131838.8	-18.8	194935.0
	0.0	-1762.7	0.5	133359.0	-8.2	195064.1
	0.0	-1760.5	1.7	130050.8	-30.1	194800.0
	0.0	-1767.4	-2.2	140529.6	39.2	195631.2
	0.0	-1765.2	-1.0	137221.4	17.2	195367.2
	0.0	-1765.9	0.0	134488.9	-0.6	195358.6
	0.0	-1763.7	1.3	131180.7	-22.5	195094.6
	0.0	-1770.6	-2.6	141659.5	46.8	195925.7
	0.0	-1768.4	-1.4	138351.3	24.8	195661.7
	0.0	-1769.6	-2.0	139871.5	35.4	195790.8
	0.0	-1767.4	-0.7	136563.3	13.5	195526.7
	0.0	-1774.3	-4.6	147042.0	82.8	196357.9
	0.0	-1772.1	-3.4	143733.8	60.8	196093.8
323.	0.0	-5823.6	2.5	131195.6	-446.8	-411407.2
	0.0	-5816.8	3.7	127665.4	-669.1	-410980.0
	0.0	-5838.2	-0.2	138847.4	32.2	-412318.0
	0.0	-5831.4	1.1	135317.1	-190.1	-411890.9
	0.0	-5834.7	0.5	136939.4	-83.0	-412107.6
	0.0	-5827.9	1.7	133409.2	-305.3	-411680.5
	0.0	-5849.3	-2.2	144591.1	396.0	-413018.4
	0.0	-5842.5	-1.0	141060.9	173.7	-412591.3
	0.0	-5839.1	0.0	138142.1	-8.6	-412421.0
	0.0	-5832.3	1.3	134611.9	-230.9	-411993.8
	0.0	-5853.7	-2.6	145793.9	470.4	-413331.8
	0.0	-5846.9	-1.4	142263.7	248.1	-412904.7
	0.0	-5850.2	-2.0	143885.9	355.2	-413121.4
	0.0	-5843.4	-0.7	140355.7	132.9	-412694.3
	0.0	-5864.8	-4.7	151537.7	834.2	-414032.3
	0.0	-5858.1	-3.4	148007.4	611.9	-413605.1
Asta	67	nod	67	68		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2664.3	3.0	-24718.2	491.4	153447.5
	0.0	2626.2	4.6	-25850.4	736.8	165754.6
	0.0	2746.0	-0.2	-22302.3	-35.9	127171.9
	0.0	2707.9	1.3	-23434.5	209.5	139479.1
	0.0	2726.8	0.5	-22866.2	88.2	133338.3
	0.0	2688.7	2.1	-23998.4	333.6	145645.5
	0.0	2808.5	-2.7	-20450.3	-439.1	107062.8
	0.0	2770.4	-1.2	-21582.5	-193.7	119370.0
	0.0	2737.6	0.1	-22544.7	13.7	129129.8
	0.0	2699.5	1.6	-23676.9	259.1	141436.9
	0.0	2819.3	-3.2	-20128.8	-513.6	102854.3
	0.0	2781.2	-1.7	-21261.0	-268.2	115161.4
	0.0	2800.1	-2.4	-20692.7	-389.5	109020.6
	0.0	2762.0	-0.9	-21824.9	-144.1	121327.8
	0.0	2881.8	-5.7	-18276.8	-916.8	82745.1
	0.0	2843.7	-4.2	-19409.0	-671.4	95052.3
165.	0.0	-1138.2	3.0	-21651.2	-9.5	274022.5
	0.0	-1183.3	4.5	-22841.5	-14.5	279337.1
	0.0	-1041.7	-0.2	-19108.9	1.4	262712.8
	0.0	-1086.8	1.3	-20299.2	-3.7	268027.4
	0.0	-1064.4	0.5	-19702.3	-1.1	265368.5
	0.0	-1109.5	2.1	-20892.5	-6.1	270683.2
	0.0	-967.9	-2.7	-17160.0	9.8	254058.9
	0.0	-1013.0	-1.2	-18350.2	4.7	259373.5
	0.0	-1049.6	0.1	-19378.5	-0.6	263314.8
	0.0	-1094.7	1.6	-20568.7	-5.7	268629.4
	0.0	-953.1	-3.2	-16836.2	10.2	252005.1
	0.0	-998.3	-1.7	-18026.4	5.2	257319.7
	0.0	-975.8	-2.4	-17429.6	7.8	254660.9
	0.0	-1020.9	-0.9	-18619.8	2.7	259975.5
	0.0	-879.3	-5.7	-14887.3	18.7	243351.2
	0.0	-924.5	-4.1	-16077.5	13.6	248665.8
330.	0.0	-4683.6	3.0	-19385.9	-510.4	-208585.0
	0.0	-4730.7	4.6	-20678.2	-766.0	-210908.9
	0.0	-4583.3	-0.2	-16623.1	38.8	-203579.9
	0.0	-4630.3	1.3	-17915.4	-216.8	-205903.8
	0.0	-4606.8	0.5	-17267.8	-90.3	-204754.7
	0.0	-4653.9	2.1	-18560.1	-345.9	-207078.6

	0.0	-4506.5	-2.7	-14505.0	459.0	-199749.6
	0.0	-4553.5	-1.2	-15797.3	203.3	-202073.5
	0.0	-4590.4	0.1	-16929.7	-15.0	-204207.7
	0.0	-4637.4	1.6	-18222.0	-270.6	-206531.5
	0.0	-4490.0	-3.2	-14166.9	534.2	-199202.6
	0.0	-4537.0	-1.7	-15459.2	278.6	-201526.4
	0.0	-4513.6	-2.4	-14811.7	405.1	-200377.4
	0.0	-4560.6	-0.9	-16104.0	149.5	-202701.3
	0.0	-4413.2	-5.7	-12048.9	954.3	-195372.3
	0.0	-4460.2	-4.2	-13341.2	698.7	-197696.2
Asta	68	nod	68	59		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3780.6	2.5	-6455.2	466.7	-200668.8
	0.0	3729.2	3.8	-5123.3	700.6	-191947.4
	0.0	3890.3	-0.2	-9333.0	-35.5	-219264.8
	0.0	3838.9	1.1	-8001.1	198.3	-210543.4
	0.0	3864.5	0.4	-8659.5	82.5	-214894.9
	0.0	3813.1	1.7	-7327.6	316.3	-206173.5
	0.0	3974.2	-2.3	-11537.3	-419.7	-233490.8
	0.0	3922.8	-1.0	-10205.4	-185.9	-224769.5
	0.0	3882.3	0.1	-8917.1	13.2	-218109.9
	0.0	3830.9	1.3	-7585.2	247.0	-209388.6
	0.0	3992.0	-2.6	-11794.9	-489.0	-236705.9
	0.0	3940.6	-1.4	-10463.0	-255.2	-227984.5
	0.0	3966.3	-2.0	-11121.4	-371.0	-232336.0
	0.0	3914.9	-0.7	-9789.5	-137.2	-223614.6
	0.0	4076.0	-4.7	-13999.2	-873.3	-250932.0
	0.0	4024.6	-3.4	-12667.3	-639.4	-242210.6
165.	0.0	402.9	2.5	-4677.4	52.1	142076.7
	0.0	351.0	3.8	-3446.8	78.5	142296.9
	0.0	513.7	-0.2	-7336.8	-4.7	141623.7
	0.0	461.8	1.1	-6106.3	21.7	141843.8
	0.0	487.7	0.4	-6714.2	8.6	141732.3
	0.0	435.7	1.7	-5483.7	35.0	141952.5
	0.0	598.4	-2.2	-9373.7	-48.2	141279.3
	0.0	546.5	-1.0	-8143.1	-21.8	141499.5
	0.0	506.4	0.1	-6955.6	2.4	141511.6
	0.0	454.4	1.3	-5725.1	28.8	141731.7
	0.0	617.1	-2.6	-9615.1	-54.4	141058.5
	0.0	565.2	-1.4	-8384.5	-28.0	141278.7
	0.0	591.1	-2.0	-8992.4	-41.1	141167.2
	0.0	539.2	-0.7	-7761.9	-14.7	141387.4
	0.0	701.9	-4.7	-11651.9	-97.8	140714.2
	0.0	649.9	-3.4	-10421.3	-71.5	140934.4
330.	0.0	-2825.1	2.5	-3072.7	-361.8	-59260.2
	0.0	-2880.1	3.8	-1898.0	-542.4	-67838.4
	0.0	-2707.7	-0.2	-5612.3	26.0	-40940.2
	0.0	-2762.7	1.1	-4437.5	-154.7	-49518.4
	0.0	-2735.3	0.4	-5017.5	-65.2	-45245.3
	0.0	-2790.3	1.7	-3842.7	-245.8	-53823.6
	0.0	-2617.9	-2.2	-7557.0	322.5	-26925.3
	0.0	-2672.9	-1.0	-6382.3	141.9	-35503.6
	0.0	-2714.8	0.1	-5251.7	-8.3	-42232.3
	0.0	-2769.9	1.3	-4076.9	-188.9	-50810.5
	0.0	-2597.4	-2.6	-7791.2	379.4	-23912.3
	0.0	-2652.5	-1.4	-6616.5	198.8	-32490.5
	0.0	-2625.0	-2.0	-7196.4	288.3	-28217.4
	0.0	-2680.1	-0.7	-6021.6	107.6	-36795.7
	0.0	-2507.7	-4.7	-9736.0	676.0	-9897.4
	0.0	-2562.7	-3.4	-8561.2	495.3	-18475.7
Asta	69	nod	59	58		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2609.9	2.3	3022.5	323.2	-87133.3
	0.0	2570.6	3.5	5198.3	483.9	-81640.2
	0.0	2693.8	-0.1	-1635.8	-21.6	-98868.4
	0.0	2654.5	1.0	540.1	139.1	-93375.3
	0.0	2674.1	0.4	-540.9	59.6	-96113.6
	0.0	2634.8	1.6	1635.0	220.3	-90620.5
	0.0	2757.9	-2.0	-5199.2	-285.3	-107848.7
	0.0	2718.7	-0.9	-3023.3	-124.6	-102355.6
	0.0	2687.1	0.0	-1277.7	5.8	-97960.5
	0.0	2647.8	1.2	898.2	166.5	-92467.4
	0.0	2771.0	-2.4	-5936.0	-339.0	-109695.6
	0.0	2731.7	-1.3	-3760.1	-178.3	-104202.5
	0.0	2751.3	-1.8	-4841.1	-257.9	-106940.7
	0.0	2712.0	-0.7	-2665.2	-97.2	-101447.7
	0.0	2835.2	-4.3	-9499.4	-602.7	-118675.8
	0.0	2795.9	-3.2	-7323.5	-442.0	-113182.8
140.	0.0	-84.5	2.3	4369.2	-1.0	89517.8
	0.0	-126.2	3.5	6546.3	-0.9	89344.8
	0.0	4.5	-0.1	-291.5	-0.7	89886.3
	0.0	-37.2	1.0	1885.5	-0.7	89713.4
	0.0	-16.4	0.4	804.2	-1.0	89799.4
	0.0	-58.1	1.6	2981.3	-0.9	89626.5
	0.0	72.6	-2.0	-3856.5	-0.7	90167.9
	0.0	30.9	-0.9	-1679.5	-0.7	89995.0
	0.0	-2.0	0.0	59.4	0.4	89876.8
	0.0	-43.6	1.2	2236.5	0.5	89703.9
	0.0	87.0	-2.4	-4601.3	0.6	90245.3

	0.0	45.4	-1.3	-2424.3	0.7	90072.4
	0.0	66.1	-1.8	-3505.6	0.4	90158.4
	0.0	24.5	-0.7	-1328.5	0.4	89985.5
	0.0	155.1	-4.3	-8166.3	0.6	90527.0
	0.0	113.5	-3.2	-5989.3	0.7	90354.1
280.	0.0	-2779.4	2.3	5833.0	-324.6	-110840.5
	0.0	-2823.7	3.5	8069.6	-485.2	-117032.8
	0.0	-2684.8	-0.1	1044.9	20.3	-97612.2
	0.0	-2729.1	1.0	3281.5	-140.3	-103804.4
	0.0	-2707.1	0.4	2170.9	-61.0	-100721.5
	0.0	-2751.3	1.6	4407.5	-221.6	-106913.7
	0.0	-2612.4	-2.0	-2617.2	283.9	-87493.1
	0.0	-2656.7	-0.9	-380.6	123.3	-93685.3
	0.0	-2691.1	0.0	1398.1	-5.1	-98516.4
	0.0	-2735.4	1.2	3634.7	-165.8	-104708.7
	0.0	-2596.5	-2.4	-3389.9	339.7	-85288.0
	0.0	-2640.8	-1.3	-1153.4	179.1	-91480.3
	0.0	-2618.8	-1.8	-2264.0	258.5	-88397.3
	0.0	-2663.0	-0.7	-27.4	97.8	-94589.6
	0.0	-2524.1	-4.3	-7052.1	603.3	-75169.0
	0.0	-2568.4	-3.2	-4815.5	442.7	-81361.2
Asta	70	nod1	58	69		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2623.9	2.5	9330.0	366.2	-26446.4
	0.0	2580.4	3.8	11394.4	546.6	-18643.8
	0.0	2716.7	-0.1	4880.6	-21.6	-43111.8
	0.0	2673.2	1.1	6945.0	158.8	-35309.2
	0.0	2695.0	0.5	5937.3	70.1	-39197.4
	0.0	2651.4	1.7	8001.7	250.4	-31394.8
	0.0	2787.8	-2.2	1487.9	-317.7	-55862.8
	0.0	2744.3	-1.0	3552.3	-137.4	-48060.1
	0.0	2708.9	0.0	5093.2	4.7	-41847.6
	0.0	2665.4	1.3	7157.6	185.0	-34045.0
	0.0	2801.8	-2.7	643.8	-383.1	-58513.0
	0.0	2758.2	-1.4	2708.2	-202.8	-50710.4
	0.0	2780.0	-2.0	1700.6	-291.5	-54598.6
	0.0	2736.5	-0.8	3764.9	-111.1	-46796.0
	0.0	2872.9	-4.7	-2748.9	-679.3	-71264.0
	0.0	2829.3	-3.5	-684.5	-498.9	-63461.3
165.	0.0	-602.6	2.5	11334.1	-54.2	141885.4
	0.0	-648.5	3.8	13543.9	-80.4	142327.0
	0.0	-504.8	-0.1	6572.9	2.6	140919.4
	0.0	-550.7	1.1	8782.7	-23.7	141361.0
	0.0	-527.8	0.5	7703.4	-11.0	141154.5
	0.0	-573.6	1.7	9913.2	-37.3	141596.1
	0.0	-430.0	-2.2	2942.2	45.7	140188.5
	0.0	-475.8	-1.0	5152.0	19.5	140630.1
	0.0	-512.4	0.0	6797.7	0.0	140914.8
	0.0	-558.2	1.3	9007.5	-26.2	141356.4
	0.0	-414.6	-2.7	2036.5	56.8	139948.8
	0.0	-460.4	-1.4	4246.3	30.5	140390.4
	0.0	-437.5	-2.0	3167.1	43.2	140183.9
	0.0	-483.4	-0.8	5376.9	17.0	140625.5
	0.0	-339.7	-4.7	-1594.1	100.0	139217.9
	0.0	-385.6	-3.5	615.7	73.7	139659.5
330.	0.0	-3987.8	2.6	13757.7	-475.5	-234356.5
	0.0	-4038.0	3.8	16194.7	-708.7	-241818.7
	0.0	-3880.6	-0.1	8508.5	26.8	-218451.2
	0.0	-3930.8	1.1	10945.5	-206.5	-225913.3
	0.0	-3905.8	0.5	9754.7	-92.3	-222177.1
	0.0	-3956.0	1.8	12191.7	-325.5	-229639.3
	0.0	-3798.6	-2.2	4505.4	410.0	-206271.8
	0.0	-3848.8	-1.0	6942.4	176.7	-213733.9
	0.0	-3888.3	0.0	8753.9	-4.6	-219711.3
	0.0	-3938.5	1.3	11190.9	-237.9	-227173.5
	0.0	-3781.1	-2.7	3504.7	497.6	-203806.0
	0.0	-3831.3	-1.4	5941.6	264.4	-211268.2
	0.0	-3806.3	-2.0	4750.8	378.6	-207531.9
	0.0	-3856.5	-0.8	7187.8	145.3	-214994.1
	0.0	-3699.1	-4.7	-498.4	880.8	-191626.6
	0.0	-3749.3	-3.5	1938.6	647.6	-199088.8
Asta	71	nod1	69	70		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4494.3	3.1	11896.6	518.9	-197917.4
	0.0	4448.9	4.6	9680.7	774.0	-194295.9
	0.0	4591.2	-0.2	16638.3	-30.2	-205702.1
	0.0	4545.8	1.3	14422.4	224.9	-202080.6
	0.0	4568.5	0.6	15520.2	100.0	-203856.1
	0.0	4523.1	2.1	13304.3	355.1	-200234.6
	0.0	4665.4	-2.7	20262.0	-449.1	-211640.8
	0.0	4620.0	-1.2	18046.0	-194.0	-208019.3
	0.0	4584.2	0.0	16405.1	5.4	-205275.4
	0.0	4538.8	1.6	14189.2	260.5	-201654.0
	0.0	4681.1	-3.2	21146.8	-543.7	-213060.1
	0.0	4635.7	-1.7	18930.9	-288.5	-209438.7
	0.0	4658.3	-2.5	20028.7	-413.5	-211214.2
	0.0	4612.9	-0.9	17812.8	-158.4	-207592.7
	0.0	4755.2	-5.7	24770.5	-962.6	-218998.9
	0.0	4709.8	-4.2	22554.5	-707.5	-215377.4

165.	0.0	946.8	3.1	14804.1	11.9	253149.1
	0.0	897.6	4.6	12819.6	16.7	248956.1
	0.0	1052.0	-0.2	19048.2	0.8	262061.7
	0.0	1002.8	1.3	17063.7	5.7	257868.7
	0.0	1027.3	0.6	18048.2	3.6	259981.8
	0.0	978.1	2.1	16063.6	8.5	255788.9
	0.0	1132.5	-2.7	22292.3	-7.4	268894.4
	0.0	1083.3	-1.2	20307.8	-2.5	264701.4
	0.0	1045.0	0.0	18835.8	-0.9	261327.4
	0.0	995.8	1.6	16851.2	4.0	257134.4
	0.0	1150.3	-3.2	23079.9	-11.9	270240.0
	0.0	1101.1	-1.7	21095.3	-7.0	266047.0
	0.0	1125.5	-2.4	22079.8	-9.2	268160.1
	0.0	1076.3	-0.9	20095.3	-4.3	263967.2
	0.0	1230.7	-5.7	26324.0	-20.2	277072.7
	0.0	1181.5	-4.2	24339.4	-15.3	272879.8
330.	0.0	-2838.7	3.1	18259.7	-495.2	101912.4
	0.0	-2889.1	4.6	16433.0	-740.5	89415.8
	0.0	-2730.6	-0.2	22163.3	31.7	128606.0
	0.0	-2781.0	1.3	20336.7	-213.5	116109.3
	0.0	-2756.1	0.6	21244.3	-92.9	122333.9
	0.0	-2806.5	2.1	19417.7	-338.2	109837.2
	0.0	-2648.0	-2.7	25148.0	434.0	149027.4
	0.0	-2698.4	-1.2	23321.3	188.7	136530.8
	0.0	-2736.8	0.0	21963.8	-7.1	126759.6
	0.0	-2787.2	1.6	20137.1	-252.3	114262.9
	0.0	-2628.7	-3.2	25867.4	519.9	153453.1
	0.0	-2679.1	-1.7	24040.8	274.6	140956.5
	0.0	-2654.3	-2.5	24948.4	395.2	147181.0
	0.0	-2704.7	-0.9	23121.8	149.9	134684.4
	0.0	-2546.1	-5.7	28852.1	922.1	173874.6
	0.0	-2596.5	-4.2	27025.4	676.9	161378.0
Asta	72	nodl	71	70	MYT	MZZ
PROGR.	NORM	TYT	TZZ	TORS		
0.	0.0	4971.8	3.0	87581.6	516.5	-343235.4
	0.0	5014.0	4.4	83730.8	773.0	-347555.6
	0.0	4881.0	-0.2	95788.2	-33.5	-333959.3
	0.0	4923.2	1.3	91937.3	223.0	-338279.5
	0.0	4902.6	0.6	93867.2	96.3	-336154.9
	0.0	4944.8	2.0	90016.3	352.8	-340475.1
	0.0	4811.8	-2.6	102073.7	-453.8	-326878.8
	0.0	4854.0	-1.1	98222.8	-197.3	-331199.0
	0.0	4885.7	0.0	95252.1	8.2	-334550.8
	0.0	4927.9	1.5	91401.2	264.7	-338871.0
	0.0	4794.9	-3.1	103458.7	-541.9	-325274.7
	0.0	4837.1	-1.6	99607.8	-285.4	-329594.9
	0.0	4816.4	-2.4	101537.6	-412.1	-327470.3
	0.0	4858.6	-0.9	97686.7	-155.5	-331790.5
	0.0	4725.6	-5.5	109744.2	-962.1	-318194.2
	0.0	4767.8	-4.1	105893.3	-705.6	-322514.4
170.	0.0	1088.5	3.0	76693.2	12.5	173287.4
	0.0	1137.2	4.4	73206.5	18.6	176673.9
	0.0	984.1	-0.2	84124.8	-0.5	165997.6
	0.0	1032.7	1.3	80638.1	5.7	169384.1
	0.0	1008.8	0.6	82384.8	2.6	167728.0
	0.0	1057.5	2.0	78898.2	8.7	171114.5
	0.0	904.3	-2.6	89816.4	-10.4	160438.2
	0.0	953.0	-1.1	86329.8	-4.3	163824.7
	0.0	990.1	0.0	83644.7	0.1	166305.0
	0.0	1038.7	1.5	80158.0	6.2	169691.5
	0.0	885.6	-3.1	91076.3	-12.8	159015.2
	0.0	934.3	-1.6	87589.6	-6.7	162401.7
	0.0	910.3	-2.4	89336.3	-9.8	160745.6
	0.0	959.0	-0.9	85849.7	-3.7	164132.1
	0.0	805.9	-5.5	96767.9	-22.8	153455.8
	0.0	854.5	-4.0	93281.3	-16.7	156842.3
340.	0.0	-2909.5	3.0	68816.0	-491.3	21036.0
	0.0	-2854.7	4.4	65556.6	-735.4	33274.0
	0.0	-3026.9	-0.2	75764.4	32.6	-5227.2
	0.0	-2972.1	1.3	72505.0	-211.5	7010.8
	0.0	-2999.3	0.6	74137.3	-91.1	983.3
	0.0	-2944.4	2.0	70877.9	-335.3	13221.2
	0.0	-3116.6	-2.6	81085.7	432.8	-25279.9
	0.0	-3061.8	-1.1	77826.3	188.6	-13042.0
	0.0	-3019.3	0.0	75321.4	-7.9	-3760.4
	0.0	-2964.4	1.5	72062.1	-252.1	8477.5
	0.0	-3136.6	-3.1	82269.8	516.0	-30023.6
	0.0	-3081.8	-1.6	79010.5	271.8	-17785.7
	0.0	-3109.0	-2.4	80642.7	392.2	-23813.2
	0.0	-3054.1	-0.9	77383.4	148.0	-11575.2
	0.0	-3226.3	-5.5	87591.1	916.1	-50076.4
	0.0	-3171.5	-4.1	84331.8	671.9	-37838.4
Asta	73	nodl	50	71	MYT	MZZ
PROGR.	NORM	TYT	TZZ	TORS		
0.	0.0	2470.5	2.9	23857.2	478.9	48322.0
	0.0	2526.1	4.3	26777.7	716.5	37434.2
	0.0	2351.3	-0.2	17598.8	-31.1	71709.5
	0.0	2406.8	1.2	20519.3	206.5	60821.8
	0.0	2379.5	0.5	19081.0	89.7	66170.3

	0.0	2435.0	2.0	22001.5	327.3	55282.6
	0.0	2260.3	-2.5	12822.6	-420.3	89557.8
	0.0	2315.8	-1.1	15743.1	-182.7	78670.1
	0.0	2357.9	0.0	18061.1	6.7	70355.5
	0.0	2413.5	1.5	20981.6	244.3	59467.8
	0.0	2238.7	-3.0	11802.7	-503.3	93743.0
	0.0	2294.2	-1.6	14723.2	-265.7	82855.3
	0.0	2266.9	-2.3	13284.9	-382.5	88203.9
	0.0	2322.4	-0.9	16205.4	-144.9	77316.2
	0.0	2147.7	-5.3	7026.5	-892.5	111591.4
	0.0	2203.2	-3.9	9947.0	-654.9	100703.7
173.	0.0	-1052.3	2.9	10665.0	-15.5	173004.5
	0.0	-996.7	4.3	13832.8	-23.2	171666.8
	0.0	-1171.8	-0.2	3882.8	0.9	175879.5
	0.0	-1116.1	1.2	7050.6	-6.9	174541.8
	0.0	-1143.5	0.5	5486.3	-2.8	175195.7
	0.0	-1087.9	2.0	8654.1	-10.6	173858.0
	0.0	-1263.0	-2.5	-1295.8	13.5	178070.7
	0.0	-1207.3	-1.1	1871.9	5.8	176732.9
	0.0	-1165.1	0.0	4381.2	-0.5	175663.1
	0.0	-1109.5	1.5	7549.0	-8.2	174325.4
	0.0	-1284.6	-3.0	-2401.0	15.9	178538.0
	0.0	-1229.0	-1.6	766.8	8.1	177200.3
	0.0	-1256.3	-2.3	-797.4	12.2	177854.3
	0.0	-1200.7	-0.9	2370.3	4.4	176516.5
	0.0	-1375.8	-5.3	-7579.6	28.5	180729.2
	0.0	-1320.2	-3.9	-4411.9	20.8	179391.5
345.	0.0	-4812.3	2.9	-2096.4	-510.1	-329028.8
	0.0	-4751.9	4.3	1446.6	-763.4	-320419.7
	0.0	-4942.1	-0.2	-9676.3	32.9	-347517.1
	0.0	-4881.6	1.2	-6133.4	-220.3	-338907.9
	0.0	-4911.4	0.5	-7886.7	-95.4	-343143.4
	0.0	-4850.9	2.0	-4343.7	-348.6	-334534.3
	0.0	-5041.1	-2.5	-15466.6	447.6	-361631.7
	0.0	-4980.7	-1.1	-11923.7	194.4	-353022.5
	0.0	-4934.7	0.0	-9121.7	-7.7	-346534.1
	0.0	-4874.2	1.5	-5578.7	-260.9	-337925.0
	0.0	-5064.4	-3.0	-16701.7	535.3	-365022.3
	0.0	-5004.0	-1.6	-13158.7	282.1	-356413.2
	0.0	-5033.7	-2.3	-14912.0	407.1	-360648.7
	0.0	-4973.3	-0.9	-11369.1	153.8	-352039.6
	0.0	-5163.5	-5.4	-22492.0	950.1	-379136.9
	0.0	-5103.1	-3.9	-18949.0	696.8	-370527.8
Asta	74	nod	50	72		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4695.4	6.4	-34133.6	491.3	-402741.6
	0.0	4627.4	9.7	-34138.1	735.2	-397121.1
	0.0	4840.9	-0.4	-34153.8	-32.3	-414847.0
	0.0	4773.0	2.8	-34158.3	211.6	-409226.4
	0.0	4806.7	1.2	-34128.6	91.9	-411954.3
	0.0	4738.7	4.4	-34133.1	335.8	-406333.8
	0.0	4952.2	-5.7	-34148.8	-431.7	-424059.7
	0.0	4884.3	-2.5	-34153.3	-187.8	-418439.2
	0.0	4832.6	0.1	-34091.8	6.5	-414068.3
	0.0	4764.7	3.3	-34096.4	250.4	-408447.8
	0.0	4978.1	-6.8	-34112.1	-517.2	-426173.7
	0.0	4910.2	-3.6	-34116.6	-273.3	-420553.2
	0.0	4943.9	-5.2	-34086.9	-392.9	-423281.1
	0.0	4876.0	-2.0	-34091.4	-149.0	-417660.5
	0.0	5089.4	-12.1	-34107.1	-916.5	-435386.4
	0.0	5021.5	-8.9	-34111.6	-672.7	-429765.9
88.	0.0	2794.0	6.4	-34361.5	-72.3	-73097.0
	0.0	2727.9	9.6	-34339.8	-109.2	-73371.2
	0.0	2935.7	-0.4	-34425.8	6.6	-72571.6
	0.0	2869.5	2.8	-34404.1	-30.3	-72845.8
	0.0	2902.4	1.2	-34399.9	-12.2	-72658.7
	0.0	2836.2	4.4	-34378.2	-49.1	-72932.9
	0.0	3044.0	-5.7	-34464.2	66.7	-72133.3
	0.0	2977.9	-2.5	-34442.5	29.9	-72407.5
	0.0	2927.6	0.1	-34391.0	-0.5	-72527.5
	0.0	2861.4	3.3	-34369.3	-37.3	-72801.6
	0.0	3069.2	-6.8	-34455.3	78.5	-72002.1
	0.0	3003.1	-3.6	-34433.6	41.6	-72276.2
	0.0	3035.9	-5.2	-34429.4	59.6	-72089.2
	0.0	2969.8	-2.0	-34407.7	22.8	-72363.3
	0.0	3177.6	-12.1	-34493.7	138.6	-71563.8
	0.0	3111.4	-8.8	-34472.0	101.7	-71837.9
175.	0.0	636.4	6.4	-34957.8	-636.1	78839.5
	0.0	575.5	9.7	-34909.6	-953.8	72976.4
	0.0	767.1	-0.4	-35078.5	45.5	91320.0
	0.0	706.1	2.8	-35030.4	-272.1	85457.0
	0.0	736.3	1.2	-35039.9	-116.4	88430.6
	0.0	675.4	4.4	-34991.7	-434.1	82567.6
	0.0	867.0	-5.7	-35160.7	565.3	100911.2
	0.0	806.0	-2.5	-35112.5	247.6	95048.1
	0.0	759.7	0.1	-35035.6	-7.4	90694.9
	0.0	698.7	3.3	-34987.4	-325.1	84831.8
	0.0	890.4	-6.8	-35156.3	674.2	103175.4
	0.0	829.4	-3.6	-35108.2	356.5	97312.4
	0.0	859.6	-5.2	-35117.7	512.3	100286.0

	0.0	798.6	-2.0	-35069.5	194.6	94423.0
	0.0	990.3	-12.1	-35238.5	1193.9	112766.6
	0.0	929.3	-8.9	-35190.3	876.2	106903.5
Asta	75	nod1	73	72		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	6236.4	4.0	179068.5	645.8	-410160.1
	0.0	6275.9	5.9	178734.2	965.9	-415660.0
	0.0	6151.6	-0.3	179734.0	-40.3	-398393.5
	0.0	6191.0	1.7	179399.7	279.9	-403893.4
	0.0	6171.6	0.7	179628.0	122.3	-401156.2
	0.0	6211.1	2.7	179293.7	442.4	-406656.1
	0.0	6086.8	-3.5	180293.4	-563.8	-389389.6
	0.0	6126.3	-1.5	179959.1	-243.7	-394889.5
	0.0	6156.3	0.0	179860.7	6.9	-399067.6
	0.0	6195.8	2.0	179526.4	327.0	-404567.5
	0.0	6071.5	-4.2	180526.1	-679.2	-387301.0
	0.0	6110.9	-2.2	180191.8	-359.1	-392800.9
	0.0	6091.6	-3.2	180420.1	-516.7	-390063.7
	0.0	6131.0	-1.2	180085.8	-196.6	-395563.6
	0.0	6006.7	-7.4	181085.5	-1202.8	-378297.1
	0.0	6046.2	-5.4	180751.2	-882.6	-383797.0
162.	0.0	1489.8	4.0	159528.8	5.5	208695.3
	0.0	1539.1	5.9	159377.7	7.4	210316.1
	0.0	1384.2	-0.3	159814.6	1.7	205176.3
	0.0	1433.5	1.7	159663.5	3.6	206797.2
	0.0	1409.1	0.7	159789.9	2.5	206027.3
	0.0	1458.4	2.7	159638.7	4.4	207648.1
	0.0	1303.5	-3.5	160075.7	-1.3	202508.3
	0.0	1352.8	-1.5	159924.5	0.6	204129.2
	0.0	1390.3	0.0	159956.9	-0.3	205368.8
	0.0	1439.5	2.0	159805.7	1.6	206989.7
	0.0	1284.7	-4.2	160242.7	-4.0	201849.9
	0.0	1333.9	-2.2	160091.6	-2.2	203470.7
	0.0	1309.6	-3.2	160217.9	-3.3	202700.8
	0.0	1358.9	-1.2	160066.8	-1.4	204321.7
	0.0	1204.0	-7.4	160503.8	-7.0	199181.9
	0.0	1253.3	-5.4	160352.6	-5.2	200802.7
323.	0.0	-2864.8	4.0	145663.6	-634.9	93336.1
	0.0	-2802.3	5.9	145690.2	-951.3	103969.1
	0.0	-2998.4	-0.3	145549.3	43.6	70522.4
	0.0	-2935.9	1.7	145575.9	-272.8	81155.5
	0.0	-2967.0	0.7	145635.5	-117.5	75914.8
	0.0	-2904.5	2.7	145662.2	-433.8	86547.8
	0.0	-3100.6	-3.5	145521.2	561.1	53101.1
	0.0	-3038.1	-1.5	145547.8	244.7	63734.2
	0.0	-2990.6	0.0	145770.5	-7.2	71831.7
	0.0	-2928.1	2.0	145797.1	-323.5	82464.7
	0.0	-3124.2	-4.2	145656.1	671.3	49018.0
	0.0	-3061.7	-2.2	145682.8	355.0	59651.0
	0.0	-3092.8	-3.2	145742.4	510.3	54410.4
	0.0	-3030.3	-1.2	145769.1	193.9	65043.4
	0.0	-3226.4	-7.4	145628.1	1188.8	31596.7
	0.0	-3164.0	-5.4	145654.7	872.5	42229.8
Asta	76	nod1	74	73		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	5693.9	4.0	47394.1	644.5	-508895.6
	0.0	5733.8	6.0	49687.5	965.2	-515514.1
	0.0	5607.9	-0.3	42446.9	-44.7	-494725.8
	0.0	5647.9	1.7	44740.3	276.0	-501344.2
	0.0	5628.3	0.8	43678.3	122.5	-498042.7
	0.0	5668.3	2.8	45971.7	443.2	-504661.1
	0.0	5542.4	-3.5	38731.1	-566.6	-483872.9
	0.0	5582.4	-1.5	41024.5	-245.9	-490491.3
	0.0	5612.6	0.0	42921.0	8.4	-495438.1
	0.0	5652.6	2.0	45214.4	329.1	-502056.5
	0.0	5526.7	-4.2	37973.8	-680.8	-481268.2
	0.0	5566.7	-2.2	40267.2	-360.1	-487886.6
	0.0	5547.1	-3.2	39205.2	-513.6	-484585.1
	0.0	5587.0	-1.2	41498.6	-192.9	-491203.5
	0.0	5461.2	-7.5	34258.0	-1202.7	-470415.3
	0.0	5501.1	-5.5	36551.4	-882.0	-477033.7
162.	0.0	411.9	4.0	23746.8	-1.6	-16442.8
	0.0	453.7	6.0	26100.5	-2.0	-16514.8
	0.0	322.3	-0.3	18681.8	-2.7	-16311.0
	0.0	364.0	1.7	21035.5	-3.1	-16383.0
	0.0	343.5	0.8	19931.5	-0.1	-16327.5
	0.0	385.2	2.7	22285.2	-0.5	-16399.5
	0.0	253.9	-3.5	14866.6	-1.2	-16195.7
	0.0	295.6	-1.5	17220.2	-1.6	-16267.7
	0.0	327.2	0.0	19144.3	1.3	-16286.6
	0.0	369.0	2.0	21498.0	0.8	-16358.6
	0.0	237.6	-4.2	14079.4	0.1	-16154.8
	0.0	279.3	-2.2	16433.0	-0.3	-16226.8
	0.0	258.8	-3.2	15329.1	2.8	-16171.3
	0.0	300.5	-1.2	17682.7	2.3	-16243.3
	0.0	169.2	-7.4	10264.1	1.6	-16039.5
	0.0	210.9	-5.5	12617.7	1.2	-16111.5
323.	0.0	-4680.9	4.0	944.6	-648.9	-365278.3
	0.0	-4632.4	6.0	3442.3	-970.5	-358111.7

	0.0	-4785.0	-0.3	-4418.5	40.6	-380718.2
	0.0	-4736.5	1.7	-1920.8	-280.9	-373551.6
	0.0	-4760.4	0.8	-3106.0	-123.9	-377031.4
	0.0	-4711.9	2.8	-608.3	-445.5	-369864.8
	0.0	-4864.5	-3.5	-8469.0	565.6	-392471.2
	0.0	-4816.0	-1.5	-5971.4	244.1	-385304.7
	0.0	-4779.1	0.0	-3951.1	-7.2	-379801.1
	0.0	-4730.6	2.0	-1453.4	-328.8	-372634.5
	0.0	-4883.2	-4.2	-9314.2	682.3	-395241.0
	0.0	-4834.7	-2.2	-6816.5	360.8	-388074.4
	0.0	-4858.7	-3.2	-8001.6	517.7	-391554.2
	0.0	-4810.1	-1.2	-5503.9	196.2	-384387.6
	0.0	-4962.7	-7.5	-13364.7	1207.3	-406994.1
	0.0	-4914.2	-5.5	-10867.0	885.7	-399827.5
Asta	77	nod1	75	74		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	5058.7	4.0	-101377.0	639.6	-508920.9
	0.0	5105.4	5.9	-99036.7	958.5	-516609.3
	0.0	4958.1	-0.3	-106421.3	-49.0	-492450.4
	0.0	5004.8	1.7	-104081.0	269.9	-500138.8
	0.0	4982.2	0.7	-105164.5	120.7	-496297.1
	0.0	5028.9	2.7	-102824.3	439.6	-503985.5
	0.0	4881.6	-3.5	-110208.9	-568.0	-479826.6
	0.0	4928.3	-1.5	-107868.6	-249.1	-487514.9
	0.0	4964.1	0.1	-105936.0	10.0	-493191.2
	0.0	5010.8	2.0	-103595.7	328.9	-500879.6
	0.0	4863.6	-4.2	-110980.3	-678.7	-476720.7
	0.0	4910.3	-2.2	-108640.1	-359.7	-484409.1
	0.0	4887.6	-3.2	-109723.6	-508.9	-480567.4
	0.0	4934.3	-1.2	-107383.3	-190.0	-488255.7
	0.0	4787.1	-7.4	-114767.9	-1197.6	-464096.8
	0.0	4833.8	-5.4	-112427.6	-878.7	-471785.2
162.	0.0	119.6	4.0	-119087.0	-0.2	-84533.9
	0.0	160.9	5.9	-116847.8	-0.6	-85153.0
	0.0	31.0	-0.3	-123902.2	-1.6	-83263.6
	0.0	72.2	1.7	-121663.0	-2.1	-83882.7
	0.0	52.0	0.7	-122712.8	0.4	-83495.0
	0.0	93.3	2.7	-120473.6	-0.1	-84114.1
	0.0	-36.7	-3.5	-127528.0	-1.1	-82224.6
	0.0	4.6	-1.5	-125288.8	-1.6	-82843.7
	0.0	35.8	0.1	-123460.3	1.2	-83141.4
	0.0	77.1	2.0	-121221.1	0.7	-83760.5
	0.0	-52.8	-4.2	-128275.5	-0.3	-81871.0
	0.0	-11.6	-2.2	-126036.2	-0.7	-82490.1
	0.0	-31.8	-3.2	-127086.0	1.7	-82102.5
	0.0	9.4	-1.2	-124846.8	1.2	-82721.6
	0.0	-120.5	-7.4	-131901.2	0.2	-80832.1
	0.0	-79.2	-5.4	-129662.0	-0.2	-81451.2
323.	0.0	-5119.7	4.0	-141031.9	-641.4	-486381.5
	0.0	-5079.8	5.9	-138814.1	-961.3	-480489.7
	0.0	-5205.5	-0.3	-145789.3	47.4	-499100.5
	0.0	-5165.5	1.7	-143571.4	-272.4	-493208.6
	0.0	-5185.3	0.7	-144624.8	-121.4	-496023.0
	0.0	-5145.3	2.7	-142407.0	-441.3	-490131.2
	0.0	-5271.0	-3.5	-149382.1	567.5	-508742.0
	0.0	-5231.1	-1.5	-147164.3	247.6	-502850.1
	0.0	-5201.0	0.1	-145374.9	-9.3	-498234.6
	0.0	-5161.1	2.0	-143157.1	-329.1	-492342.7
	0.0	-5286.8	-4.2	-150132.2	679.6	-510953.5
	0.0	-5246.8	-2.2	-147914.4	359.8	-505061.6
	0.0	-5266.5	-3.2	-148967.7	510.7	-507876.1
	0.0	-5226.6	-1.2	-146749.9	190.9	-501984.2
	0.0	-5352.3	-7.4	-153725.1	1199.6	-520595.0
	0.0	-5312.4	-5.4	-151507.3	879.8	-514703.1
Asta	78	nod1	76	75		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2040.4	4.0	-318991.7	660.1	13859.5
	0.0	2093.8	6.1	-319477.4	987.5	3972.8
	0.0	1925.0	-0.3	-317902.9	-45.1	35138.6
	0.0	1978.3	1.7	-318388.7	282.3	25251.9
	0.0	1953.5	0.8	-318190.6	125.0	30044.5
	0.0	2006.9	2.8	-318676.3	452.4	20157.8
	0.0	1838.0	-3.6	-317101.8	-580.2	51323.6
	0.0	1891.4	-1.6	-317587.6	-252.8	41436.9
	0.0	1934.6	0.1	-317957.8	12.4	33855.4
	0.0	1987.9	2.1	-318443.5	339.8	23968.7
	0.0	1819.1	-4.3	-316869.0	-692.7	55134.5
	0.0	1872.4	-2.3	-317354.7	-365.3	45247.8
	0.0	1847.6	-3.2	-317156.7	-522.7	50040.4
	0.0	1901.0	-1.2	-317642.4	-195.3	40153.7
	0.0	1732.1	-7.5	-316067.9	-1227.8	71319.5
	0.0	1785.5	-5.5	-316553.6	-900.4	61432.8
162.	0.0	-1515.1	4.0	-317641.0	7.2	66977.4
	0.0	-1469.8	6.0	-318235.9	10.2	65076.8
	0.0	-1612.9	-0.3	-316308.1	1.5	71005.2
	0.0	-1567.5	1.7	-316902.9	4.5	69104.7
	0.0	-1589.3	0.8	-316665.7	1.7	70123.4
	0.0	-1544.0	2.8	-317260.5	4.6	68222.8
	0.0	-1687.0	-3.6	-315332.8	-4.0	74151.2

	0.0	-1641.7	-1.6	-315927.6	-1.1	72250.7
	0.0	-1606.4	0.1	-316409.8	0.8	71008.5
	0.0	-1561.1	2.1	-317004.7	3.7	69108.0
	0.0	-1704.1	-4.3	-315076.9	-4.9	75036.3
	0.0	-1658.8	-2.2	-315671.8	-1.9	73135.8
	0.0	-1680.5	-3.2	-315434.5	-4.8	74154.5
	0.0	-1635.2	-1.2	-316029.3	-1.8	72254.0
	0.0	-1778.2	-7.5	-314101.6	-10.4	78182.3
	0.0	-1732.9	-5.5	-314696.4	-7.5	76281.8
323.	0.0	-5866.2	4.0	-327586.0	-645.8	-519593.1
	0.0	-5827.7	6.1	-328311.1	-967.2	-514739.0
	0.0	-5949.0	-0.3	-325961.5	48.3	-530101.3
	0.0	-5910.4	1.7	-326686.7	-273.2	-525247.2
	0.0	-5929.4	0.8	-326401.7	-121.8	-527510.3
	0.0	-5890.9	2.8	-327126.8	-443.3	-522656.2
	0.0	-6012.1	-3.6	-324777.2	572.2	-538018.5
	0.0	-5973.6	-1.6	-325502.4	250.8	-533164.3
	0.0	-5944.5	0.1	-326113.5	-11.1	-529230.9
	0.0	-5906.0	2.1	-326838.6	-332.5	-524376.8
	0.0	-6027.3	-4.3	-324489.0	683.0	-539739.1
	0.0	-5988.7	-2.3	-325214.2	361.6	-534884.9
	0.0	-6007.7	-3.2	-324929.2	512.9	-537148.1
	0.0	-5969.2	-1.2	-325654.4	191.5	-532293.9
	0.0	-6090.4	-7.5	-323304.8	1206.9	-547656.3
	0.0	-6051.9	-5.5	-324029.9	885.5	-542802.1
Asta	79	nod	77	76		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	6822.4	3.5	-48999.2	551.1	-265836.5
	0.0	6875.4	5.2	-48360.6	824.5	-274831.0
	0.0	6707.8	-0.2	-50374.7	-37.3	-246406.0
	0.0	6760.8	1.5	-49736.0	236.1	-255400.5
	0.0	6735.9	0.7	-50042.6	103.6	-251161.3
	0.0	6788.9	2.4	-49404.0	377.0	-260155.8
	0.0	6621.3	-3.1	-51418.1	-484.8	-231730.8
	0.0	6674.3	-1.3	-50779.5	-211.4	-240725.3
	0.0	6716.3	0.1	-50245.7	9.7	-247921.9
	0.0	6769.3	1.8	-49607.1	283.1	-256916.4
	0.0	6601.7	-3.7	-51621.2	-578.8	-228491.4
	0.0	6654.7	-1.9	-50982.5	-305.4	-237485.9
	0.0	6629.8	-2.8	-51289.1	-437.8	-233246.7
	0.0	6682.8	-1.0	-50650.5	-164.4	-242241.2
	0.0	6515.2	-6.5	-52664.6	-1026.3	-213816.2
	0.0	6568.2	-4.8	-52026.0	-752.9	-222810.7
168.	0.0	1787.9	3.5	-38593.6	-35.2	435083.9
	0.0	1839.8	5.2	-37920.6	-52.5	434942.4
	0.0	1675.3	-0.2	-40039.7	1.8	435354.7
	0.0	1727.2	1.5	-39366.6	-15.4	435213.2
	0.0	1703.2	0.7	-39695.4	-7.0	435326.2
	0.0	1755.2	2.4	-39022.3	-24.3	435184.7
	0.0	1590.6	-3.1	-41141.4	30.1	435597.0
	0.0	1642.6	-1.3	-40468.4	12.8	435455.4
	0.0	1684.8	0.1	-39922.0	-1.1	435379.1
	0.0	1736.7	1.8	-39248.9	-18.4	435237.6
	0.0	1572.2	-3.7	-41368.0	36.0	435649.8
	0.0	1624.2	-1.9	-40695.0	18.7	435508.3
	0.0	1600.1	-2.8	-41023.7	27.2	435621.4
	0.0	1652.1	-1.0	-40350.7	9.9	435479.8
	0.0	1487.6	-6.5	-42469.8	64.2	435892.1
	0.0	1539.5	-4.8	-41796.8	47.0	435750.6
335.	0.0	-1961.2	3.5	-29660.1	-622.2	406052.5
	0.0	-1913.5	5.2	-28927.0	-930.5	414314.6
	0.0	-2064.2	-0.2	-31232.0	41.0	388126.0
	0.0	-2016.5	1.5	-30498.9	-267.2	396388.1
	0.0	-2039.1	0.7	-30862.3	-117.7	392589.4
	0.0	-1991.4	2.4	-30129.2	-426.0	400851.5
	0.0	-2142.1	-3.1	-32434.1	545.5	374662.9
	0.0	-2094.5	-1.3	-31701.1	237.2	382925.1
	0.0	-2056.7	0.1	-31121.1	-11.8	389627.7
	0.0	-2009.0	1.8	-30388.0	-320.1	397889.8
	0.0	-2159.7	-3.7	-32693.0	651.4	371701.2
	0.0	-2112.0	-1.9	-31959.9	343.1	379963.3
	0.0	-2134.6	-2.8	-32323.3	492.6	376164.6
	0.0	-2086.9	-1.0	-31590.2	184.4	384426.8
	0.0	-2237.6	-6.5	-33895.1	1155.9	358238.1
	0.0	-2189.9	-4.8	-33162.1	847.6	366500.3
Asta	80	nod	78	77		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4738.8	3.4	132643.3	519.8	-139503.2
	0.0	4794.0	5.1	135780.5	778.6	-145826.1
	0.0	4620.0	-0.2	125894.8	-38.3	-125828.3
	0.0	4675.2	1.4	129032.0	220.5	-132151.1
	0.0	4648.5	0.6	127509.9	97.4	-129191.4
	0.0	4703.7	2.3	130647.1	356.2	-135514.2
	0.0	4529.7	-3.0	120761.5	-460.7	-115516.4
	0.0	4584.9	-1.3	123898.6	-201.9	-121839.3
	0.0	4626.8	0.1	126330.7	9.6	-126887.5
	0.0	4682.0	1.7	129467.8	268.4	-133210.3
	0.0	4508.0	-3.6	119582.2	-548.5	-113212.5
	0.0	4563.2	-1.9	122719.4	-289.7	-119535.4

	0.0	4536.5	-2.7	121197.3	-412.8	-116575.6
	0.0	4591.7	-1.0	124334.5	-154.0	-122898.4
	0.0	4417.7	-6.3	114448.8	-970.9	-102900.7
155.	0.0	4472.9	-4.6	117586.0	-712.1	-109223.5
	0.0	417.2	3.4	141102.9	-2.7	267396.6
	0.0	468.3	5.0	143996.6	-3.8	269249.3
	0.0	306.9	-0.2	134884.7	-0.6	263462.3
	0.0	358.1	1.4	137778.3	-1.7	265314.9
	0.0	333.5	0.6	136364.3	-0.5	264332.3
	0.0	384.7	2.3	139258.0	-1.6	266184.9
	0.0	223.2	-3.0	130146.1	1.5	260397.9
	0.0	274.4	-1.3	133039.7	0.5	262250.5
	0.0	313.8	0.1	135260.0	0.3	263441.0
	0.0	365.0	1.7	138153.6	-0.8	265293.6
	0.0	203.5	-3.6	129041.7	2.3	259506.7
	0.0	254.7	-1.9	131935.4	1.2	261359.3
	0.0	230.2	-2.7	130521.4	2.4	260376.6
	0.0	281.3	-1.0	133415.0	1.3	262229.2
	0.0	119.9	-6.3	124303.1	4.5	256442.3
310.	0.0	171.0	-4.6	127196.8	3.4	258294.9
	0.0	-4542.7	3.4	154182.6	-525.2	-43017.2
	0.0	-4490.6	5.1	156927.5	-786.1	-33206.1
	0.0	-4655.3	-0.2	148290.9	36.9	-64130.7
	0.0	-4603.2	1.4	151035.8	-224.0	-54319.5
	0.0	-4627.6	0.6	149683.6	-98.4	-59080.4
	0.0	-4575.6	2.3	152428.4	-359.3	-49269.3
	0.0	-4740.2	-3.0	143791.9	463.7	-80193.8
	0.0	-4688.2	-1.3	146536.8	202.8	-70382.7
	0.0	-4646.6	0.1	148618.0	-9.0	-62960.8
	0.0	-4594.5	1.7	151362.9	-270.0	-53149.7
	0.0	-4759.2	-3.6	142726.3	553.1	-84074.2
	0.0	-4707.1	-1.9	145471.2	292.1	-74263.1
	0.0	-4731.5	-2.7	144118.9	417.7	-79024.0
	0.0	-4679.5	-1.0	146863.8	156.8	-69212.9
	0.0	-4844.1	-6.3	138227.3	979.8	-100137.4
	0.0	-4792.1	-4.6	140972.2	718.9	-90326.3
Asta	81	nod	17	78		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	3452.2	2.7	1315.3	375.6	-181742.5
	0.0	3523.9	4.0	-693.8	562.5	-196249.8
	0.0	3298.0	-0.2	5709.3	-26.9	-150459.4
	0.0	3369.7	1.1	3700.3	159.9	-164966.6
	0.0	3334.9	0.5	4559.7	70.3	-158031.9
	0.0	3406.6	1.8	2550.7	257.1	-172539.1
	0.0	3180.6	-2.4	8953.8	-332.3	-126748.8
	0.0	3252.3	-1.0	6944.7	-145.5	-141256.0
	0.0	3306.6	0.1	5126.4	6.9	-152500.7
	0.0	3378.3	1.4	3117.4	193.8	-167008.0
	0.0	3152.4	-2.8	9520.5	-395.7	-121217.6
	0.0	3224.0	-1.5	7511.4	-208.8	-135724.9
	0.0	3189.3	-2.1	8370.9	-298.5	-128790.1
	0.0	3261.0	-0.8	6361.8	-111.6	-143297.4
	0.0	3035.0	-5.0	12764.9	-701.1	-97507.0
157.	0.0	3106.7	-3.7	10755.9	-514.2	-112014.2
	0.0	120.6	2.7	7185.8	-47.0	105516.7
	0.0	180.9	4.0	4992.5	-70.5	101375.0
	0.0	-9.0	-0.2	11978.7	4.0	114497.7
	0.0	51.3	1.1	9785.5	-19.5	110355.9
	0.0	22.0	0.5	10730.2	-8.9	112255.3
	0.0	82.2	1.8	8536.9	-32.4	108113.5
	0.0	-107.6	-2.4	15523.2	42.1	121236.2
	0.0	-47.4	-1.0	13329.9	18.6	117094.5
	0.0	-2.2	0.1	11359.5	-1.0	113669.2
	0.0	58.1	1.4	9166.3	-24.5	109527.5
	0.0	-131.8	-2.8	16152.5	50.0	122650.1
	0.0	-71.5	-1.5	13959.3	26.5	118508.4
	0.0	-100.8	-2.1	14904.0	37.1	120407.7
	0.0	-40.6	-0.8	12710.7	13.6	116266.0
	0.0	-230.4	-5.0	19696.9	88.1	129388.7
	0.0	-170.2	-3.7	17503.7	64.6	125247.0
314.	0.0	-3721.2	2.7	13297.9	-470.2	-170529.8
	0.0	-3669.2	4.0	10846.7	-704.4	-165914.8
	0.0	-3833.1	-0.2	18650.9	35.0	-180383.6
	0.0	-3781.1	1.1	16199.7	-199.2	-175768.6
	0.0	-3806.4	0.5	17261.4	-88.1	-178135.1
	0.0	-3754.4	1.8	14810.2	-322.3	-173520.0
	0.0	-3918.3	-2.4	22614.4	417.1	-187988.9
	0.0	-3866.3	-1.0	20163.2	182.9	-183373.8
	0.0	-3827.4	0.1	17974.6	-8.9	-180247.6
	0.0	-3775.4	1.4	15523.4	-243.1	-175632.6
	0.0	-3939.2	-2.8	23327.6	496.3	-190101.4
	0.0	-3887.2	-1.5	20876.4	262.1	-185486.4
	0.0	-3912.6	-2.1	21938.1	373.3	-187852.9
	0.0	-3860.6	-0.8	19486.9	139.1	-183237.9
	0.0	-4024.4	-5.0	27291.1	878.5	-197706.7
	0.0	-3972.4	-3.7	24839.9	644.3	-193091.7
Asta	82	nod	38	17		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	5923.3	3.5	-108402.7	410.8	-744636.7

	0.0	5991.3	5.2	-107940.2	615.2	-748424.9
	0.0	5776.2	-0.2	-109415.6	-29.1	-736433.4
	0.0	5844.2	1.5	-108953.0	175.3	-740221.6
	0.0	5812.4	0.6	-109147.5	76.1	-738475.6
	0.0	5880.4	2.4	-108685.0	280.5	-742263.8
	0.0	5665.3	-3.1	-110160.4	-363.8	-730272.3
	0.0	5733.3	-1.4	-109697.8	-159.5	-734060.5
	0.0	5789.0	0.1	-109164.2	7.9	-737282.0
	0.0	5857.0	1.8	-108701.6	212.3	-741070.2
	0.0	5641.9	-3.7	-110177.0	-432.0	-729078.7
	0.0	5710.0	-1.9	-109714.4	-227.7	-732866.9
	0.0	5678.1	-2.8	-109909.0	-326.8	-731121.0
	0.0	5746.1	-1.0	-109446.4	-122.5	-734909.1
	0.0	5531.0	-6.5	-110921.8	-766.8	-722917.6
	0.0	5599.0	-4.8	-110459.2	-562.4	-726705.8
110.	0.0	3396.7	3.5	-101656.4	26.1	-233103.5
	0.0	3462.6	5.2	-101142.8	39.2	-229499.8
	0.0	3254.4	-0.2	-102778.6	-2.0	-240880.2
	0.0	3320.2	1.5	-102264.9	11.1	-237276.4
	0.0	3289.4	0.6	-102485.0	4.6	-238990.6
	0.0	3355.3	2.4	-101971.4	17.7	-235386.9
	0.0	3147.1	-3.1	-103607.2	-23.5	-246767.3
	0.0	3212.9	-1.4	-103093.6	-10.4	-243163.6
	0.0	3266.9	0.1	-102524.2	0.7	-240333.5
	0.0	3332.7	1.8	-102010.6	13.7	-236729.8
	0.0	3124.5	-3.7	-103646.4	-27.4	-248110.2
	0.0	3190.4	-1.9	-103132.8	-14.4	-244506.5
	0.0	3159.6	-2.8	-103352.9	-20.8	-246220.6
	0.0	3225.4	-1.0	-102839.2	-7.8	-242616.9
	0.0	3017.2	-6.5	-104475.0	-48.9	-253997.3
220.	0.0	3083.1	-4.8	-103961.4	-35.9	-250393.6
	0.0	1106.4	3.5	-96602.9	-358.5	12298.7
	0.0	1167.3	5.2	-96029.7	-536.7	22912.7
	0.0	974.7	-0.2	-97853.1	25.1	-10633.3
	0.0	1035.6	1.5	-97279.9	-153.1	-19.3
	0.0	1007.1	0.6	-97529.2	-66.9	-5014.0
	0.0	1068.0	2.4	-96956.0	-245.1	5600.0
	0.0	875.5	-3.1	-98779.4	316.8	-27946.0
	0.0	936.4	-1.4	-98206.2	138.6	-17332.0
	0.0	986.3	0.1	-97592.1	-6.5	-8755.4
	0.0	1047.2	1.8	-97018.9	-184.8	1858.6
	0.0	854.7	-3.7	-98842.3	377.1	-31687.4
	0.0	915.6	-1.9	-98269.1	198.9	-21073.4
	0.0	887.1	-2.8	-98518.4	285.1	-26068.0
	0.0	948.0	-1.0	-97945.2	106.9	-15454.1
	0.0	755.5	-6.5	-99768.6	668.7	-49000.0
	0.0	816.4	-4.8	-99195.4	490.5	-38386.0
Asta	83	nod1	51	38	MYT	MZZ
PROGR.	NORM	TYT	TZZ	TORS		
0.	0.0	3260.4	2.9	301240.3	419.8	-167690.7
	0.0	3316.6	4.3	301377.3	627.9	-173551.3
	0.0	3138.8	-0.2	300954.8	-28.5	-154988.2
	0.0	3194.9	1.2	301091.9	179.6	-160848.8
	0.0	3169.1	0.5	301008.8	78.9	-158158.0
	0.0	3225.3	2.0	301145.8	287.0	-164018.6
	0.0	3047.5	-2.5	300723.3	-369.4	-145455.5
	0.0	3103.6	-1.1	300860.4	-161.3	-151316.1
	0.0	3152.1	0.0	300917.4	6.7	-156385.2
	0.0	3208.2	1.5	301054.5	214.9	-162245.7
	0.0	3030.5	-3.0	300632.0	-441.6	-143682.7
	0.0	3086.6	-1.6	300769.0	-233.4	-149543.3
	0.0	3060.8	-2.3	300686.0	-334.2	-146852.5
	0.0	3116.9	-0.9	300823.0	-126.0	-152713.0
	0.0	2939.2	-5.4	300400.5	-782.5	-134150.0
	0.0	2995.3	-3.9	300537.6	-574.3	-140010.6
145.	0.0	-122.8	2.9	298396.0	3.1	60395.4
	0.0	-66.4	4.3	298582.1	4.4	62693.5
	0.0	-244.9	-0.2	298005.6	0.3	55420.9
	0.0	-188.6	1.2	298191.6	1.6	57718.9
	0.0	-214.5	0.5	298084.1	1.0	56653.3
	0.0	-158.2	2.0	298270.1	2.3	58951.3
	0.0	-336.7	-2.5	297693.7	-1.8	51678.7
	0.0	-280.3	-1.1	297879.7	-0.5	53976.8
	0.0	-231.9	0.0	297967.1	-0.5	55930.8
	0.0	-175.5	1.5	298153.1	0.8	58228.9
	0.0	-354.0	-3.0	297576.6	-3.3	50956.3
	0.0	-297.6	-1.6	297762.7	-2.0	53254.3
	0.0	-323.6	-2.3	297655.1	-2.5	52188.7
	0.0	-267.2	-0.9	297841.1	-1.3	54486.7
	0.0	-445.7	-5.4	297264.7	-5.4	47214.1
	0.0	-389.4	-3.9	297450.7	-4.1	49512.2
290.	0.0	-3531.2	2.9	304134.8	-413.7	-204587.6
	0.0	-3474.5	4.3	304375.2	-619.3	-194065.7
	0.0	-3654.0	-0.2	303628.1	29.0	-227378.2
	0.0	-3597.3	1.2	303868.5	-176.6	-216856.3
	0.0	-3623.4	0.5	303733.4	-76.9	-221712.2
	0.0	-3566.8	2.0	303973.8	-282.5	-211190.2
	0.0	-3746.3	-2.5	303226.7	365.8	-244502.8
	0.0	-3689.6	-1.1	303467.1	160.2	-233980.9
	0.0	-3640.9	0.0	303587.3	-7.6	-224970.0

	0.0	-3584.2	1.5	303827.7	-213.2	-214448.1
	0.0	-3763.7	-3.0	303080.6	435.1	-247760.6
	0.0	-3707.0	-1.6	303321.0	229.4	-237238.7
	0.0	-3733.2	-2.3	303185.9	329.2	-242094.6
	0.0	-3676.5	-0.9	303426.3	123.6	-231572.7
	0.0	-3856.0	-5.4	302679.2	771.9	-264885.2
	0.0	-3799.3	-3.9	302919.6	566.2	-254363.3
Asta	84	nod1	66	51		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2908.3	2.8	-166550.4	349.5	-242673.7
	0.0	2954.7	4.2	-165210.8	523.2	-249694.8
	0.0	2807.8	-0.2	-169445.6	-24.7	-227463.4
	0.0	2854.2	1.2	-168106.0	149.0	-234484.5
	0.0	2832.8	0.5	-168736.3	65.3	-231247.5
	0.0	2879.2	1.9	-167396.7	239.0	-238268.5
	0.0	2732.3	-2.5	-171631.5	-308.9	-216037.1
	0.0	2778.7	-1.1	-170291.9	-135.2	-223058.2
	0.0	2817.9	0.1	-169198.5	7.0	-229146.3
	0.0	2864.3	1.4	-167858.9	180.7	-236167.3
	0.0	2717.4	-2.9	-172093.7	-367.2	-213935.9
	0.0	2763.8	-1.6	-170754.1	-193.4	-220957.0
	0.0	2742.4	-2.2	-171384.5	-277.1	-217720.0
	0.0	2788.8	-0.8	-170044.9	-103.4	-224741.0
	0.0	2641.9	-5.2	-174279.7	-651.3	-202509.7
	0.0	2688.3	-3.8	-172940.1	-477.6	-209530.7
135.	0.0	-40.1	2.8	-166910.7	-28.7	-47051.7
	0.0	6.3	4.2	-165576.5	-42.7	-47806.4
	0.0	-140.5	-0.2	-169793.6	1.5	-45406.3
	0.0	-94.1	1.2	-168459.4	-12.6	-46161.0
	0.0	-115.7	0.5	-169088.1	-5.7	-45829.1
	0.0	-69.3	1.9	-167753.9	-19.7	-46583.8
	0.0	-216.1	-2.5	-171971.1	24.5	-44183.7
	0.0	-169.7	-1.1	-170636.9	10.5	-44938.4
	0.0	-130.9	0.1	-169555.6	0.2	-45749.4
	0.0	-84.5	1.4	-168221.4	-13.8	-46504.1
	0.0	-231.3	-2.9	-172438.6	30.4	-44104.0
	0.0	-184.9	-1.6	-171104.4	16.4	-44858.7
	0.0	-206.4	-2.2	-171733.1	23.3	-44526.8
	0.0	-160.0	-0.8	-170398.9	9.3	-45281.5
	0.0	-306.8	-5.2	-174616.1	53.4	-42881.4
	0.0	-260.4	-3.8	-173281.9	39.4	-43636.1
270.	0.0	-3128.6	2.8	-171433.0	-407.1	-259810.7
	0.0	-3081.7	4.2	-170071.0	-608.9	-254271.4
	0.0	-3230.0	-0.2	-174375.6	27.7	-271784.7
	0.0	-3183.1	1.2	-173013.5	-174.2	-266245.5
	0.0	-3205.0	0.5	-173656.3	-76.6	-268840.5
	0.0	-3158.1	1.9	-172294.3	-278.5	-263301.2
	0.0	-3306.4	-2.5	-176598.9	358.1	-280814.5
	0.0	-3259.5	-1.1	-175236.8	156.2	-275275.2
	0.0	-3220.7	0.1	-174140.8	-6.6	-270857.3
	0.0	-3173.8	1.4	-172778.7	-208.4	-265318.0
	0.0	-3322.2	-2.9	-177083.4	428.2	-282831.3
	0.0	-3275.3	-1.6	-175721.3	226.3	-277292.0
	0.0	-3297.1	-2.2	-176364.1	323.9	-279887.1
	0.0	-3250.2	-0.8	-175002.0	122.0	-274347.8
	0.0	-3398.6	-5.2	-179306.7	758.6	-291861.1
	0.0	-3351.7	-3.8	-177944.6	556.7	-286321.8
Asta	85	nod1	42	66		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	1496.4	2.4	-41842.4	330.9	-112527.2
	0.0	1551.1	3.6	-40528.6	496.2	-120880.1
	0.0	1378.1	-0.2	-44670.6	-25.1	-94460.7
	0.0	1432.8	1.0	-43356.8	140.3	-102813.6
	0.0	1407.3	0.4	-43993.0	59.9	-98929.4
	0.0	1462.0	1.6	-42679.3	225.3	-107282.3
	0.0	1289.0	-2.1	-46821.2	-296.0	-80862.9
	0.0	1343.7	-0.9	-45507.5	-130.6	-89215.8
	0.0	1386.4	0.1	-44422.2	8.0	-95733.6
	0.0	1441.2	1.3	-43108.5	173.4	-104086.4
	0.0	1268.1	-2.5	-47250.4	-347.9	-77667.1
	0.0	1322.8	-1.3	-45936.7	-182.5	-86020.0
	0.0	1297.4	-1.9	-46572.9	-262.9	-82135.8
	0.0	1352.1	-0.7	-45259.2	-97.5	-90488.7
	0.0	1179.0	-4.5	-49401.1	-618.8	-64069.3
	0.0	1233.7	-3.3	-48087.4	-453.5	-72422.2
138.	0.0	-892.3	2.4	-38538.8	1.5	-66291.6
	0.0	-836.7	3.6	-37295.1	2.5	-67048.9
	0.0	-1012.6	-0.2	-41215.5	-0.4	-64653.5
	0.0	-957.0	1.0	-39971.8	0.5	-65410.8
	0.0	-982.9	0.4	-40575.3	-0.2	-65062.5
	0.0	-927.2	1.6	-39331.6	0.8	-65819.9
	0.0	-1103.2	-2.1	-43252.1	-2.1	-63424.5
	0.0	-1047.5	-0.9	-42008.3	-1.2	-64181.8
	0.0	-1003.9	0.1	-40988.1	0.1	-64751.5
	0.0	-948.3	1.3	-39744.4	1.1	-65508.8
	0.0	-1124.2	-2.5	-43664.9	-1.8	-63113.4
	0.0	-1068.6	-1.3	-42421.1	-0.8	-63870.8
	0.0	-1094.5	-1.9	-43024.6	-1.6	-63522.5
	0.0	-1038.9	-0.7	-41780.9	-0.6	-64279.8

	0.0	-1214.8	-4.5	-45701.4	-3.5	-61884.4
	0.0	-1159.2	-3.3	-44457.6	-2.5	-62641.8
275.	0.0	-3653.8	2.4	-36232.0	-328.2	-375248.5
	0.0	-3597.2	3.6	-35026.1	-491.6	-368288.1
	0.0	-3776.1	-0.2	-38826.6	24.0	-390299.1
	0.0	-3719.6	1.0	-37620.7	-139.5	-383338.8
	0.0	-3746.0	0.4	-38207.0	-60.6	-386590.1
	0.0	-3689.4	1.6	-37001.1	-224.1	-379629.8
	0.0	-3868.3	-2.1	-40801.6	291.5	-401640.7
	0.0	-3811.7	-0.9	-39595.7	128.0	-394680.4
	0.0	-3767.5	0.1	-38614.1	-7.4	-389208.6
	0.0	-3711.0	1.3	-37408.2	-170.9	-382248.3
	0.0	-3889.9	-2.5	-41208.7	344.7	-404259.3
	0.0	-3833.3	-1.3	-40002.8	181.2	-397299.0
	0.0	-3859.7	-1.9	-40589.1	260.1	-400550.3
	0.0	-3803.1	-0.7	-39383.2	96.6	-393589.9
	0.0	-3982.0	-4.5	-43183.7	612.2	-415600.9
	0.0	-3925.5	-3.3	-41977.8	448.7	-408640.6
Asta	86	nod	79	42		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4401.8	1.5	-8365.8	476.1	172006.0
	0.0	4444.7	2.2	-8857.6	713.1	152352.0
	0.0	4309.2	-0.1	-7289.7	-34.0	214544.8
	0.0	4352.1	0.6	-7781.5	203.0	194890.8
	0.0	4331.7	0.3	-7577.2	87.7	204029.5
	0.0	4374.6	1.0	-8069.0	324.7	184375.5
	0.0	4239.0	-1.3	-6501.0	-422.4	246568.3
	0.0	4281.9	-0.6	-6992.9	-185.4	226914.3
	0.0	4319.4	0.0	-7362.1	9.6	210438.4
	0.0	4362.4	0.8	-7853.9	246.6	190784.4
	0.0	4226.8	-1.5	-6285.9	-500.5	252977.1
	0.0	4269.7	-0.8	-6777.8	-263.5	233323.1
	0.0	4249.3	-1.2	-6573.4	-378.8	242461.8
	0.0	4292.2	-0.4	-7065.2	-141.8	222807.9
	0.0	4156.6	-2.7	-5497.3	-888.9	285000.6
	0.0	4199.5	-2.0	-5989.1	-651.9	265346.6
285.	0.0	-529.2	1.4	-688.8	64.8	664636.1
	0.0	-476.9	2.1	-1269.2	96.9	659259.8
	0.0	-642.4	-0.1	577.0	-4.3	676299.1
	0.0	-590.1	0.6	-3.4	27.8	670922.8
	0.0	-614.5	0.3	246.4	12.2	673368.4
	0.0	-562.1	1.0	-334.0	44.3	667992.1
	0.0	-727.7	-1.3	1512.1	-56.9	685031.4
	0.0	-675.4	-0.6	931.7	-24.8	679655.0
	0.0	-631.2	0.0	470.9	1.0	675368.7
	0.0	-578.9	0.7	-109.5	33.1	669992.3
	0.0	-744.4	-1.5	1736.7	-68.1	687031.7
	0.0	-692.1	-0.8	1156.3	-36.0	681655.3
	0.0	-716.4	-1.1	1406.1	-51.6	684101.0
	0.0	-664.1	-0.4	825.7	-19.5	678724.6
	0.0	-829.6	-2.6	2671.8	-120.7	695764.0
	0.0	-777.3	-1.9	2091.4	-88.6	690387.6
570.	0.0	-4559.4	1.4	6914.7	-336.8	-46992.5
	0.0	-4503.2	2.1	6183.9	-504.8	-37004.7
	0.0	-4681.2	-0.1	8504.9	24.8	-68585.1
	0.0	-4624.9	0.6	7774.1	-143.2	-58597.3
	0.0	-4651.1	0.3	8096.0	-61.4	-63284.7
	0.0	-4594.8	1.0	7365.1	-229.4	-53297.0
	0.0	-4772.8	-1.3	9686.2	300.1	-84877.3
	0.0	-4716.6	-0.6	8955.4	132.1	-74889.5
	0.0	-4668.9	0.0	8354.3	-7.4	-66210.3
	0.0	-4612.7	0.7	7623.5	-175.4	-56222.6
	0.0	-4790.7	-1.5	9944.5	354.1	-87802.9
	0.0	-4734.4	-0.8	9213.7	186.1	-77815.1
	0.0	-4760.6	-1.1	9535.6	267.9	-82502.5
	0.0	-4704.3	-0.4	8804.7	99.9	-72514.8
	0.0	-4882.3	-2.6	11125.8	629.5	-104095.1
	0.0	-4826.1	-1.9	10395.0	461.5	-94107.3
Asta	87	nod	79	80		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2399.1	4.4	161549.2	747.0	74100.0
	0.0	2341.3	6.6	156023.8	1119.0	82985.6
	0.0	2524.0	-0.3	173527.2	-53.9	54925.7
	0.0	2466.2	1.9	168001.9	318.0	63811.3
	0.0	2493.3	0.8	170555.1	138.3	59566.0
	0.0	2435.5	3.0	165029.8	510.2	68451.6
	0.0	2618.3	-3.9	182533.2	-662.7	40391.7
	0.0	2560.5	-1.7	177007.8	-290.8	49277.3
	0.0	2511.7	0.1	172293.7	14.4	57053.7
	0.0	2454.0	2.3	166768.4	386.3	65939.3
	0.0	2636.7	-4.6	184271.7	-786.5	37879.4
	0.0	2578.9	-2.4	178746.4	-414.6	46765.0
	0.0	2606.0	-3.5	181299.7	-594.3	42519.7
	0.0	2548.2	-1.3	175774.4	-222.4	51405.3
	0.0	2730.9	-8.2	193277.7	-1395.3	23345.4
	0.0	2673.2	-6.0	187752.4	-1023.4	32231.0
162.	0.0	-1517.3	4.4	181026.2	40.7	152538.8
	0.0	-1556.9	6.5	175078.2	60.5	153578.1
	0.0	-1431.8	-0.3	193920.6	-1.6	150317.7

	0.0	-1471.4	1.9	187972.6	18.2	151356.9
	0.0	-1452.5	0.8	190719.7	7.4	150815.9
	0.0	-1492.1	3.0	184771.6	27.2	151855.2
	0.0	-1367.0	-3.9	203614.1	-34.8	148594.8
	0.0	-1406.6	-1.7	197666.1	-15.0	149634.0
	0.0	-1441.0	0.1	192604.9	0.8	150692.4
	0.0	-1480.7	2.3	186656.9	20.6	151731.6
	0.0	-1355.5	-4.6	205499.4	-41.5	148471.2
	0.0	-1395.2	-2.4	199551.4	-21.7	149510.5
	0.0	-1376.2	-3.5	202298.4	-32.4	148969.5
	0.0	-1415.9	-1.3	196350.4	-12.6	150008.7
	0.0	-1290.8	-8.2	215192.9	-74.7	146748.3
	0.0	-1330.4	-6.0	209244.8	-54.9	147787.5
323.	0.0	-6016.1	4.4	206940.6	-665.1	-448550.5
	0.0	-6041.0	6.5	200358.4	-997.1	-452680.8
	0.0	-5962.4	-0.3	221210.0	50.7	-439629.6
	0.0	-5987.3	1.9	214627.7	-281.3	-443759.9
	0.0	-5975.0	0.8	217666.3	-123.3	-441802.1
	0.0	-6000.0	3.0	211084.0	-455.3	-445932.5
	0.0	-5921.3	-3.9	231935.7	592.5	-432881.2
	0.0	-5946.3	-1.7	225353.4	260.5	-437011.6
	0.0	-5968.9	0.1	219765.4	-12.8	-440520.8
	0.0	-5993.9	2.3	213183.1	-344.8	-444651.2
	0.0	-5915.2	-4.6	234034.7	703.0	-431599.9
	0.0	-5940.1	-2.4	227452.5	371.0	-435730.3
	0.0	-5927.9	-3.5	230491.0	529.0	-433772.5
	0.0	-5952.8	-1.3	223908.8	197.0	-437902.8
	0.0	-5874.2	-8.2	244760.4	1244.8	-424851.6
	0.0	-5899.1	-6.0	238178.2	912.8	-428981.9
Asta	88	nod	80	81		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	5023.4	3.9	52820.8	628.7	-402637.4
	0.0	4979.9	5.9	54171.2	942.8	-397199.9
	0.0	5117.3	-0.3	49913.9	-49.8	-414339.6
	0.0	5073.8	1.6	51264.2	264.4	-408902.1
	0.0	5094.6	0.7	50636.9	116.9	-411567.3
	0.0	5051.1	2.7	51987.2	431.1	-406129.8
	0.0	5188.5	-3.5	47729.9	-561.5	-423269.5
	0.0	5145.0	-1.5	49080.3	-247.4	-417832.0
	0.0	5106.8	0.1	50088.6	12.1	-412874.5
	0.0	5063.3	2.0	51439.0	326.3	-407437.0
	0.0	5200.7	-4.2	47181.7	-666.3	-424576.7
	0.0	5157.2	-2.2	48532.0	-352.2	-419139.2
	0.0	5178.1	-3.1	47904.7	-499.6	-421804.4
	0.0	5134.5	-1.2	49255.1	-185.5	-416366.9
	0.0	5272.0	-7.3	44997.8	-1178.1	-433506.5
	0.0	5228.4	-5.4	46348.1	-863.9	-428069.0
162.	0.0	46.6	3.9	83448.4	-4.2	12411.6
	0.0	14.7	5.9	84069.6	-6.1	11806.9
	0.0	115.1	-0.3	82122.4	0.7	13735.3
	0.0	83.3	1.6	82743.6	-1.2	13130.5
	0.0	98.8	0.7	82451.7	-1.0	13380.4
	0.0	66.9	2.7	83072.9	-3.0	12775.7
	0.0	167.3	-3.5	81125.7	3.9	14704.0
	0.0	135.5	-1.5	81746.9	1.9	14099.3
	0.0	107.1	0.1	82143.9	-0.1	13722.2
	0.0	75.2	2.0	82765.1	-2.1	13117.4
	0.0	175.6	-4.1	80817.9	4.8	15045.8
	0.0	143.8	-2.2	81439.1	2.8	14441.1
	0.0	159.3	-3.1	81147.1	3.0	14690.9
	0.0	127.4	-1.2	81768.3	1.0	14086.2
	0.0	227.8	-7.3	79821.1	7.9	16014.6
	0.0	196.0	-5.4	80442.3	5.9	15409.8
323.	0.0	-5236.7	3.9	117021.2	-637.0	-404093.3
	0.0	-5260.9	5.9	116935.3	-955.0	-409181.0
	0.0	-5184.8	-0.3	117231.7	51.2	-393123.3
	0.0	-5209.0	1.6	117145.9	-266.9	-398211.0
	0.0	-5197.0	0.7	117176.2	-118.9	-395761.2
	0.0	-5221.2	2.7	117090.3	-437.0	-400848.9
	0.0	-5145.0	-3.5	117386.7	569.2	-384791.1
	0.0	-5169.2	-1.5	117300.9	251.2	-389878.8
	0.0	-5191.1	0.1	117143.3	-12.3	-394297.1
	0.0	-5215.3	2.0	117057.5	-330.4	-399384.8
	0.0	-5139.1	-4.2	117353.9	675.8	-383327.1
	0.0	-5163.3	-2.2	117268.0	357.7	-388414.8
	0.0	-5151.3	-3.1	117298.3	505.7	-385965.0
	0.0	-5175.5	-1.2	117212.5	187.7	-391052.7
	0.0	-5099.4	-7.3	117508.9	1193.9	-374994.9
	0.0	-5123.6	-5.4	117423.0	875.8	-380082.6
Asta	89	nod	81	82		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	5524.8	4.0	-8212.0	641.1	-376539.6
	0.0	5491.9	6.0	-3991.0	961.1	-372194.4
	0.0	5595.5	-0.3	-17329.3	-51.5	-385888.6
	0.0	5562.7	1.7	-13108.2	268.5	-381543.3
	0.0	5578.6	0.7	-15073.8	119.7	-383679.9
	0.0	5545.8	2.7	-10852.8	439.8	-379334.7
	0.0	5649.3	-3.5	-24191.0	-572.9	-393028.9
	0.0	5616.5	-1.6	-19970.0	-252.8	-388683.6

	0.0	5587.3	0.1	-16563.0	12.7	-384753.4
	0.0	5554.5	2.1	-12342.0	332.7	-380408.1
	0.0	5658.0	-4.2	-25680.2	-679.9	-394102.4
	0.0	5625.2	-2.2	-21459.2	-359.9	-389757.1
	0.0	5641.1	-3.1	-23424.8	-508.7	-391893.7
	0.0	5608.3	-1.2	-19203.7	-188.6	-387548.4
	0.0	5711.8	-7.4	-32542.0	-1201.3	-401242.7
	0.0	5679.0	-5.5	-28321.0	-881.2	-396897.4
162.	0.0	77.4	4.0	27343.9	0.4	77720.6
	0.0	50.1	5.9	30933.0	0.4	77242.8
	0.0	136.1	-0.3	19598.9	-0.5	78761.8
	0.0	108.8	1.7	23188.0	-0.5	78284.0
	0.0	122.1	0.7	21512.1	0.5	78495.0
	0.0	94.9	2.7	25101.2	0.5	78017.2
	0.0	180.8	-3.5	13767.1	-0.4	79536.2
	0.0	153.6	-1.6	17356.1	-0.4	79058.4
	0.0	129.2	0.1	20225.6	-0.2	78685.5
	0.0	101.9	2.1	23814.7	-0.2	78207.7
	0.0	187.9	-4.2	12480.6	-1.0	79726.7
	0.0	160.6	-2.2	16069.6	-1.0	79248.9
	0.0	173.9	-3.1	14393.8	-0.1	79459.9
	0.0	146.7	-1.2	17982.9	-0.1	78982.1
	0.0	232.6	-7.4	6648.7	-0.9	80501.1
	0.0	205.4	-5.4	10237.8	-0.9	80023.3
323.	0.0	-5436.0	4.0	63872.3	-641.0	-355043.5
	0.0	-5460.3	6.0	66957.1	-961.0	-359667.6
	0.0	-5383.5	-0.3	57224.0	50.8	-345079.1
	0.0	-5407.9	1.7	60308.7	-269.2	-349703.2
	0.0	-5395.9	0.7	58863.1	-119.4	-347454.3
	0.0	-5420.2	2.7	61947.8	-439.5	-352078.5
	0.0	-5343.4	-3.5	52214.7	572.4	-337489.9
	0.0	-5367.8	-1.6	55299.5	252.3	-342114.0
	0.0	-5389.7	0.1	57733.4	-13.2	-346206.2
	0.0	-5414.1	2.1	60818.2	-333.3	-350830.3
	0.0	-5337.2	-4.2	51085.1	678.5	-336241.7
	0.0	-5361.6	-2.2	54169.8	358.5	-340865.9
	0.0	-5349.6	-3.1	52724.2	508.3	-338617.0
	0.0	-5374.0	-1.2	55808.9	188.3	-343241.1
	0.0	-5297.1	-7.4	46075.9	1200.1	-328652.6
	0.0	-5321.5	-5.5	49160.6	880.1	-333276.7
Asta	90	nod1	82	83		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	5401.5	4.0	-63469.7	639.8	-336678.4
	0.0	5372.8	5.9	-58615.2	960.0	-331915.3
	0.0	5463.3	-0.3	-73928.5	-50.1	-346918.7
	0.0	5434.6	1.7	-69074.0	270.1	-342155.6
	0.0	5448.6	0.7	-71368.8	117.7	-344498.1
	0.0	5419.9	2.7	-66514.4	437.9	-339735.0
	0.0	5510.4	-3.5	-81827.6	-572.2	-354738.4
	0.0	5481.8	-1.6	-76973.1	-252.0	-349975.3
	0.0	5456.1	0.1	-73043.3	13.4	-345777.9
	0.0	5427.4	2.1	-68188.8	333.6	-341014.9
	0.0	5517.9	-4.2	-83502.0	-676.5	-356018.2
	0.0	5489.2	-2.2	-78647.6	-356.3	-351255.2
	0.0	5503.2	-3.2	-80942.4	-508.7	-353597.6
	0.0	5474.5	-1.2	-76088.0	-188.5	-348834.6
	0.0	5565.0	-7.4	-91401.2	-1198.6	-363837.9
	0.0	5536.3	-5.4	-86546.7	-878.4	-359074.9
162.	0.0	-105.3	3.9	-26934.0	2.3	90914.6
	0.0	-132.3	5.9	-22440.2	2.1	91202.4
	0.0	-47.2	-0.3	-36605.8	-0.8	90314.0
	0.0	-74.2	1.7	-32112.0	-1.0	90601.8
	0.0	-61.0	0.7	-34244.3	2.7	90446.5
	0.0	-88.0	2.7	-29750.5	2.6	90734.3
	0.0	-2.8	-3.5	-43916.0	-0.4	89845.8
	0.0	-29.8	-1.6	-39422.2	-0.5	90133.6
	0.0	-54.0	0.1	-35812.5	0.6	90327.9
	0.0	-81.0	2.1	-31318.7	0.4	90615.7
	0.0	4.2	-4.2	-45484.3	-2.5	89727.2
	0.0	-22.8	-2.2	-40990.5	-2.7	90015.0
	0.0	-9.6	-3.1	-43122.7	1.0	89859.7
	0.0	-36.6	-1.2	-38628.9	0.8	90147.5
	0.0	48.5	-7.4	-52794.5	-2.1	89259.0
	0.0	21.5	-5.4	-48300.7	-2.3	89546.8
323.	0.0	-5545.1	4.0	8643.8	-637.6	-367169.1
	0.0	-5573.0	5.9	12936.8	-958.1	-371286.6
	0.0	-5485.1	-0.3	-584.9	49.4	-358286.7
	0.0	-5513.0	1.7	3708.1	-271.0	-362404.2
	0.0	-5499.3	0.7	1662.6	-114.7	-360395.5
	0.0	-5527.2	2.7	5955.5	-435.2	-364513.0
	0.0	-5439.3	-3.5	-7566.2	572.4	-351513.1
	0.0	-5467.2	-1.6	-3273.2	251.9	-355630.7
	0.0	-5492.0	0.1	144.7	-13.3	-359366.5
	0.0	-5519.9	2.1	4437.7	-333.8	-363484.0
	0.0	-5432.0	-4.2	-9084.0	673.8	-350484.1
	0.0	-5459.9	-2.2	-4791.0	353.3	-354601.7
	0.0	-5446.1	-3.2	-6836.5	509.7	-352592.9
	0.0	-5474.0	-1.2	-2543.5	189.2	-356710.4
	0.0	-5386.1	-7.4	-16065.3	1196.7	-343710.6
	0.0	-5414.0	-5.4	-11772.3	876.3	-347828.1

Asta PROGR.	91 NORM	83 TZZ	84 TORS	MYT	MZZ
0.	0.0	4.0	-132907.8	638.5	-358084.0
	0.0	6.0	-129131.2	959.6	-352778.6
	0.0	-0.3	-141027.7	-47.9	-369461.9
	0.0	1.7	-137251.2	273.1	-364156.5
	0.0	0.7	-139063.2	114.0	-366785.7
	0.0	2.7	-135286.7	435.1	-361480.3
	0.0	-3.5	-147183.2	-572.4	-378163.6
	0.0	-1.6	-143406.7	-251.4	-372858.2
	0.0	0.1	-140343.2	13.3	-368312.7
	0.0	2.1	-136566.6	334.4	-363007.3
	0.0	-4.2	-148463.1	-673.1	-379690.7
	0.0	-2.2	-144686.6	-352.1	-374385.3
	0.0	-3.2	-146498.7	-511.1	-377014.5
	0.0	-1.2	-142722.1	-190.1	-371709.1
	0.0	-7.4	-154618.6	-1197.6	-388392.4
	0.0	-5.4	-150842.1	-876.6	-383087.0
162.	0.0	4.0	-99569.4	-2.1	66934.8
	0.0	5.9	-95847.6	-2.5	67552.9
	0.0	-0.3	-107560.4	-1.2	65646.0
	0.0	1.7	-103838.6	-1.6	66264.2
	0.0	0.7	-105633.8	-0.9	65940.7
	0.0	2.7	-101912.0	-1.3	66558.9
	0.0	-3.5	-113624.8	0.0	64651.9
	0.0	-1.6	-109903.0	-0.5	65270.1
	0.0	0.1	-106913.8	-0.1	65620.5
	0.0	2.1	-103192.0	-0.6	66238.6
	0.0	-4.2	-114904.8	0.8	64331.7
	0.0	-2.2	-111183.0	0.3	64949.9
	0.0	-3.2	-112978.2	1.0	64626.4
	0.0	-1.2	-109256.4	0.6	65244.6
	0.0	-7.4	-120969.2	1.9	63337.6
	0.0	-5.4	-117247.4	1.5	63955.8
323.	0.0	4.0	-69773.9	-642.6	-346509.0
	0.0	6.0	-65974.4	-964.6	-351343.0
	0.0	-0.3	-77920.3	45.6	-336080.9
	0.0	1.7	-74120.8	-276.4	-340914.9
	0.0	0.7	-75962.9	-115.8	-338544.1
	0.0	2.7	-72163.4	-437.7	-343378.1
	0.0	-3.5	-84109.3	572.4	-328116.0
	0.0	-1.6	-80309.9	250.5	-332950.0
	0.0	0.1	-77288.7	-13.6	-337378.3
	0.0	2.1	-73489.2	-335.6	-342212.3
	0.0	-4.2	-85435.1	674.6	-326950.2
	0.0	-2.2	-81635.6	352.6	-331784.2
	0.0	-3.2	-83477.7	513.2	-329413.4
	0.0	-1.2	-79678.2	191.3	-334247.4
	0.0	-7.4	-91624.1	1201.4	-318985.3
	0.0	-5.4	-87824.6	879.5	-323819.3
Asta PROGR.	92 NORM	84 TZZ	85 TORS	MYT	MZZ
0.	0.0	4.0	-238498.2	641.5	-346275.0
	0.0	5.9	-237712.2	962.0	-341495.5
	0.0	-0.3	-240242.4	-44.2	-356498.1
	0.0	1.7	-239456.4	276.3	-351718.6
	0.0	0.7	-239782.3	116.7	-354101.6
	0.0	2.7	-238996.3	437.2	-349322.2
	0.0	-3.5	-241526.5	-569.0	-364324.8
	0.0	-1.5	-240740.5	-248.5	-359545.3
	0.0	0.1	-240010.4	14.3	-355583.3
	0.0	2.1	-239224.4	334.8	-350803.8
	0.0	-4.1	-241754.7	-671.4	-365806.4
	0.0	-2.2	-240968.7	-350.9	-361026.9
	0.0	-3.1	-241294.5	-510.5	-363410.0
	0.0	-1.2	-240508.5	-190.0	-358630.5
	0.0	-7.4	-243038.8	-1196.2	-373633.1
	0.0	-5.4	-242252.8	-875.7	-368853.6
162.	0.0	3.9	-214293.6	3.3	218792.4
	0.0	5.9	-213346.9	5.3	218139.2
	0.0	-0.3	-216371.4	-0.4	220236.9
	0.0	1.7	-215424.7	1.6	219583.7
	0.0	0.7	-215837.7	0.0	219889.3
	0.0	2.7	-214891.0	2.0	219236.2
	0.0	-3.5	-217915.4	-3.6	221333.8
	0.0	-1.5	-216968.7	-1.7	220680.6
	0.0	0.1	-216139.4	-0.4	219918.3
	0.0	2.1	-215192.7	1.5	219265.2
	0.0	-4.1	-218217.1	-4.1	221362.8
	0.0	-2.2	-217270.4	-2.1	220709.7
	0.0	-3.1	-217683.4	-3.7	221015.3
	0.0	-1.2	-216736.7	-1.8	220362.1
	0.0	-7.3	-219761.1	-7.4	222459.8
	0.0	-5.4	-218814.4	-5.4	221806.6
323.	0.0	4.0	-197709.3	-635.1	47174.4
	0.0	5.9	-196568.2	-951.6	39128.8
	0.0	-0.3	-200194.7	43.6	64433.0
	0.0	1.7	-199053.6	-272.9	56387.4
	0.0	0.7	-199568.1	-116.9	60383.4

	0.0	-3206.6	2.7	-198427.1	-433.4	52337.7
	0.0	-3040.2	-3.5	-202053.5	561.9	77642.0
	0.0	-3093.3	-1.5	-200912.5	245.3	69596.3
	0.0	-3136.7	0.1	-199954.3	-15.4	62652.3
	0.0	-3189.7	2.1	-198813.2	-331.9	54606.7
	0.0	-3023.3	-4.1	-202439.7	663.3	79910.9
	0.0	-3076.4	-2.2	-201298.7	346.8	71865.3
	0.0	-3049.8	-3.1	-201813.1	502.9	75861.3
	0.0	-3102.9	-1.2	-200672.1	186.3	67815.6
	0.0	-2936.5	-7.4	-204298.6	1181.6	93119.9
	0.0	-2989.6	-5.4	-203157.5	865.0	85074.2
Asta	93	nod	85	47		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-1031.1	6.4	29175.0	638.2	149472.8
	0.0	-1077.4	9.6	29279.8	956.0	154016.2
	0.0	-931.8	-0.5	28932.9	-43.9	139830.1
	0.0	-978.1	2.8	29037.7	273.9	144373.5
	0.0	-955.0	1.2	28996.2	118.0	142049.6
	0.0	-1001.4	4.4	29101.0	435.8	146593.0
	0.0	-855.7	-5.7	28754.1	-564.1	132406.9
	0.0	-902.1	-2.5	28858.9	-246.3	136950.4
	0.0	-941.5	0.2	28995.0	16.0	140507.0
	0.0	-987.9	3.4	29099.9	333.8	145050.4
	0.0	-842.3	-6.7	28752.9	-666.1	130864.3
	0.0	-888.6	-3.5	28857.8	-348.3	135407.7
	0.0	-865.5	-5.1	28816.3	-504.2	133083.8
	0.0	-911.8	-1.9	28921.1	-186.4	137627.2
	0.0	-766.2	-12.0	28574.2	-1186.3	123441.1
	0.0	-812.5	-8.8	28679.0	-868.5	127984.6
88.	0.0	-3207.9	6.4	28760.8	75.0	-38065.8
	0.0	-3260.0	9.6	28858.7	111.8	-37862.8
	0.0	-3096.6	-0.5	28534.8	-4.1	-38442.2
	0.0	-3148.6	2.8	28632.7	32.7	-38239.2
	0.0	-3122.6	1.2	28594.1	15.0	-38372.0
	0.0	-3174.6	4.4	28692.0	51.8	-38169.0
	0.0	-3011.2	-5.7	28368.1	-64.1	-38748.4
	0.0	-3063.3	-2.5	28466.0	-27.3	-38545.4
	0.0	-3106.8	0.2	28590.7	2.1	-38646.5
	0.0	-3158.9	3.4	28688.6	38.9	-38443.5
	0.0	-2995.5	-6.7	28364.7	-77.0	-39022.8
	0.0	-3047.5	-3.5	28462.6	-40.2	-38819.8
	0.0	-3021.5	-5.1	28424.0	-57.9	-38952.7
	0.0	-3073.5	-1.9	28521.9	-21.1	-38749.7
	0.0	-2910.1	-12.0	28198.0	-137.1	-39329.0
	0.0	-2962.2	-8.8	28295.9	-100.3	-39126.0
175.	0.0	-5097.2	6.4	28650.2	-488.0	-403638.7
	0.0	-5150.4	9.6	28742.2	-732.2	-408077.3
	0.0	-4983.3	-0.5	28437.9	35.7	-394066.7
	0.0	-5036.6	2.8	28529.9	-208.5	-398505.4
	0.0	-5009.9	1.2	28493.8	-88.0	-396337.9
	0.0	-5063.2	4.4	28585.8	-332.1	-400776.5
	0.0	-4896.0	-5.7	28281.5	435.8	-386766.0
	0.0	-4949.3	-2.5	28373.5	191.6	-391204.6
	0.0	-4993.8	0.2	28488.0	-11.8	-395178.5
	0.0	-5047.1	3.4	28580.0	-256.0	-399617.1
	0.0	-4880.0	-6.7	28275.7	511.9	-385606.5
	0.0	-4933.2	-3.5	28367.7	267.7	-390045.2
	0.0	-4906.6	-5.1	28331.6	388.3	-387877.7
	0.0	-4959.8	-1.9	28423.7	144.1	-392316.3
	0.0	-4792.7	-12.0	28119.3	912.0	-378305.7
	0.0	-4845.9	-8.8	28211.4	667.8	-382744.4
Asta	94	nod	47	86		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2240.2	2.9	-15998.9	475.6	83491.3
	0.0	2200.1	4.3	-13202.7	713.5	91508.6
	0.0	2326.4	-0.2	-21990.8	-34.5	66264.0
	0.0	2286.3	1.2	-19194.6	203.4	74281.3
	0.0	2306.2	0.5	-20575.1	85.8	70309.7
	0.0	2266.0	1.9	-17778.9	323.7	78327.0
	0.0	2392.4	-2.5	-26567.0	-424.2	53082.3
	0.0	2352.2	-1.1	-23770.8	-186.4	61099.6
	0.0	2316.9	0.1	-21477.4	10.9	68158.4
	0.0	2276.8	1.5	-18681.2	248.7	76175.7
	0.0	2403.1	-3.0	-27469.3	-499.2	50931.0
	0.0	2363.0	-1.6	-24673.1	-261.3	58948.3
	0.0	2382.9	-2.3	-26053.6	-378.9	54976.8
	0.0	2342.7	-0.8	-23257.4	-141.0	62994.0
	0.0	2469.1	-5.3	-32045.5	-889.0	37749.4
	0.0	2428.9	-3.9	-29249.3	-651.1	45766.7
173.	0.0	-1245.9	2.8	-1310.9	-15.6	172164.5
	0.0	-1285.0	4.3	1770.4	-23.3	173408.1
	0.0	-1161.8	-0.2	-7907.2	0.7	169492.9
	0.0	-1200.9	1.2	-4825.8	-7.0	170736.4
	0.0	-1181.5	0.5	-6350.6	-3.1	170124.8
	0.0	-1220.6	1.9	-3269.2	-10.7	171368.3
	0.0	-1097.4	-2.5	-12946.8	13.3	167453.1
	0.0	-1136.5	-1.1	-9865.4	5.6	168696.7
	0.0	-1171.4	0.1	-7365.4	0.2	169742.3
	0.0	-1210.5	1.5	-4284.1	-7.5	170985.8

	0.0	-1087.2	-3.0	-13961.7	16.6	167070.6
	0.0	-1126.4	-1.6	-10880.3	8.9	168314.2
	0.0	-1107.0	-2.3	-12405.1	12.8	167702.5
	0.0	-1146.1	-0.8	-9323.7	5.1	168946.1
	0.0	-1022.8	-5.3	-19001.3	29.1	165030.9
	0.0	-1062.0	-3.9	-15919.9	21.4	166274.4
345.	0.0	-5011.8	2.9	13324.1	-507.2	-363224.8
	0.0	-5056.1	4.3	16815.1	-760.5	-369090.2
	0.0	-4916.6	-0.2	5857.1	35.9	-350622.0
	0.0	-4960.9	1.2	9348.1	-217.5	-356487.3
	0.0	-4939.0	0.5	7617.5	-92.0	-353573.3
	0.0	-4983.3	1.9	11108.5	-345.4	-359438.7
	0.0	-4843.8	-2.5	150.4	451.1	-340970.5
	0.0	-4888.1	-1.1	3641.4	197.7	-346835.8
	0.0	-4927.0	0.1	6449.0	-10.5	-352084.2
	0.0	-4971.3	1.5	9940.0	-263.9	-357949.5
	0.0	-4831.8	-3.0	-1018.1	532.6	-339481.4
	0.0	-4876.1	-1.6	2472.9	279.2	-345346.7
	0.0	-4854.1	-2.3	742.3	404.7	-342432.7
	0.0	-4898.5	-0.8	4233.3	151.3	-348298.0
	0.0	-4759.0	-5.3	-6724.8	947.8	-329829.9
	0.0	-4803.3	-3.9	-3233.8	694.4	-335695.2
Asta	95	nod	86	67		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4843.6	3.0	-105226.2	514.0	-331519.3
	0.0	4817.5	4.4	-109035.8	770.6	-327971.7
	0.0	4899.7	-0.2	-97115.3	-36.2	-339136.9
	0.0	4873.7	1.3	-100924.9	220.4	-335589.3
	0.0	4886.5	0.5	-99013.4	93.4	-337345.8
	0.0	4860.5	2.0	-102823.0	349.9	-333798.2
	0.0	4942.7	-2.6	-90902.5	-456.8	-344963.3
	0.0	4916.6	-1.2	-94712.2	-200.3	-341415.7
	0.0	4892.3	0.1	-97657.2	11.0	-338372.6
	0.0	4866.2	1.5	-101466.8	267.6	-334825.0
	0.0	4948.4	-3.1	-89546.3	-539.2	-345990.1
	0.0	4922.4	-1.6	-93356.0	-282.6	-342442.5
	0.0	4935.2	-2.4	-91444.4	-409.7	-344199.0
	0.0	4909.2	-0.9	-95254.1	-153.1	-340651.4
	0.0	4991.3	-5.5	-83333.6	-959.9	-351816.6
	0.0	4965.3	-4.0	-87143.2	-703.3	-348269.0
170.	0.0	930.0	2.9	-92615.1	12.2	160898.0
	0.0	894.5	4.4	-96026.2	18.4	159277.7
	0.0	1006.2	-0.2	-85352.0	-0.7	164401.1
	0.0	970.7	1.3	-88763.2	5.5	162780.8
	0.0	988.3	0.5	-87051.4	2.3	163583.5
	0.0	952.8	2.0	-90462.6	8.5	161963.2
	0.0	1064.5	-2.6	-79788.3	-10.5	167086.6
	0.0	1029.0	-1.2	-83199.5	-4.4	165466.3
	0.0	997.9	0.1	-85843.4	-0.6	163832.5
	0.0	962.4	1.5	-89254.6	5.5	162212.2
	0.0	1074.1	-3.1	-78580.3	-13.5	167335.6
	0.0	1038.6	-1.6	-81991.5	-7.3	165715.3
	0.0	1056.2	-2.3	-80279.7	-10.5	166518.0
	0.0	1020.7	-0.9	-83690.9	-4.3	164897.7
	0.0	1132.4	-5.5	-73016.6	-23.3	170021.1
	0.0	1096.9	-4.0	-76427.8	-17.2	168400.8
340.	0.0	-3112.4	3.0	-83640.4	-489.5	-22059.1
	0.0	-3161.1	4.4	-86787.0	-733.6	-30811.0
	0.0	-3008.3	-0.2	-76939.9	34.8	-3273.9
	0.0	-3057.0	1.3	-80086.6	-209.4	-12025.8
	0.0	-3032.7	0.5	-78507.3	-88.7	-7677.3
	0.0	-3081.4	2.0	-81654.0	-332.8	-16429.2
	0.0	-2928.6	-2.6	-71806.8	435.6	11107.9
	0.0	-2977.3	-1.2	-74953.5	191.4	2356.0
	0.0	-3017.2	0.1	-77400.1	-12.2	-5321.8
	0.0	-3065.9	1.5	-80546.8	-256.4	-14073.8
	0.0	-2913.1	-3.1	-70699.7	512.0	13463.4
	0.0	-2961.8	-1.6	-73846.3	267.9	4711.4
	0.0	-2937.5	-2.3	-72267.1	388.6	9060.0
	0.0	-2986.2	-0.9	-75413.7	144.4	308.0
	0.0	-2833.4	-5.5	-65566.6	912.8	27845.2
	0.0	-2882.1	-4.0	-68713.3	668.7	19093.2
Asta	96	nod	60	57		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-2116.5	-1.3	637.5	-183.1	122796.0
	0.0	-2086.7	-2.0	1010.3	-274.2	118416.2
	0.0	-2180.2	0.1	-157.8	12.4	132133.5
	0.0	-2150.3	-0.6	215.0	-78.7	127753.7
	0.0	-2165.3	-0.2	28.5	-33.6	129943.7
	0.0	-2135.4	-0.9	401.3	-124.7	125563.9
	0.0	-2228.9	1.2	-766.8	161.9	139281.3
	0.0	-2199.0	0.5	-393.9	70.8	134901.5
	0.0	-2175.8	0.0	-101.6	-3.5	131478.1
	0.0	-2145.9	-0.7	271.2	-94.6	127098.3
	0.0	-2239.4	1.4	-896.8	192.0	140815.6
	0.0	-2209.5	0.7	-524.0	100.9	136435.8
	0.0	-2224.5	1.0	-710.5	145.9	138625.8
	0.0	-2194.6	0.4	-337.7	54.8	134246.0
	0.0	-2288.1	2.4	-1505.8	341.4	147963.3

140.	0.0	-2258.2	1.8	-1133.0	250.3	143583.5
	0.0	65.7	-1.3	744.6	0.3	-21235.1
	0.0	97.7	-2.0	1117.5	0.2	-21222.3
	0.0	-2.6	0.1	-50.7	0.2	-21262.2
	0.0	29.4	-0.6	322.2	0.2	-21249.4
	0.0	13.4	-0.2	135.7	0.3	-21255.7
	0.0	45.4	-0.9	508.5	0.3	-21242.9
	0.0	-54.8	1.2	-659.6	0.2	-21282.8
	0.0	-22.8	0.5	-286.8	0.2	-21270.0
	0.0	2.2	0.0	4.9	-0.2	-21263.9
	0.0	34.2	-0.7	377.8	-0.2	-21251.2
	0.0	-66.0	1.4	-790.4	-0.3	-21291.0
	0.0	-34.0	0.7	-417.6	-0.3	-21278.2
	0.0	-50.0	1.0	-604.1	-0.2	-21284.5
	0.0	-18.0	0.4	-231.2	-0.2	-21271.8
	0.0	-118.2	2.4	-1399.4	-0.3	-21311.6
	0.0	-86.2	1.8	-1026.5	-0.3	-21298.8
280.	0.0	2239.1	-1.3	863.4	183.4	140825.0
	0.0	2268.9	-2.0	1242.1	274.5	145225.5
	0.0	2175.7	0.1	55.7	-12.1	131443.6
	0.0	2205.4	-0.6	434.4	79.0	135844.1
	0.0	2190.5	-0.2	245.0	34.0	133643.8
	0.0	2220.3	-0.9	623.6	125.1	138044.3
	0.0	2127.1	1.2	-562.8	-161.5	124262.4
	0.0	2156.8	0.5	-184.1	-70.4	128662.9
	0.0	2180.1	0.0	111.5	3.2	132101.0
	0.0	2209.9	-0.7	490.2	94.2	136501.5
	0.0	2116.7	1.4	-696.3	-192.3	122719.6
	0.0	2146.4	0.7	-317.6	-101.3	127120.1
	0.0	2131.6	1.0	-507.0	-146.3	124919.8
	0.0	2161.3	0.4	-128.3	-55.2	129320.3
	0.0	2068.1	2.4	-1314.7	-341.8	115538.4
	0.0	2097.9	1.8	-936.1	-250.7	119938.9
Asta PROGR. 0.	97	nod	61	56		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	0.0	-2574.1	-1.2	1552.5	-172.3	159304.0
	0.0	-2563.0	-1.8	1292.9	-257.9	157653.0
	0.0	-2597.7	0.1	2110.4	10.3	162798.2
	0.0	-2586.5	-0.5	1850.7	-75.2	161147.2
	0.0	-2592.2	-0.2	1974.4	-32.4	161992.1
	0.0	-2581.1	-0.8	1714.7	-118.0	160341.0
	0.0	-2615.8	1.1	2532.2	150.3	165486.3
	0.0	-2604.7	0.5	2272.5	64.7	163835.2
	0.0	-2596.6	0.0	2062.2	-2.0	162629.0
	0.0	-2585.5	-0.6	1802.5	-87.6	160978.0
	0.0	-2620.2	1.3	2620.0	180.7	166123.2
	0.0	-2609.0	0.7	2360.3	95.1	164472.1
	0.0	-2614.8	1.0	2484.0	137.9	165317.1
	0.0	-2603.6	0.4	2224.3	52.4	163666.0
	0.0	-2638.3	2.3	3041.9	320.6	168811.3
	0.0	-2627.2	1.7	2782.2	235.1	167160.2
140.	0.0	62.6	-1.2	405.8	0.2	-17312.8
	0.0	74.9	-1.8	149.6	0.1	-17295.8
	0.0	36.7	0.1	956.2	0.0	-17348.9
	0.0	49.0	-0.5	700.0	0.0	-17331.9
	0.0	42.7	-0.2	822.1	0.2	-17341.7
	0.0	54.9	-0.8	565.8	0.2	-17324.7
	0.0	16.8	1.1	1372.5	0.1	-17377.8
	0.0	29.0	0.5	1116.3	0.0	-17360.8
	0.0	38.0	0.0	908.6	-0.1	-17353.5
	0.0	50.2	-0.6	652.4	-0.1	-17336.5
	0.0	12.0	1.3	1459.0	-0.2	-17389.7
	0.0	24.3	0.7	1202.8	-0.2	-17372.7
	0.0	18.0	1.0	1324.8	0.0	-17382.4
	0.0	30.2	0.4	1068.6	0.0	-17365.4
	0.0	-7.9	2.3	1875.2	-0.2	-17418.6
	0.0	4.3	1.7	1619.0	-0.2	-17401.6
280.	0.0	2695.0	-1.2	-734.5	172.5	176688.3
	0.0	2706.1	-1.8	-991.3	258.0	178373.1
	0.0	2671.4	0.1	-183.0	-10.3	173121.6
	0.0	2682.5	-0.5	-439.7	75.2	174806.5
	0.0	2676.8	-0.2	-317.4	32.6	173941.4
	0.0	2688.0	-0.8	-574.2	118.1	175626.2
	0.0	2653.3	1.1	234.1	-150.1	170374.7
	0.0	2664.4	0.5	-22.6	-64.6	172059.5
	0.0	2672.5	0.0	-230.8	1.9	173285.7
	0.0	2683.7	-0.6	-487.5	87.4	174970.6
	0.0	2649.0	1.3	320.8	-180.9	169719.0
	0.0	2660.1	0.7	64.0	-95.4	171403.9
	0.0	2654.4	1.0	186.3	-138.0	170538.8
	0.0	2665.5	0.4	-70.4	-52.5	172223.7
	0.0	2630.8	2.3	737.9	-320.7	166972.1
	0.0	2642.0	1.7	481.1	-235.2	168657.0
Asta PROGR. 0.	98	nod	62	55		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	0.0	-2844.8	-1.2	6664.7	-171.2	137454.3
	0.0	-2845.0	-1.8	6223.9	-255.2	137560.5
	0.0	-2844.1	0.1	7614.7	9.1	137198.6
	0.0	-2844.3	-0.5	7173.9	-74.9	137304.8

	0.0	-2844.4	-0.2	7381.3	-34.2	137281.4
	0.0	-2844.7	-0.8	6940.4	-118.1	137387.5
	0.0	-2843.7	1.0	8331.3	146.2	137025.7
	0.0	-2844.0	0.4	7890.4	62.2	137131.9
	0.0	-2844.5	0.0	7518.2	-0.2	137268.3
	0.0	-2844.7	-0.6	7077.4	-84.2	137374.5
	0.0	-2843.8	1.3	8468.2	180.2	137012.7
	0.0	-2844.0	0.7	8027.4	96.2	137118.8
	0.0	-2844.1	1.0	8234.8	136.9	137095.4
	0.0	-2844.4	0.4	7794.0	52.9	137201.6
	0.0	-2843.4	2.3	9184.8	317.2	136839.7
	0.0	-2843.7	1.7	8744.0	233.2	136945.9
140.	0.0	84.1	-1.2	6115.6	0.4	-55816.3
	0.0	83.7	-1.8	5680.0	0.4	-55759.3
	0.0	85.2	0.1	7054.3	0.3	-55935.2
	0.0	84.8	-0.5	6618.7	0.3	-55878.2
	0.0	84.7	-0.2	6823.7	0.3	-55910.4
	0.0	84.3	-0.8	6388.1	0.4	-55853.4
	0.0	85.9	1.0	7762.3	0.2	-56029.2
	0.0	85.5	0.4	7326.7	0.3	-55972.3
	0.0	84.7	0.0	6959.0	-0.3	-55934.2
	0.0	84.3	-0.6	6523.4	-0.3	-55877.2
	0.0	85.8	1.3	7897.7	-0.4	-56053.1
	0.0	85.4	0.7	7462.1	-0.4	-55996.1
	0.0	85.3	1.0	7667.1	-0.3	-56028.3
	0.0	84.9	0.4	7231.5	-0.3	-55971.3
	0.0	86.5	2.3	8605.7	-0.4	-56147.2
	0.0	86.1	1.7	8170.1	-0.4	-56090.2
280.	0.0	2996.4	-1.2	5662.0	171.8	160288.1
	0.0	2996.2	-1.8	5224.9	255.8	160294.4
	0.0	2997.3	0.1	6604.0	-8.7	160343.5
	0.0	2997.0	-0.5	6166.9	75.4	160349.8
	0.0	2996.9	-0.2	6372.6	34.7	160273.5
	0.0	2996.6	-0.8	5935.4	118.7	160279.8
	0.0	2997.7	1.0	7314.6	-145.8	160328.9
	0.0	2997.4	0.4	6877.4	-61.8	160335.3
	0.0	2996.8	0.0	6508.5	-0.3	160222.3
	0.0	2996.5	-0.6	6071.3	83.8	160228.6
	0.0	2997.6	1.3	7450.5	-180.7	160277.8
	0.0	2997.3	0.7	7013.3	-96.7	160284.1
	0.0	2997.2	1.0	7219.0	-137.4	160207.7
	0.0	2996.9	0.4	6781.9	-53.4	160214.0
	0.0	2998.0	2.3	8161.0	-317.9	160263.2
	0.0	2997.8	1.7	7723.9	-233.8	160269.5
Asta	99	nod1	63	54		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-3089.8	-1.2	25216.3	-169.6	143565.1
	0.0	-3101.1	-1.8	24875.3	-253.6	145486.7
	0.0	-3065.3	0.1	25953.3	11.8	139383.4
	0.0	-3076.5	-0.5	25612.2	-72.1	141304.9
	0.0	-3071.5	-0.2	25770.6	-32.5	140440.6
	0.0	-3082.8	-0.8	25429.6	-116.5	142362.2
	0.0	-3046.9	1.1	26507.6	148.9	136258.9
	0.0	-3058.2	0.5	26166.6	65.0	138180.4
	0.0	-3067.6	0.0	25876.5	-2.4	139793.1
	0.0	-3078.9	-0.6	25535.4	-86.3	141714.6
	0.0	-3043.1	1.3	26613.5	179.1	135611.3
	0.0	-3054.3	0.7	26272.4	95.1	137532.9
	0.0	-3049.3	1.0	26430.8	134.7	136668.6
	0.0	-3060.6	0.4	26089.8	50.8	138590.2
	0.0	-3024.8	2.3	27167.8	316.2	132486.9
	0.0	-3036.0	1.7	26826.7	232.2	134408.4
140.	0.0	-23.9	-1.2	24964.6	-0.1	-73077.3
	0.0	-37.0	-1.8	24628.5	-0.3	-72903.6
	0.0	4.5	0.1	25690.9	0.4	-73449.8
	0.0	-8.5	-0.5	25354.8	0.2	-73276.1
	0.0	-2.7	-0.2	25510.8	0.3	-73361.3
	0.0	-15.8	-0.8	25174.7	0.1	-73187.7
	0.0	25.7	1.1	26237.1	0.8	-73733.8
	0.0	12.7	0.5	25901.0	0.6	-73560.2
	0.0	1.6	0.0	25614.8	-0.4	-73419.8
	0.0	-11.4	-0.6	25278.7	-0.6	-73246.1
	0.0	30.0	1.3	26341.1	0.1	-73792.3
	0.0	17.0	0.7	26005.0	-0.1	-73618.6
	0.0	22.8	1.0	26161.1	-0.1	-73703.8
	0.0	9.7	0.4	25825.0	-0.3	-73530.2
	0.0	51.2	2.3	26887.4	0.4	-74076.3
	0.0	38.2	1.7	26551.3	0.2	-73902.7
280.	0.0	2932.7	-1.2	25102.6	169.1	131740.2
	0.0	2921.1	-1.8	24766.2	252.7	130151.5
	0.0	2957.9	0.1	25829.6	-11.3	135210.9
	0.0	2946.3	-0.5	25493.2	72.2	133622.2
	0.0	2951.5	-0.2	25649.3	32.7	134318.3
	0.0	2939.9	-0.8	25312.9	116.3	132729.6
	0.0	2976.7	1.1	26376.3	-147.7	137789.0
	0.0	2965.1	0.5	26039.9	-64.2	136200.3
	0.0	2955.2	0.0	25753.1	1.9	134837.9
	0.0	2943.6	-0.6	25416.7	85.4	133249.2
	0.0	2980.5	1.3	26480.1	-178.5	138308.6
	0.0	2968.9	0.7	26143.7	-95.0	136719.9

	0.0	2974.0	1.0	26299.8	-134.5	137416.0
	0.0	2962.4	0.4	25963.4	-51.0	135827.3
	0.0	2999.2	2.3	27026.8	-314.9	140886.7
	0.0	2987.7	1.7	26690.4	-231.4	139298.0
Asta	100	nod1	64	53		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-3784.6	-1.2	46184.8	-170.7	230047.1
	0.0	-3806.2	-1.9	46267.7	-255.4	233813.1
	0.0	-3737.6	0.1	46003.2	11.8	221876.4
	0.0	-3759.2	-0.5	46086.1	-72.9	225642.3
	0.0	-3749.3	-0.2	46050.0	-32.4	223921.3
	0.0	-3771.0	-0.9	46132.9	-117.1	227687.2
	0.0	-3702.3	1.1	45868.4	150.1	215750.5
	0.0	-3724.0	0.5	45951.3	65.4	219516.5
	0.0	-3741.8	0.0	46015.9	-2.3	222636.9
	0.0	-3763.5	-0.6	46098.8	-87.0	226402.8
	0.0	-3694.8	1.3	45834.3	180.2	214466.1
	0.0	-3716.5	0.7	45917.2	95.5	218232.1
	0.0	-3706.6	1.0	45881.1	136.0	216511.0
	0.0	-3728.3	0.4	45964.0	51.3	220277.0
	0.0	-3659.6	2.3	45699.5	318.5	208340.3
	0.0	-3681.2	1.7	45782.4	233.8	212106.2
140.	0.0	-739.2	-1.2	46970.4	2.9	-82057.6
	0.0	-763.1	-1.9	47053.6	4.3	-81553.8
	0.0	-687.2	0.1	46788.2	-0.1	-83146.9
	0.0	-711.2	-0.5	46871.4	1.3	-82643.2
	0.0	-700.3	-0.2	46835.0	0.6	-82878.3
	0.0	-724.2	-0.8	46918.3	2.0	-82374.6
	0.0	-648.4	1.1	46652.8	-2.4	-83967.7
	0.0	-672.3	0.5	46736.1	-1.0	-83463.9
	0.0	-692.1	0.0	46800.5	0.0	-83045.9
	0.0	-716.1	-0.6	46883.7	1.4	-82542.2
	0.0	-640.2	1.3	46618.3	-3.1	-84135.3
	0.0	-664.1	0.7	46701.5	-1.7	-83631.6
	0.0	-653.3	1.0	46665.1	-2.3	-83866.7
	0.0	-677.2	0.4	46748.4	-0.9	-83362.9
	0.0	-601.4	2.3	46482.9	-5.4	-84956.1
	0.0	-625.3	1.7	46566.2	-4.0	-84452.3
280.	0.0	1916.2	-1.2	48489.3	176.5	4266.4
	0.0	1894.6	-1.9	48574.2	264.0	1527.8
	0.0	1963.3	0.1	48303.7	-12.1	10216.6
	0.0	1941.6	-0.5	48388.6	75.4	7478.0
	0.0	1951.5	-0.2	48351.3	33.6	8717.4
	0.0	1929.8	-0.9	48436.2	121.1	5978.8
	0.0	1998.5	1.1	48165.7	-155.0	14667.6
	0.0	1976.9	0.5	48250.5	-67.5	11929.0
	0.0	1958.8	0.0	48315.8	2.2	9646.9
	0.0	1937.1	-0.6	48400.6	89.7	6908.3
	0.0	2005.8	1.3	48130.1	-186.3	15597.1
	0.0	1984.2	0.7	48215.0	-98.9	12858.6
	0.0	1994.0	1.0	48177.8	-140.7	14097.9
	0.0	1972.3	0.4	48262.6	-53.2	11359.3
	0.0	2041.1	2.3	47992.1	-329.3	20048.1
	0.0	2019.4	1.7	48077.0	-241.8	17309.6
Asta	101	nod1	65	52		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-4322.2	-0.5	2847.4	-117.5	360019.7
	0.0	-4341.3	-0.7	3772.6	-176.0	363803.4
	0.0	-4280.8	0.0	839.2	8.5	351822.5
	0.0	-4299.9	-0.2	1764.4	-50.0	355606.2
	0.0	-4291.1	-0.1	1343.7	-21.8	353862.2
	0.0	-4310.2	-0.3	2268.9	-80.3	357645.9
	0.0	-4249.7	0.4	-664.4	104.3	345665.0
	0.0	-4268.8	0.2	260.7	45.8	349448.7
	0.0	-4284.4	0.0	1061.8	-2.2	352564.6
	0.0	-4303.6	-0.2	1987.0	-60.7	356348.3
	0.0	-4243.0	0.5	-946.4	123.8	344367.4
	0.0	-4262.1	0.3	-21.2	65.3	348151.1
	0.0	-4253.3	0.4	-441.9	93.5	346407.2
	0.0	-4272.5	0.1	483.3	35.0	350190.9
	0.0	-4211.9	0.9	-2450.0	219.5	338210.0
	0.0	-4231.0	0.6	-1524.9	161.0	341993.7
147.	0.0	-1541.4	-0.5	4614.3	-49.1	-65153.2
	0.0	-1560.3	-0.7	5509.4	-73.6	-64241.2
	0.0	-1500.2	0.0	2671.4	3.5	-67125.5
	0.0	-1519.2	-0.2	3566.5	-20.9	-66213.5
	0.0	-1510.5	-0.1	3159.5	-9.2	-66638.6
	0.0	-1529.5	-0.3	4054.6	-33.6	-65726.6
	0.0	-1469.3	0.4	1216.6	43.5	-68610.8
	0.0	-1488.3	0.2	2111.7	19.1	-67698.9
	0.0	-1504.0	0.0	2887.1	-0.9	-66947.6
	0.0	-1523.0	-0.2	3782.2	-25.3	-66035.6
	0.0	-1462.9	0.5	944.2	51.8	-68919.8
	0.0	-1481.8	0.3	1839.3	27.3	-68007.9
	0.0	-1473.1	0.4	1432.3	39.1	-68432.9
	0.0	-1492.1	0.1	2327.4	14.7	-67521.0
	0.0	-1432.0	0.9	-510.6	91.8	-70405.2
	0.0	-1451.0	0.6	384.5	67.3	-69493.2
294.	0.0	691.3	-0.5	6460.6	18.5	-121841.2

	0.0	675.5	-0.7	7341.0	27.7	-123509.6
	0.0	725.5	0.0	4549.6	-1.4	-118219.4
	0.0	709.7	-0.2	5430.0	7.8	-119887.7
	0.0	717.0	-0.1	5029.7	3.3	-119129.1
	0.0	701.2	-0.3	5910.2	12.6	-120797.5
	0.0	751.2	0.4	3118.7	-16.6	-115507.2
	0.0	735.4	0.2	3999.1	-7.3	-117175.6
	0.0	722.3	0.0	4762.1	0.5	-118561.3
	0.0	706.5	-0.2	5642.5	9.7	-120229.7
	0.0	756.6	0.5	2851.0	-19.5	-114939.5
	0.0	740.8	0.3	3731.4	-10.2	-116607.8
	0.0	748.0	0.4	3331.2	-14.7	-115849.2
	0.0	732.2	0.1	4211.6	-5.4	-117517.6
	0.0	782.3	0.9	1420.1	-34.6	-112227.3
	0.0	766.5	0.6	2300.5	-25.3	-113895.7
Asta	104	nod	10	15		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	388.2	2.8	-587.3	360.1	-52534.2
	0.0	470.8	4.3	-9257.6	539.4	-54941.9
	0.0	210.5	-0.2	18141.9	-25.9	-47396.5
	0.0	293.1	1.2	9471.6	153.4	-49804.2
	0.0	252.9	0.5	13551.3	66.9	-48556.0
	0.0	335.5	1.9	4881.0	246.1	-50963.7
	0.0	75.1	-2.5	32280.5	-319.1	-43418.3
	0.0	157.7	-1.1	23610.2	-139.9	-45826.0
	0.0	221.7	0.1	16465.6	7.1	-47421.1
	0.0	304.3	1.5	7795.3	186.4	-49828.8
	0.0	43.9	-3.0	35194.8	-378.9	-42283.5
	0.0	126.5	-1.6	26524.5	-199.6	-44691.2
	0.0	86.3	-2.3	30604.2	-286.1	-43442.9
	0.0	169.0	-0.8	21934.0	-106.8	-45850.7
	0.0	-91.4	-5.3	49333.4	-672.1	-38305.3
	0.0	-8.8	-3.9	40663.1	-492.8	-40713.0
130.	0.0	-221.8	2.8	4673.9	-9.4	-39903.0
	0.0	-178.5	4.3	-4578.2	-14.2	-34049.1
	0.0	-314.4	-0.2	24660.3	0.9	-52510.4
	0.0	-271.2	1.2	15408.2	-3.9	-46656.5
	0.0	-293.0	0.5	19761.1	-1.7	-49479.4
	0.0	-249.7	1.9	10508.9	-6.5	-43625.6
	0.0	-385.7	-2.5	39747.5	8.6	-62086.9
	0.0	-342.4	-1.1	30495.3	3.8	-56233.0
	0.0	-311.6	0.1	22866.9	-0.3	-51609.0
	0.0	-268.3	1.5	13614.7	-5.0	-45755.1
	0.0	-404.2	-3.0	42853.3	10.0	-64216.4
	0.0	-361.0	-1.6	33601.1	5.2	-58362.6
	0.0	-382.8	-2.3	37954.0	7.4	-61185.5
	0.0	-339.5	-0.8	28701.9	2.7	-55331.6
	0.0	-475.5	-5.3	57940.4	17.7	-73792.9
	0.0	-432.2	-3.9	48688.2	12.9	-67939.0
260.	0.0	-984.7	2.8	10043.4	-378.9	-116832.4
	0.0	-989.1	4.3	-4.8	-567.8	-108341.3
	0.0	-974.2	-0.2	31749.6	27.6	-135028.0
	0.0	-978.6	1.2	21701.4	-161.2	-126536.9
	0.0	-978.2	0.5	26428.2	-70.3	-130798.4
	0.0	-982.6	1.9	16380.1	-259.1	-122307.3
	0.0	-967.8	-2.5	48134.4	336.3	-148994.0
	0.0	-972.2	-1.1	38086.3	147.5	-140502.9
	0.0	-979.6	0.1	29797.3	-7.7	-134358.0
	0.0	-984.0	1.5	19749.2	-196.5	-125866.9
	0.0	-969.2	-3.0	51503.5	398.9	-152553.7
	0.0	-973.6	-1.6	41455.4	210.1	-144062.6
	0.0	-973.2	-2.3	46182.2	301.0	-148324.0
	0.0	-977.6	-0.8	36134.0	112.2	-139832.9
	0.0	-962.7	-5.3	67888.4	707.6	-166519.7
	0.0	-967.1	-3.9	57840.3	518.8	-158028.6
Asta	105	nod	67	87		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-5776.7	-668.1	191.8	-980.8	1431.6	70140.5
	-5787.3	-712.4	158.9	-1470.4	-6233.5	79430.0
	-5754.3	-573.4	262.6	70.7	17897.5	50288.5
	-5764.9	-617.7	229.6	-418.8	10232.4	59578.0
	-5759.6	-595.7	246.0	-176.9	14035.3	54952.4
	-5770.2	-640.0	213.1	-666.4	6370.2	64241.9
	-5737.2	-501.0	316.7	874.6	30501.2	35100.3
	-5747.8	-545.3	283.8	385.1	22836.1	44389.9
	-5754.8	-580.7	254.8	-25.9	16085.3	51816.3
	-5765.3	-625.0	221.9	-515.4	8420.2	61105.8
	-5732.3	-486.1	325.5	1025.6	32551.2	31964.3
	-5742.9	-530.4	292.6	536.1	24886.1	41253.8
	-5737.6	-508.3	308.9	778.0	28689.0	36628.2
	-5748.2	-552.6	276.0	288.5	21024.0	45917.7
	-5715.2	-413.7	379.7	1829.6	45154.9	16776.2
	-5725.8	-457.9	346.7	1340.1	37489.8	26065.7
165.	-5281.7	-668.1	191.8	-980.8	-30222.7	-40094.3
	-5292.3	-712.4	158.9	-1470.4	-32455.6	-38112.9
	-5259.3	-573.4	262.6	70.7	-25425.8	-44328.6
	-5269.9	-617.7	229.6	-418.8	-27658.8	-42347.2
	-5264.6	-595.7	246.0	-176.9	-26550.8	-43333.8
	-5275.2	-640.0	213.1	-666.4	-28783.8	-41352.4

	-7765.4	248.4	41.0	569.7	-736.7	-32855.4
	-7761.5	278.1	40.5	825.0	-838.5	-38445.5
	-7769.3	218.5	41.6	309.5	-621.9	-27219.3
	-7744.7	405.4	38.3	1931.0	-1288.9	-62431.1
	-7752.6	345.8	39.4	1415.5	-1072.3	-51204.8
165.	-7295.6	62.7	45.6	-1034.4	-7270.8	12470.5
	-7303.5	3.1	46.7	-1549.9	-7228.6	13864.3
	-7278.8	190.1	43.4	71.6	-7357.4	9492.5
	-7286.7	130.5	44.5	-443.9	-7315.1	10886.3
	-7282.8	160.1	44.0	-188.6	-7334.2	10192.2
	-7290.7	100.5	45.0	-704.1	-7292.0	11586.1
	-7266.0	287.5	41.7	917.4	-7420.7	7214.3
	-7273.9	227.9	42.8	401.9	-7378.5	8608.1
	-7279.3	180.7	42.2	-20.9	-7459.3	9711.9
	-7287.1	121.1	43.2	-536.3	-7417.1	11105.8
	-7262.5	308.0	40.0	1085.1	-7545.9	6734.0
	-7270.4	248.4	41.0	569.7	-7503.6	8127.8
	-7266.5	278.1	40.5	825.0	-7522.7	7433.7
	-7274.3	218.5	41.6	309.5	-7480.5	8827.6
	-7249.7	405.4	38.3	1931.0	-7609.2	4455.8
	-7257.6	345.8	39.4	1415.5	-7567.0	5849.6
330.	-6800.6	62.7	45.6	-1034.4	-14796.4	22822.0
	-6808.5	3.1	46.7	-1549.9	-14928.5	14383.4
	-6783.8	190.1	43.4	71.6	-14519.0	40851.6
	-6791.7	130.5	44.5	-443.9	-14651.1	32413.1
	-6787.8	160.1	44.0	-188.6	-14587.6	36615.0
	-6795.7	100.5	45.0	-704.1	-14719.6	28176.5
	-6771.0	287.5	41.7	917.4	-14310.2	54644.6
	-6778.9	227.9	42.8	401.9	-14442.3	46206.1
	-6784.3	180.7	42.2	-20.9	-14414.4	39519.9
	-6792.1	121.1	43.2	-536.3	-14546.5	31081.4
	-6767.5	308.0	40.0	1085.1	-14137.0	57549.5
	-6775.4	248.4	41.0	569.7	-14269.1	49111.0
	-6771.5	278.1	40.5	825.0	-14205.5	53313.0
	-6779.3	218.5	41.6	309.5	-14337.6	44874.4
	-6754.7	405.4	38.3	1931.0	-13928.1	71342.6
	-6762.6	345.8	39.4	1415.5	-14060.2	62904.0
Asta	108	nod	58	90		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-7772.2	-301.8	65.9	-1042.4	5177.7	42917.8
	-7771.0	-361.3	77.1	-1557.4	7848.1	54121.4
	-7774.9	-174.7	42.0	63.8	-542.6	18978.6
	-7773.6	-234.2	53.1	-451.1	2127.8	30182.2
	-7774.3	-204.6	47.6	-197.2	812.2	24605.6
	-7773.0	-264.1	58.8	-712.1	3482.6	35809.1
	-7776.9	-77.5	23.7	909.0	-4908.1	666.3
	-7775.7	-137.0	34.9	394.1	-2237.7	11869.9
	-7774.1	-184.0	42.6	-15.2	-394.5	20721.1
	-7772.8	-243.5	53.8	-530.1	2275.9	31924.7
	-7776.7	-56.9	18.6	1091.0	-6114.8	-3218.1
	-7775.5	-116.4	29.8	576.1	-3444.4	7985.5
	-7776.1	-86.8	24.3	830.0	-4759.9	2408.9
	-7774.9	-146.2	35.5	315.1	-2089.5	13612.4
	-7778.8	40.3	0.4	1936.2	-10480.3	-21530.4
	-7777.5	-19.1	11.5	1421.3	-7809.9	-10326.8
165.	-7277.2	-301.8	65.9	-1042.4	-5696.4	-6881.4
	-7276.0	-361.3	77.1	-1557.4	-4870.2	-5491.6
	-7279.9	-174.7	42.0	63.8	-7466.5	-9850.9
	-7278.6	-234.2	53.1	-451.1	-6640.3	-8461.1
	-7279.3	-204.6	47.6	-197.2	-7047.2	-9152.9
	-7278.0	-264.1	58.8	-712.1	-6221.0	-7763.1
	-7281.9	-77.5	23.7	909.0	-8817.3	-12122.5
	-7280.7	-137.0	34.9	394.1	-7991.1	-10732.7
	-7279.1	-184.0	42.6	-15.2	-7420.7	-9634.5
	-7277.8	-243.5	53.8	-530.1	-6594.5	-8244.7
	-7281.7	-56.9	18.6	1091.0	-9190.8	-12604.1
	-7280.5	-116.4	29.8	576.1	-8364.6	-11214.3
	-7281.1	-86.8	24.3	830.0	-8771.5	-11906.1
	-7279.9	-146.2	35.5	315.1	-7945.3	-10516.3
	-7283.8	40.3	0.4	1936.2	-10541.6	-14875.6
	-7282.5	-19.1	11.5	1421.3	-9715.4	-13485.8
330.	-6782.2	-301.8	65.9	-1042.4	-16570.5	-56680.6
	-6781.0	-361.3	77.1	-1557.4	-17588.5	-65104.5
	-6784.9	-174.7	42.0	63.8	-14390.4	-38680.4
	-6783.6	-234.2	53.1	-451.1	-15408.4	-47104.4
	-6784.3	-204.6	47.6	-197.2	-14906.6	-42911.5
	-6783.0	-264.1	58.8	-712.1	-15924.6	-51335.4
	-6786.9	-77.5	23.7	909.0	-12726.6	-24911.3
	-6785.7	-137.0	34.9	394.1	-13744.6	-33335.3
	-6784.1	-184.0	42.6	-15.2	-14446.9	-39990.2
	-6782.8	-243.5	53.8	-530.1	-15464.9	-48414.1
	-6786.7	-56.9	18.6	1091.0	-12266.8	-21990.0
	-6785.5	-116.4	29.8	576.1	-13284.9	-30414.0
	-6786.1	-86.8	24.3	830.0	-12783.0	-26221.0
	-6784.9	-146.2	35.5	315.1	-13801.0	-34645.0
	-6788.8	40.3	0.4	1936.2	-10603.0	-8220.9
	-6787.5	-19.1	11.5	1421.3	-11621.0	-16644.9
Asta	109	nod	69	91		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ

0.	-8482.1	-218.2	19.6	-994.4	1861.1	36438.1
	-8486.9	-276.5	34.4	-1482.8	6514.0	47521.7
	-8471.8	-93.8	-12.1	56.9	-8129.8	12748.6
	-8476.6	-152.0	2.7	-431.4	-3476.9	23832.2
	-8474.2	-123.1	-4.6	-192.3	-5765.6	18320.0
	-8479.0	-181.3	10.2	-680.6	-1112.7	29403.6
	-8463.9	1.4	-36.2	859.1	-15756.5	-5369.5
	-8468.7	-56.9	-21.5	370.7	-11103.6	5714.1
	-8472.4	-102.7	-10.5	-10.1	-7651.3	14436.4
	-8477.3	-160.9	4.2	-498.4	-2998.3	25520.1
	-8462.2	21.8	-42.2	1041.3	-17642.1	-9253.1
	-8467.0	-36.5	-27.5	552.9	-12989.2	1830.5
	-8464.6	-7.5	-34.7	792.1	-15277.9	-3681.7
	-8469.4	-65.7	-20.0	303.7	-10625.0	7401.9
	-8454.3	116.9	-66.4	1843.4	-25268.8	-27371.2
	-8459.1	58.7	-51.7	1355.0	-20615.9	-16287.6
165.	-7987.1	-218.2	19.6	-994.4	-1376.4	429.5
	-7991.9	-276.5	34.4	-1482.8	842.6	1907.5
	-7976.8	-93.8	-12.1	56.9	-6140.8	-2729.3
	-7981.6	-152.0	2.7	-431.4	-3921.8	-1251.4
	-7979.2	-123.1	-4.6	-192.3	-5013.3	-1986.4
	-7984.0	-181.3	10.2	-680.6	-2794.4	-508.5
	-7968.9	1.4	-36.2	859.1	-9777.8	-5145.2
	-7973.7	-56.9	-21.5	370.7	-7558.8	-3667.3
	-7977.4	-102.7	-10.5	-10.1	-5911.2	-2504.6
	-7982.3	-160.9	4.2	-498.4	-3692.2	-1026.7
	-7967.2	21.8	-42.2	1041.3	-10675.6	-5663.5
	-7972.0	-36.5	-27.5	552.9	-8456.6	-4185.5
	-7969.6	-7.5	-34.7	792.1	-9548.1	-4920.6
	-7974.4	-65.7	-20.0	303.7	-7329.2	-3442.6
	-7959.3	116.9	-66.4	1843.4	-14312.6	-8079.4
	-7964.1	58.7	-51.7	1355.0	-12093.6	-6601.5
330.	-7492.1	-218.2	19.6	-994.4	-4613.9	-35579.0
	-7496.9	-276.5	34.4	-1482.8	-4828.8	-43706.8
	-7481.8	-93.8	-12.1	56.9	-4151.8	-18207.2
	-7486.6	-152.0	2.7	-431.4	-4366.8	-26335.0
	-7484.2	-123.1	-4.6	-192.3	-4261.1	-22292.8
	-7489.0	-181.3	10.2	-680.6	-4476.0	-30420.6
	-7473.9	1.4	-36.2	859.1	-3799.0	-4920.9
	-7478.7	-56.9	-21.5	370.7	-4014.0	-13048.7
	-7482.4	-102.7	-10.5	-10.1	-4171.1	-19445.7
	-7487.3	-160.9	4.2	-498.4	-4386.1	-27573.5
	-7472.2	21.8	-42.2	1041.3	-3709.1	-2073.8
	-7477.0	-36.5	-27.5	552.9	-3924.1	-10201.6
	-7474.6	-7.5	-34.7	792.1	-3818.3	-6159.4
	-7479.4	-65.7	-20.0	303.7	-4033.3	-14287.2
	-7464.3	116.9	-66.4	1843.4	-3356.3	11212.4
	-7469.1	58.7	-51.7	1355.0	-3571.3	3084.7
Asta	110	70	92			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-5748.2	489.9	349.8	-986.5	38281.6	-32794.5
	-5743.8	445.0	394.6	-1475.9	48739.5	-23376.9
	-5757.5	585.9	253.7	64.3	15822.6	-52926.6
	-5753.0	541.0	298.5	-425.1	26280.5	-43509.1
	-5755.3	563.3	276.4	-184.1	21137.4	-48190.1
	-5750.9	518.4	321.2	-673.5	31595.3	-38772.5
	-5764.6	659.3	180.4	866.8	-1321.5	-68322.3
	-5760.2	614.4	225.1	377.4	9136.4	-58904.7
	-5756.1	579.1	259.2	-15.0	17096.3	-51501.6
	-5751.7	534.2	303.9	-504.4	27554.2	-42084.0
	-5765.3	675.1	163.1	1035.8	-5362.7	-71633.7
	-5760.9	630.2	207.8	546.4	5095.2	-62216.1
	-5763.2	652.5	185.8	787.4	-47.9	-66897.2
	-5758.8	607.6	230.6	298.0	10410.0	-57479.6
	-5772.5	748.5	89.7	1838.2	-22506.9	-87029.3
	-5768.1	703.6	134.5	1348.8	-12049.0	-77611.7
165.	-5253.2	489.9	349.8	-986.5	-19436.5	48041.1
	-5248.8	445.0	394.6	-1475.9	-16361.9	50051.3
	-5262.5	585.9	253.7	64.3	-26039.3	43744.1
	-5258.0	541.0	298.5	-425.1	-22964.8	45754.2
	-5260.3	563.3	276.4	-184.1	-24476.8	44755.1
	-5255.9	518.4	321.2	-673.5	-21402.2	46765.2
	-5269.6	659.3	180.4	866.8	-31079.6	40458.0
	-5265.2	614.4	225.1	377.4	-28005.1	42468.1
	-5261.1	579.1	259.2	-15.0	-25667.5	44048.1
	-5256.7	534.2	303.9	-504.4	-22593.0	46058.2
	-5270.3	675.1	163.1	1035.8	-32270.4	39751.0
	-5265.9	630.2	207.8	546.4	-29195.8	41761.1
	-5268.2	652.5	185.8	787.4	-30707.8	40762.0
	-5263.8	607.6	230.6	298.0	-27633.3	42772.2
	-5277.5	748.5	89.7	1838.2	-37310.7	36464.9
	-5273.1	703.6	134.5	1348.8	-34236.1	38475.1
330.	-4758.2	489.9	349.8	-986.5	-77154.5	128876.8
	-4753.8	445.0	394.6	-1475.9	-81463.3	123479.5
	-4767.5	585.9	253.7	64.3	-67901.3	140414.7
	-4763.0	541.0	298.5	-425.1	-72210.1	135017.4
	-4765.3	563.3	276.4	-184.1	-70091.0	137700.3
	-4760.9	518.4	321.2	-673.5	-74399.7	132303.0
	-4774.6	659.3	180.4	866.8	-60837.7	149238.2
	-4770.2	614.4	225.1	377.4	-65146.5	143840.9

	-4766.1	579.1	259.2	-15.0	-68431.3	139597.7
	-4761.7	534.2	303.9	-504.4	-72740.1	134200.4
	-4775.3	675.1	163.1	1035.8	-59178.1	151135.7
	-4770.9	630.2	207.8	546.4	-63486.8	145738.4
	-4773.2	652.5	185.8	787.4	-61367.7	148421.2
	-4768.8	607.6	230.6	298.0	-65676.5	143023.9
	-4782.5	748.5	89.7	1838.2	-52114.5	159959.2
	-4778.1	703.6	134.5	1348.8	-56423.3	154561.9
Asta	111	nod1	71	93		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-9784.1	1039.0	86.5	-1026.6	15457.2	-84621.6
	-9765.9	996.6	150.1	-1536.4	28329.4	-77164.6
	-9823.1	1129.6	-50.2	66.4	-12185.5	-100543.5
	-9804.9	1087.2	13.4	-443.3	686.8	-93086.6
	-9813.9	1108.3	-17.9	-191.6	-5644.8	-96800.8
	-9795.7	1065.9	45.8	-701.4	7227.5	-89343.9
	-9852.9	1198.9	-154.6	901.4	-33287.4	-112722.8
	-9834.7	1156.4	-90.9	391.7	-20415.2	-105265.8
	-9820.4	1123.3	-42.4	-15.9	-10618.8	-99444.2
	-9802.1	1080.9	21.2	-525.6	2253.5	-91987.2
	-9859.3	1213.9	-179.1	1077.2	-38261.4	-115366.1
	-9841.1	1171.5	-115.5	567.4	-25389.2	-107909.2
	-9850.2	1192.6	-146.8	819.1	-31720.7	-111623.5
	-9831.9	1150.2	-83.1	309.4	-18848.5	-104166.5
	-9889.1	1283.2	-283.5	1912.2	-59363.3	-127545.4
	-9870.9	1240.7	-219.8	1402.4	-46491.1	-120088.5
165.	-9289.1	1039.0	86.5	-1026.6	1192.2	86817.7
	-9270.9	996.6	150.1	-1536.4	3563.4	87275.4
	-9328.1	1129.6	-50.2	66.4	-3899.5	85838.4
	-9309.9	1087.2	13.4	-443.3	-1528.3	86296.0
	-9318.9	1108.3	-17.9	-191.6	-2694.7	86069.4
	-9300.7	1065.9	45.8	-701.4	-323.5	86527.1
	-9357.9	1198.9	-154.6	901.4	-7786.4	85090.0
	-9339.7	1156.4	-90.9	391.7	-5415.2	85547.7
	-9325.4	1123.3	-42.4	-15.9	-3614.5	85904.8
	-9307.1	1080.9	21.2	-525.6	-1243.3	86362.5
	-9364.3	1213.9	-179.1	1077.2	-8706.2	84925.4
	-9346.1	1171.5	-115.5	567.4	-6335.0	85383.1
	-9355.2	1192.6	-146.8	819.1	-7501.4	85156.5
	-9336.9	1150.2	-83.1	309.4	-5130.3	85614.1
	-9394.1	1283.2	-283.5	1912.2	-12593.1	84177.1
	-9375.9	1240.7	-219.8	1402.4	-10222.0	84634.8
330.	-8794.1	1039.0	86.5	-1026.6	-13072.8	258257.0
	-8775.9	996.6	150.1	-1536.4	-21202.6	251715.4
	-8833.1	1129.6	-50.2	66.4	4386.5	272220.2
	-8814.9	1087.2	13.4	-443.3	-3743.4	265678.6
	-8823.9	1108.3	-17.9	-191.6	255.3	268939.6
	-8805.7	1065.9	45.8	-701.4	-7874.6	262398.0
	-8862.9	1198.9	-154.6	901.4	17714.6	282902.9
	-8844.7	1156.4	-90.9	391.7	9584.7	276361.3
	-8830.4	1123.3	-42.4	-15.9	3389.7	271253.8
	-8812.1	1080.9	21.2	-525.6	-4740.1	264712.1
	-8869.3	1213.9	-179.1	1077.2	20849.0	285217.0
	-8851.1	1171.5	-115.5	567.4	12719.1	278675.4
	-8860.2	1192.6	-146.8	819.1	16717.8	281936.4
	-8841.9	1150.2	-83.1	309.4	8587.9	275394.8
	-8899.1	1283.2	-283.5	1912.2	34177.1	295899.6
	-8880.9	1240.7	-219.8	1402.4	26047.2	289358.0
Asta	112	nod1	50	94		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-11398.8	680.9	-179.1	-1061.9	-6674.3	-46712.9
	-11396.5	648.2	-130.7	-1588.9	4434.6	-41129.6
	-11403.7	750.6	-283.0	69.4	-30530.4	-58627.1
	-11401.5	717.9	-234.6	-457.7	-19421.5	-53043.8
	-11402.5	734.2	-258.4	-198.8	-24885.3	-55829.2
	-11400.3	701.5	-210.0	-725.8	-13776.4	-50245.9
	-11407.5	803.9	-362.4	932.5	-48741.4	-67743.4
	-11405.3	771.3	-314.0	405.4	-37632.4	-62160.1
	-11403.7	746.2	-277.2	-14.4	-29190.8	-57886.1
	-11401.4	713.6	-228.8	-541.4	-18081.9	-52302.8
	-11408.6	816.0	-381.1	1116.9	-53046.9	-69800.2
	-11406.4	783.3	-332.7	589.8	-41937.9	-64216.9
	-11407.4	799.6	-356.5	848.7	-47401.8	-67002.4
	-11405.2	766.9	-308.1	321.7	-36292.9	-61419.1
	-11412.4	869.3	-460.5	1980.0	-71257.9	-78916.5
	-11410.2	836.6	-412.1	1452.9	-60148.9	-73333.2
165.	-10903.8	680.9	-179.1	-1061.9	22877.5	65629.0
	-10901.5	648.2	-130.7	-1588.9	26001.4	65819.9
	-10908.7	750.6	-283.0	69.4	16170.1	65219.3
	-10906.5	717.9	-234.6	-457.7	19293.9	65410.1
	-10907.5	734.2	-258.4	-198.8	17757.3	65316.5
	-10905.3	701.5	-210.0	-725.8	20881.1	65507.4
	-10912.5	803.9	-362.4	932.5	11049.8	64906.8
	-10910.3	771.3	-314.0	405.4	14173.6	65097.6
	-10908.7	746.2	-277.2	-14.4	16545.2	65243.3
	-10906.4	713.6	-228.8	-541.4	19669.0	65434.2
	-10913.6	816.0	-381.1	1116.9	9837.7	64833.6
	-10911.4	783.3	-332.7	589.8	12961.6	65024.4
	-10912.4	799.6	-356.5	848.7	11425.0	64930.8

		-10910.2	766.9	-308.1	321.7	14548.8	65121.7
		-10917.4	869.3	-460.5	1980.0	4717.5	64521.1
		-10915.2	836.6	-412.1	1452.9	7841.3	64711.9
330.		-10408.8	680.9	-179.1	-1061.9	52429.4	177970.9
		-10406.5	648.2	-130.7	-1588.9	47568.1	172769.3
		-10413.7	750.6	-283.0	69.4	62870.5	189065.6
		-10411.5	717.9	-234.6	-457.7	58009.2	183864.0
		-10412.5	734.2	-258.4	-198.8	60399.9	186462.2
		-10410.3	701.5	-210.0	-725.8	55538.6	181260.6
		-10417.5	803.9	-362.4	932.5	70841.0	197556.9
		-10415.3	771.3	-314.0	405.4	65979.7	192355.3
		-10413.7	746.2	-277.2	-14.4	62281.3	188372.7
		-10411.4	713.6	-228.8	-541.4	57420.0	183171.1
		-10418.6	816.0	-381.1	1116.9	72722.4	199467.4
		-10416.4	783.3	-332.7	589.8	67861.1	194265.8
		-10417.4	799.6	-356.5	848.7	70251.7	196864.0
		-10415.2	766.9	-308.1	321.7	65390.4	191662.4
		-10422.4	869.3	-460.5	1980.0	80692.8	207958.7
		-10420.2	836.6	-412.1	1452.9	75831.5	202757.1
Asta	113	nodì	49	95			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-10310.2	-619.8	86.6	-1070.5	20353.7	53487.1	
	-10300.5	-654.8	104.2	-1601.8	24069.3	59341.2	
	-10330.7	-545.2	48.9	67.9	12402.3	41024.1	
	-10321.1	-580.2	66.5	-463.4	16117.9	46878.2	
	-10325.9	-562.7	57.8	-200.6	14283.5	43943.5	
	-10316.3	-597.7	75.4	-731.9	17999.0	49797.7	
	-10346.5	-488.1	20.0	937.8	6332.1	31480.5	
	-10336.8	-523.2	37.7	406.5	10047.6	37334.7	
	-10329.3	-550.1	50.2	-14.9	12675.9	41832.6	
	-10319.7	-585.1	67.8	-546.1	16391.4	47686.7	
	-10349.9	-475.5	12.4	1123.5	4724.4	29369.6	
	-10340.2	-510.5	30.1	592.3	8440.0	35223.7	
	-10345.1	-493.0	21.3	855.0	6605.6	32289.0	
	-10335.4	-528.0	39.0	323.7	10321.1	38143.2	
	-10365.6	-418.4	-16.4	1993.4	-1345.8	19826.0	
	-10356.0	-453.4	1.2	1462.1	2369.7	25680.2	
165.	-9815.2	-619.8	86.6	-1070.5	6064.4	-48776.9	
	-9805.5	-654.8	104.2	-1601.8	6869.3	-48700.7	
	-9835.7	-545.2	48.9	67.9	4340.6	-48939.1	
	-9826.1	-580.2	66.5	-463.4	5145.6	-48862.9	
	-9830.9	-562.7	57.8	-200.6	4748.8	-48900.9	
	-9821.3	-597.7	75.4	-731.9	5553.8	-48824.7	
	-9851.5	-488.1	20.0	937.8	3025.1	-49063.1	
	-9841.8	-523.2	37.7	406.5	3830.1	-48987.0	
	-9834.3	-550.1	50.2	-14.9	4399.8	-48928.4	
	-9824.7	-585.1	67.8	-546.1	5204.8	-48852.3	
	-9854.9	-475.5	12.4	1123.5	2676.1	-49090.7	
	-9845.2	-510.5	30.1	592.3	3481.1	-49014.5	
	-9850.1	-493.0	21.3	855.0	3084.3	-49052.5	
	-9840.4	-528.0	39.0	323.7	3889.3	-48976.3	
	-9870.6	-418.4	-16.4	1993.4	1360.6	-49214.7	
	-9861.0	-453.4	1.2	1462.1	2165.6	-49138.5	
330.	-9320.2	-619.8	86.6	-1070.5	-8225.0	-151040.8	
	-9310.5	-654.8	104.2	-1601.8	-10330.7	-156742.7	
	-9340.7	-545.2	48.9	67.9	-3721.1	-138902.2	
	-9331.1	-580.2	66.5	-463.4	-5826.7	-144604.1	
	-9335.9	-562.7	57.8	-200.6	-4785.8	-141745.3	
	-9326.3	-597.7	75.4	-731.9	-6891.4	-147447.2	
	-9356.5	-488.1	20.0	937.8	-281.8	-129606.7	
	-9346.8	-523.2	37.7	406.5	-2387.5	-135308.6	
	-9339.3	-550.1	50.2	-14.9	-3876.2	-139689.5	
	-9329.7	-585.1	67.8	-546.1	-5981.8	-145391.3	
	-9359.9	-475.5	12.4	1123.5	627.8	-127550.9	
	-9350.2	-510.5	30.1	592.3	-1477.8	-133252.7	
	-9355.1	-493.0	21.3	855.0	-436.9	-130394.0	
	-9345.4	-528.0	39.0	323.7	-2542.5	-136095.8	
	-9375.6	-418.4	-16.4	1993.4	4067.0	-118255.4	
	-9366.0	-453.4	1.2	1462.1	1961.4	-123957.2	
Asta	114	nodì	57	96			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-10714.4	-826.5	25.6	-1074.8	4902.6	91853.6	
	-10702.2	-880.6	42.8	-1607.9	8443.2	100856.3	
	-10740.5	-711.1	-11.3	69.4	-2682.1	72648.1	
	-10728.3	-765.2	5.9	-463.6	858.5	81650.8	
	-10734.4	-738.2	-2.6	-200.5	-885.9	77156.9	
	-10722.2	-792.3	14.7	-733.5	2654.7	86159.6	
	-10760.5	-622.9	-39.5	943.8	-8470.6	57951.5	
	-10748.3	-676.9	-22.2	410.8	-4930.0	66954.2	
	-10738.6	-719.4	-10.2	-17.1	-2462.2	74024.8	
	-10726.4	-773.5	7.0	-550.1	1078.3	83027.5	
	-10764.7	-604.0	-47.1	1127.1	-10046.9	54819.4	
	-10752.5	-658.1	-29.9	594.1	-6506.4	63822.1	
	-10758.6	-631.1	-38.4	857.3	-8250.7	59328.2	
	-10746.4	-685.2	-21.1	324.2	-4710.2	68330.9	
	-10784.7	-515.8	-75.3	2001.5	-15835.4	40122.7	
	-10772.5	-569.8	-58.0	1468.5	-12294.8	49125.5	
165.	-10219.4	-826.5	25.6	-1074.8	680.2	-44521.0	
	-10207.2	-880.6	42.8	-1607.9	1378.8	-44441.4	

	-10245.5	-711.1	-11.3	69.4	-817.0	-44691.0
	-10233.3	-765.2	5.9	-463.6	-118.4	-44611.3
	-10239.4	-738.2	-2.6	-200.5	-462.0	-44651.1
	-10227.2	-792.3	14.7	-733.5	236.6	-44571.4
	-10265.5	-622.9	-39.5	943.8	-1959.1	-44821.0
	-10253.3	-676.9	-22.2	410.8	-1260.5	-44741.3
	-10243.6	-719.4	-10.2	-17.1	-778.9	-44677.3
	-10231.4	-773.5	7.0	-550.1	-80.3	-44597.6
	-10269.7	-604.0	-47.1	1127.1	-2276.1	-44847.2
	-10257.5	-658.1	-29.9	594.1	-1577.5	-44767.6
	-10263.6	-631.1	-38.4	857.3	-1921.1	-44807.3
	-10251.4	-685.2	-21.1	324.2	-1222.5	-44727.7
	-10289.7	-515.8	-75.3	2001.5	-3418.3	-44977.2
	-10277.5	-569.8	-58.0	1468.5	-2719.7	-44897.6
330.	-9724.4	-826.5	25.6	-1074.8	-3542.3	-180895.7
	-9712.2	-880.6	42.8	-1607.9	-5685.6	-189739.0
	-9750.5	-711.1	-11.3	69.4	1048.1	-162030.1
	-9738.3	-765.2	5.9	-463.6	-1095.3	-170873.4
	-9744.4	-738.2	-2.6	-200.5	-38.1	-166459.1
	-9732.2	-792.3	14.7	-733.5	-2181.5	-175302.4
	-9770.5	-622.9	-39.5	943.8	4552.3	-147593.4
	-9758.3	-676.9	-22.2	410.8	2408.9	-156436.8
	-9748.6	-719.4	-10.2	-17.1	904.4	-163379.5
	-9736.4	-773.5	7.0	-550.1	-1239.0	-172222.8
	-9774.7	-604.0	-47.1	1127.1	5494.8	-144513.9
	-9762.5	-658.1	-29.9	594.1	3351.4	-153357.2
	-9768.6	-631.1	-38.4	857.3	4408.5	-148942.8
	-9756.4	-685.2	-21.1	324.2	2265.2	-157786.2
	-9794.7	-515.8	-75.3	2001.5	8998.9	-130077.2
	-9782.5	-569.8	-58.0	1468.5	6855.6	-138920.6
Asta	115	nod	60	97		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-10762.3	609.8	-8.6	-1070.8	-2082.6	-55782.3
	-10774.0	555.7	-8.4	-1604.0	-2026.2	-46777.5
	-10737.2	725.2	-8.9	73.5	-2189.7	-74993.9
	-10748.9	671.1	-8.7	-459.8	-2133.2	-65989.0
	-10743.1	698.1	-8.8	-195.9	-2151.3	-70484.4
	-10754.8	644.0	-8.6	-729.1	-2094.9	-61479.6
	-10718.0	813.4	-9.1	948.4	-2258.3	-89696.0
	-10729.7	759.4	-8.9	415.1	-2201.9	-80691.1
	-10739.1	716.9	-11.1	-21.5	-2636.8	-73614.3
	-10750.9	662.8	-10.9	-554.8	-2580.4	-64609.4
	-10714.0	832.2	-11.4	1122.8	-2743.9	-92825.8
	-10725.8	778.2	-11.2	589.5	-2687.5	-83821.0
	-10719.9	805.1	-11.3	853.4	-2705.5	-88316.4
	-10731.7	751.1	-11.1	320.2	-2649.1	-79311.6
	-10694.8	920.5	-11.6	1997.7	-2812.6	-107528.0
	-10706.6	866.4	-11.4	1464.4	-2756.2	-98523.1
165.	-10267.3	609.8	-8.6	-1070.8	-666.9	44835.4
	-10279.0	555.7	-8.4	-1604.0	-642.5	44918.8
	-10242.2	725.2	-8.9	73.5	-716.1	44657.1
	-10253.9	671.1	-8.7	-459.8	-691.6	44740.5
	-10248.1	698.1	-8.8	-195.9	-702.0	44699.0
	-10259.8	644.0	-8.6	-729.1	-677.5	44782.4
	-10223.0	813.4	-9.1	948.4	-751.1	44520.7
	-10234.7	759.4	-8.9	415.1	-726.6	44604.2
	-10244.1	716.9	-11.1	-21.5	-808.5	44669.7
	-10255.9	662.8	-10.9	-554.8	-784.0	44753.1
	-10219.0	832.2	-11.4	1122.8	-857.6	44491.4
	-10230.8	778.2	-11.2	589.5	-833.2	44574.8
	-10224.9	805.1	-11.3	853.4	-843.5	44533.3
	-10236.7	751.1	-11.1	320.2	-819.1	44616.7
	-10199.8	920.5	-11.6	1997.7	-892.7	44355.0
	-10211.6	866.4	-11.4	1464.4	-868.2	44438.4
330.	-9772.3	609.8	-8.6	-1070.8	759.9	145453.0
	-9784.0	555.7	-8.4	-1604.0	752.5	136615.1
	-9747.2	725.2	-8.9	73.5	743.7	164308.0
	-9758.9	671.1	-8.7	-459.8	736.2	155470.1
	-9753.1	698.1	-8.8	-195.9	758.6	159882.4
	-9764.8	644.0	-8.6	-729.1	751.1	151044.4
	-9728.0	813.4	-9.1	948.4	742.3	178737.4
	-9739.7	759.4	-8.9	415.1	734.8	169899.4
	-9749.1	716.9	-11.1	-21.5	1033.7	162953.6
	-9760.9	662.8	-10.9	-554.8	1026.2	154115.6
	-9724.0	832.2	-11.4	1122.8	1017.4	181808.6
	-9735.8	778.2	-11.2	589.5	1009.9	172970.7
	-9729.9	805.1	-11.3	853.4	1032.3	177383.0
	-9741.7	751.1	-11.1	320.2	1024.8	168545.0
	-9704.8	920.5	-11.6	1997.7	1016.1	196238.0
	-9716.6	866.4	-11.4	1464.4	1008.6	187400.0
Asta	116	nod	48	98		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-10341.1	479.2	51.0	-1066.7	12784.3	-30094.6
	-10351.3	444.1	50.9	-1598.0	12718.1	-24232.1
	-10319.2	553.9	51.4	72.0	12939.0	-42574.9
	-10329.5	518.8	51.2	-459.3	12872.8	-36712.3
	-10324.4	536.4	51.3	-196.1	12909.5	-39652.1
	-10334.6	501.3	51.2	-727.5	12843.3	-33789.5
	-10302.5	611.1	51.7	942.6	13064.2	-52132.3

	-10312.8	576.0	51.6	411.3	12998.0	-46269.8
	-10320.8	549.0	49.6	-19.4	12508.2	-41754.0
	-10331.0	513.9	49.4	-550.7	12442.0	-35891.5
	-10298.9	623.7	49.9	1119.3	12662.8	-54234.3
	-10309.2	588.6	49.8	588.0	12596.7	-48371.7
	-10304.0	606.2	49.9	851.2	12633.4	-51311.5
	-10314.3	571.1	49.7	319.8	12567.2	-45448.9
	-10282.2	680.9	50.3	1989.9	12788.1	-63791.8
	-10292.4	645.8	50.1	1458.5	12721.9	-57929.2
165.	-9846.1	479.2	51.0	-1066.7	4316.8	48970.5
	-9856.3	444.1	50.9	-1598.0	4274.4	49043.3
	-9824.2	553.9	51.4	72.0	4410.8	48815.4
	-9834.5	518.8	51.2	-459.3	4368.3	48888.1
	-9829.4	536.4	51.3	-196.1	4390.4	48851.8
	-9839.6	501.3	51.2	-727.5	4348.0	48924.5
	-9807.5	611.1	51.7	942.6	4484.4	48696.7
	-9817.8	576.0	51.6	411.3	4442.0	48769.4
	-9825.8	549.0	49.6	-19.4	4378.1	48826.4
	-9836.0	513.9	49.4	-550.7	4335.7	48899.1
	-9803.9	623.7	49.9	1119.3	4472.1	48671.2
	-9814.2	588.6	49.8	588.0	4429.6	48744.0
	-9809.0	606.2	49.9	851.2	4451.7	48707.7
	-9819.3	571.1	49.7	319.8	4409.3	48780.4
	-9787.2	680.9	50.3	1989.9	4545.7	48552.5
	-9797.4	645.8	50.1	1458.5	4503.2	48625.3
330.	-9351.1	479.2	51.0	-1066.7	-4060.2	128035.6
	-9361.3	444.1	50.9	-1598.0	-4078.9	122318.6
	-9329.2	553.9	51.4	72.0	-4024.9	140205.6
	-9339.5	518.8	51.2	-459.3	-4043.6	134488.6
	-9334.4	536.4	51.3	-196.1	-4038.2	137355.6
	-9344.6	501.3	51.2	-727.5	-4056.9	131638.6
	-9312.5	611.1	51.7	942.6	-4002.9	149525.7
	-9322.8	576.0	51.6	411.3	-4021.6	143808.6
	-9330.8	549.0	49.6	-19.4	-3844.4	139406.8
	-9341.0	513.9	49.4	-550.7	-3863.1	133689.7
	-9308.9	623.7	49.9	1119.3	-3809.2	151576.8
	-9319.2	588.6	49.8	588.0	-3827.9	145859.7
	-9314.0	606.2	49.9	851.2	-3822.4	148726.8
	-9324.3	571.1	49.7	319.8	-3841.1	143009.8
	-9292.2	680.9	50.3	1989.9	-3787.2	160896.8
	-9302.4	645.8	50.1	1458.5	-3805.9	155179.8
Asta	117	nod	47	99		
PROGR.	NORM	TY	TZ	TORS	MY	MZ
0.	-11433.1	-802.5	-354.0	-1054.7	-46827.8	67145.2
	-11430.8	-834.6	-389.1	-1582.3	-54846.9	72591.6
	-11438.1	-734.3	-278.5	76.7	-29603.5	55535.6
	-11435.7	-766.3	-313.6	-450.9	-37622.6	60982.0
	-11436.9	-750.3	-296.2	-190.3	-33644.2	58256.4
	-11434.5	-782.3	-331.3	-717.8	-41663.3	63702.7
	-11441.8	-682.0	-220.7	941.2	-16419.9	46646.8
	-11439.4	-714.1	-255.8	413.6	-24439.0	52093.1
	-11438.5	-739.2	-286.8	-24.8	-31498.3	56379.9
	-11436.2	-771.2	-321.9	-552.3	-39517.4	61826.3
	-11443.4	-671.0	-211.3	1106.7	-14274.0	44770.3
	-11441.1	-703.0	-246.4	579.1	-22293.1	50216.7
	-11442.3	-686.9	-229.0	839.7	-18314.8	47491.0
	-11439.9	-719.0	-264.1	312.2	-26333.9	52937.4
	-11447.2	-618.7	-153.5	1971.2	-1090.5	35881.4
	-11444.8	-650.7	-188.6	1443.6	-9109.6	41327.8
165.	-10938.1	-802.5	-354.0	-1054.7	11577.6	-65272.7
	-10935.8	-834.6	-389.1	-1582.3	9358.5	-65109.6
	-10943.1	-734.3	-278.5	76.7	16343.7	-65622.5
	-10940.7	-766.3	-313.6	-450.9	14124.6	-65459.4
	-10941.9	-750.3	-296.2	-190.3	15225.6	-65540.0
	-10939.5	-782.3	-331.3	-717.8	13006.5	-65376.9
	-10946.8	-682.0	-220.7	941.2	19991.7	-65889.8
	-10944.4	-714.1	-255.8	413.6	17772.6	-65726.7
	-10943.5	-739.2	-286.8	-24.8	15817.4	-65588.2
	-10941.2	-771.2	-321.9	-552.3	13598.4	-65425.1
	-10948.4	-671.0	-211.3	1106.7	20583.6	-65938.0
	-10946.1	-703.0	-246.4	579.1	18364.5	-65774.9
	-10947.3	-686.9	-229.0	839.7	19465.4	-65855.5
	-10944.9	-719.0	-264.1	312.2	17246.4	-65692.5
	-10952.2	-618.7	-153.5	1971.2	24231.6	-66205.3
	-10949.8	-650.7	-188.6	1443.6	22012.5	-66042.2
330.	-10443.1	-802.5	-354.0	-1054.7	69982.9	-197690.7
	-10440.8	-834.6	-389.1	-1582.3	73563.8	-202810.9
	-10448.1	-734.3	-278.5	76.7	62290.9	-186780.6
	-10445.7	-766.3	-313.6	-450.9	65871.8	-191900.8
	-10446.9	-750.3	-296.2	-190.3	64095.3	-189336.5
	-10444.5	-782.3	-331.3	-717.8	67676.3	-194456.6
	-10451.8	-682.0	-220.7	941.2	56403.3	-178426.4
	-10449.4	-714.1	-255.8	413.6	59984.3	-183546.5
	-10448.5	-739.2	-286.8	-24.8	63133.2	-187556.3
	-10446.2	-771.2	-321.9	-552.3	66714.1	-192676.5
	-10453.4	-671.0	-211.3	1106.7	55441.2	-176646.2
	-10451.1	-703.0	-246.4	579.1	59022.1	-181766.4
	-10452.3	-686.9	-229.0	839.7	57245.6	-179202.1
	-10449.9	-719.0	-264.1	312.2	60826.6	-184322.3
	-10457.2	-618.7	-153.5	1971.2	49553.6	-168292.0

	-10454.8	-650.7	-188.6	1443.6	53134.6	-173412.1
Asta	118	nod1	86	100		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-9855.4	-1205.7	-139.8	-1021.2	-30193.8	113664.0
	-9873.7	-1247.7	-186.3	-1531.2	-39550.3	121016.4
	-9816.4	-1116.2	-39.9	72.1	-10093.5	97975.1
	-9834.6	-1158.1	-86.4	-437.9	-19450.0	105327.5
	-9825.5	-1137.2	-63.3	-185.4	-14807.8	101659.6
	-9843.8	-1179.2	-109.8	-695.3	-24164.4	109012.0
	-9786.5	-1047.7	36.6	907.9	5292.5	85970.6
	-9804.8	-1089.7	-9.9	398.0	-4064.0	93323.0
	-9819.2	-1122.7	-50.9	-21.5	-12312.5	99120.1
	-9837.5	-1164.6	-97.4	-531.4	-21669.0	106472.5
	-9780.2	-1033.2	49.1	1071.8	7787.8	83431.2
	-9798.5	-1075.1	2.6	561.9	-1568.7	90783.6
	-9789.3	-1054.2	25.6	814.4	3073.5	87115.7
	-9807.6	-1096.1	-20.9	304.4	-6283.1	94468.1
	-9750.3	-964.7	125.6	1907.7	23173.8	71426.7
	-9768.6	-1006.6	79.1	1397.7	13817.3	78779.1
165.	-9360.4	-1205.7	-139.8	-1021.2	-7125.2	-85277.3
	-9378.7	-1247.7	-186.3	-1531.2	-8805.1	-84846.8
	-9321.4	-1116.2	-39.9	72.1	-3515.9	-86197.7
	-9339.6	-1158.1	-86.4	-437.9	-5195.8	-85767.2
	-9330.5	-1137.2	-63.3	-185.4	-4362.2	-85981.1
	-9348.8	-1179.2	-109.8	-695.3	-6042.1	-85550.6
	-9291.5	-1047.7	36.6	907.9	-752.9	-86901.5
	-9309.8	-1089.7	-9.9	398.0	-2432.8	-86471.1
	-9324.2	-1122.7	-50.9	-21.5	-3921.3	-86123.2
	-9342.5	-1164.6	-97.4	-531.4	-5601.2	-85692.7
	-9285.2	-1033.2	49.1	1071.8	-312.0	-87043.6
	-9303.5	-1075.1	2.6	561.9	-1991.9	-86613.1
	-9294.3	-1054.2	25.6	814.4	-1158.3	-86827.0
	-9312.6	-1096.1	-20.9	304.4	-2838.2	-86396.6
	-9255.3	-964.7	125.6	1907.7	2451.0	-87747.5
330.	-9273.6	-1006.6	79.1	1397.7	771.1	-87317.0
	-8865.4	-1205.7	-139.8	-1021.2	15943.4	-284218.6
	-8883.7	-1247.7	-186.3	-1531.2	21940.1	-290710.0
	-8826.4	-1116.2	-39.9	72.1	3061.7	-270370.5
	-8844.6	-1158.1	-86.4	-437.9	9058.4	-276861.9
	-8835.5	-1137.2	-63.3	-185.4	6083.5	-273621.8
	-8853.8	-1179.2	-109.8	-695.3	12080.2	-280113.2
	-8796.5	-1047.7	36.6	907.9	-6798.3	-259773.7
	-8814.8	-1089.7	-9.9	398.0	-801.6	-266265.1
	-8829.2	-1122.7	-50.9	-21.5	4469.9	-271366.5
	-8847.5	-1164.6	-97.4	-531.4	10466.6	-277857.9
	-8790.2	-1033.2	49.1	1071.8	-8411.8	-257518.4
	-8808.5	-1075.1	2.6	561.9	-2415.1	-264009.8
	-8799.3	-1054.2	25.6	814.4	-5390.0	-260769.7
	-8817.6	-1096.1	-20.9	304.4	606.7	-267261.2
	-8760.3	-964.7	125.6	1907.7	-18271.8	-246921.6
	-8778.6	-1006.6	79.1	1397.7	-12275.1	-253413.0
Asta	119	nod1	61	101		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-11724.2	1145.7	143.5	-1074.0	29820.7	-116584.6
	-11728.0	1128.6	142.5	-1606.9	29647.5	-113750.3
	-11716.1	1182.0	145.6	64.8	30201.8	-122596.0
	-11719.9	1164.9	144.7	-468.2	30028.5	-119761.7
	-11718.0	1173.5	145.1	-202.1	30114.6	-121194.6
	-11721.8	1156.4	144.2	-735.1	29941.3	-118360.3
	-11710.0	1209.8	147.3	936.7	30495.7	-127206.1
	-11713.7	1192.7	146.3	403.7	30322.4	-124371.8
	-11716.8	1180.0	144.8	-12.7	30049.0	-122268.7
	-11720.5	1162.9	143.8	-545.6	29875.7	-119434.4
	-11708.7	1216.3	147.0	1126.1	30430.1	-128280.1
	-11712.5	1199.2	146.0	593.2	30256.8	-125445.8
	-11710.6	1207.8	146.5	859.2	30342.9	-126878.8
	-11714.4	1190.7	145.5	326.2	30169.6	-124044.5
	-11702.5	1244.1	148.6	1998.0	30723.9	-132890.2
	-11706.3	1227.0	147.6	1465.0	30550.7	-130055.9
165.	-11229.2	1145.7	143.5	-1074.0	6171.9	72461.6
	-11233.0	1128.6	142.5	-1606.9	6159.2	72474.9
	-11221.1	1182.0	145.6	64.8	6201.7	72433.2
	-11224.9	1164.9	144.7	-468.2	6189.1	72446.5
	-11223.0	1173.5	145.1	-202.1	6195.0	72440.1
	-11226.8	1156.4	144.2	-735.1	6182.4	72453.4
	-11215.0	1209.8	147.3	936.7	6224.9	72411.7
	-11218.7	1192.7	146.3	403.7	6212.2	72425.0
	-11221.8	1180.0	144.8	-12.7	6124.1	72435.1
	-11225.5	1162.9	143.8	-545.6	6111.4	72448.4
	-11213.7	1216.3	147.0	1126.1	6154.0	72406.8
	-11217.5	1199.2	146.0	593.2	6141.3	72420.0
	-11215.6	1207.8	146.5	859.2	6147.2	72413.7
	-11219.4	1190.7	145.5	326.2	6134.6	72426.9
	-11207.5	1244.1	148.6	1998.0	6177.1	72385.3
	-11211.3	1227.0	147.6	1465.0	6164.4	72398.6
330.	-10734.2	1145.7	143.5	-1074.0	-17530.0	261507.7
	-10738.0	1128.6	142.5	-1606.9	-17382.1	258700.0
	-10726.1	1182.0	145.6	64.8	-17851.6	267462.4
	-10729.9	1164.9	144.7	-468.2	-17703.7	264654.7

		-10728.0	1173.5	145.1	-202.1	-17777.6	266074.8
		-10731.8	1156.4	144.2	-735.1	-17629.7	263267.1
		-10720.0	1209.8	147.3	936.7	-18099.2	272029.5
		-10723.7	1192.7	146.3	403.7	-17951.3	269221.8
		-10726.8	1180.0	144.8	-12.7	-17747.5	267139.0
		-10730.5	1162.9	143.8	-545.6	-17599.5	264331.2
		-10718.7	1216.3	147.0	1126.1	-18069.1	273093.7
		-10722.5	1199.2	146.0	593.2	-17921.1	270285.9
		-10720.6	1207.8	146.5	859.2	-17995.1	271706.1
		-10724.4	1190.7	145.5	326.2	-17847.1	268898.3
		-10712.5	1244.1	148.6	1998.0	-18316.7	277660.8
		-10716.3	1227.0	147.6	1465.0	-18168.7	274853.0
Asta	120	nod1	56	102			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-11690.4	-1206.6	179.6	-1076.4	37225.9	126457.0	
	-11686.3	-1223.6	198.6	-1609.0	41094.4	129276.1	
	-11698.9	-1170.5	139.1	63.3	28944.7	120470.9	
	-11694.9	-1187.5	158.0	-469.3	32813.3	123290.1	
	-11696.9	-1178.9	148.7	-205.6	30901.8	121865.0	
	-11692.9	-1195.9	167.6	-738.2	34770.4	124684.2	
	-11705.4	-1142.8	108.1	934.2	22620.7	115879.0	
	-11701.4	-1159.8	127.0	401.6	26489.2	118698.2	
	-11698.5	-1172.4	140.5	-10.0	29229.0	120777.9	
	-11694.5	-1189.4	159.4	-542.6	33097.5	123597.0	
	-11707.0	-1136.2	99.9	1129.8	20947.8	114791.8	
	-11703.0	-1153.2	118.8	597.2	24816.3	117611.0	
	-11705.0	-1144.6	109.5	860.9	22904.9	116185.9	
	-11701.0	-1161.7	128.4	328.3	26773.4	119005.1	
	-11713.6	-1108.5	68.9	2000.6	14623.7	110199.9	
	-11709.6	-1125.5	87.9	1468.0	18492.2	113019.1	
165.	-11195.4	-1206.6	179.6	-1076.4	7585.7	-72635.3	
	-11191.3	-1223.6	198.6	-1609.0	8326.6	-72623.1	
	-11203.9	-1170.5	139.1	63.3	5999.3	-72661.7	
	-11199.9	-1187.5	158.0	-469.3	6740.2	-72649.5	
	-11201.9	-1178.9	148.7	-205.6	6374.3	-72655.1	
	-11197.9	-1195.9	167.6	-738.2	7115.2	-72642.9	
	-11210.4	-1142.8	108.1	934.2	4787.9	-72681.5	
	-11206.4	-1159.8	127.0	401.6	5528.9	-72669.3	
	-11203.5	-1172.4	140.5	-10.0	6052.9	-72660.1	
	-11199.5	-1189.4	159.4	-542.6	6793.8	-72647.9	
	-11212.0	-1136.2	99.9	1129.8	4466.5	-72686.4	
	-11208.0	-1153.2	118.8	597.2	5207.5	-72674.3	
	-11210.0	-1144.6	109.5	860.9	4841.6	-72679.9	
	-11206.0	-1161.7	128.4	328.3	5582.5	-72667.7	
	-11218.6	-1108.5	68.9	2000.6	3255.2	-72706.3	
	-11214.6	-1125.5	87.9	1468.0	3996.1	-72694.1	
330.	-10700.4	-1206.6	179.6	-1076.4	-22054.6	-271727.5	
	-10696.3	-1223.6	198.6	-1609.0	-24441.2	-274522.3	
	-10708.9	-1170.5	139.1	63.3	-16946.2	-265794.2	
	-10704.9	-1187.5	158.0	-469.3	-19332.8	-268589.0	
	-10706.9	-1178.9	148.7	-205.6	-18153.2	-267175.2	
	-10702.9	-1195.9	167.6	-738.2	-20539.9	-269970.0	
	-10715.4	-1142.8	108.1	934.2	-13044.8	-261241.9	
	-10711.4	-1159.8	127.0	401.6	-15431.5	-264036.7	
	-10708.5	-1172.4	140.5	-10.0	-17123.1	-266098.0	
	-10704.5	-1189.4	159.4	-542.6	-19509.8	-268892.8	
	-10717.0	-1136.2	99.9	1129.8	-12014.7	-260164.7	
	-10713.0	-1153.2	118.8	597.2	-14401.4	-262959.5	
	-10715.0	-1144.6	109.5	860.9	-13221.8	-261545.7	
	-10711.0	-1161.7	128.4	328.3	-15608.4	-264340.5	
	-10723.6	-1108.5	68.9	2000.6	-8113.4	-255612.4	
	-10719.6	-1125.5	87.9	1468.0	-10500.0	-258407.2	
Asta	121	nod1	55	103			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-11759.8	-1214.2	97.5	-1085.8	19264.8	128842.3	
	-11759.4	-1214.4	116.5	-1617.5	23169.9	128869.5	
	-11760.7	-1213.9	56.6	56.3	10886.8	128793.7	
	-11760.4	-1214.1	75.7	-475.4	14791.9	128820.8	
	-11760.3	-1213.9	66.3	-217.9	12879.9	128794.6	
	-11760.0	-1214.1	85.4	-749.6	16785.0	128821.8	
	-11761.3	-1213.6	25.5	924.2	4501.9	128746.0	
	-11761.0	-1213.8	44.5	392.5	8407.0	128773.1	
	-11760.3	-1213.7	57.7	0.2	11125.0	128756.9	
	-11759.9	-1213.8	76.8	-531.5	15030.2	128784.1	
	-11761.2	-1213.4	16.9	1142.3	2747.1	128708.2	
	-11760.9	-1213.6	35.9	610.6	6652.2	128735.4	
	-11760.8	-1213.4	26.6	868.1	4740.1	128709.2	
	-11760.5	-1213.6	45.6	336.4	8645.2	128736.4	
	-11761.8	-1213.1	-14.2	2010.2	-3637.9	128660.6	
	-11761.4	-1213.3	4.8	1478.5	267.3	128687.7	
165.	-11264.8	-1214.2	97.5	-1085.8	3185.0	-71499.5	
	-11264.4	-1214.4	116.5	-1617.5	3949.4	-71498.9	
	-11265.7	-1213.9	56.6	56.3	1544.0	-71502.6	
	-11265.4	-1214.1	75.7	-475.4	2308.4	-71502.0	
	-11265.3	-1213.9	66.3	-217.9	1935.0	-71500.4	
	-11265.0	-1214.1	85.4	-749.6	2699.4	-71499.7	
	-11266.3	-1213.6	25.5	924.2	293.9	-71503.5	
	-11266.0	-1213.8	44.5	392.5	1058.4	-71502.8	
	-11265.3	-1213.7	57.7	0.2	1601.1	-71500.5	

330.		-11264.9	-1213.8	76.8	-531.5	2365.6	-71499.9	
		-11266.2	-1213.4	16.9	1142.3	-39.9	-71503.6	
		-11265.9	-1213.6	35.9	610.6	724.5	-71503.0	
		-11265.8	-1213.4	26.6	868.1	351.1	-71501.3	
		-11265.5	-1213.6	45.6	336.4	1115.5	-71500.7	
		-11266.8	-1213.1	-14.2	2010.2	-1289.9	-71504.4	
		-11266.4	-1213.3	4.8	1478.5	-525.5	-71503.8	
		-10769.8	-1214.2	97.5	-1085.8	-12894.8	-271843.2	
		-10769.4	-1214.4	116.5	-1617.5	-15271.0	-271869.2	
		-10770.7	-1213.9	56.6	56.3	-7798.9	-271797.0	
		-10770.4	-1214.1	75.7	-475.4	-10175.1	-271823.0	
		-10770.3	-1213.9	66.3	-217.9	-9009.9	-271797.2	
		-10770.0	-1214.1	85.4	-749.6	-11386.2	-271823.2	
		-10771.3	-1213.6	25.5	924.2	-3914.0	-271751.1	
		-10771.0	-1213.8	44.5	392.5	-6290.2	-271777.0	
		-10770.3	-1213.7	57.7	0.2	-7922.8	-271759.7	
		-10769.9	-1213.8	76.8	-531.5	-10299.0	-271785.6	
		-10771.2	-1213.4	16.9	1142.3	-2826.9	-271713.5	
		-10770.9	-1213.6	35.9	610.6	-5203.1	-271739.5	
		-10770.8	-1213.4	26.6	868.1	-4037.9	-271713.7	
		-10770.5	-1213.6	45.6	336.4	-6414.1	-271739.7	
		-10771.8	-1213.1	-14.2	2010.2	1058.0	-271667.5	
		-10771.4	-1213.3	4.8	1478.5	-1318.2	-271693.5	
	Asta	122	nod1	62	104			
	PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-11770.6	1253.1	81.3	-1080.7	16206.6	-135895.4		
	-11770.6	1252.7	80.1	-1612.7	15963.2	-135834.1		
	-11770.4	1253.8	84.1	61.4	16731.8	-136037.6		
	-11770.4	1253.5	82.8	-470.6	16488.4	-135976.3		
	-11770.5	1253.6	83.4	-212.2	16601.8	-135993.6		
	-11770.5	1253.3	82.1	-744.2	16358.4	-135932.3		
	-11770.3	1254.4	86.1	929.9	17127.1	-136135.8		
	-11770.3	1254.0	84.8	397.9	16883.6	-136074.5		
	-11770.8	1253.7	83.9	-5.1	16691.5	-136012.7		
	-11770.8	1253.4	82.7	-537.1	16448.1	-135951.4		
	-11770.5	1254.5	86.6	1137.0	17216.8	-136154.8		
	-11770.5	1254.2	85.4	605.0	16973.4	-136093.6		
	-11770.7	1254.3	85.9	863.5	17086.7	-136110.9		
	-11770.7	1253.9	84.7	331.5	16843.3	-136049.6		
	-11770.4	1255.0	88.7	2005.6	17612.0	-136253.0		
	-11770.5	1254.7	87.4	1473.6	17368.6	-136191.8		
165.	-11275.6	1253.1	81.3	-1080.7	2784.6	70860.6		
	-11275.6	1252.7	80.1	-1612.7	2748.7	70866.6		
	-11275.4	1253.8	84.1	61.4	2861.8	70845.9		
	-11275.4	1253.5	82.8	-470.6	2826.0	70851.9		
	-11275.5	1253.6	83.4	-212.2	2843.3	70850.7		
	-11275.5	1253.3	82.1	-744.2	2807.5	70856.7		
	-11275.3	1254.4	86.1	929.9	2920.6	70835.9		
	-11275.3	1254.0	84.8	397.9	2884.7	70841.9		
	-11275.8	1253.7	83.9	-5.1	2846.7	70851.0		
	-11275.8	1253.4	82.7	-537.1	2810.8	70857.0		
	-11275.5	1254.5	86.6	1137.0	2924.0	70836.3		
	-11275.5	1254.2	85.4	605.0	2888.1	70842.3		
	-11275.7	1254.3	85.9	863.5	2905.4	70841.1		
	-11275.7	1253.9	84.7	331.5	2869.6	70847.1		
	-11275.4	1255.0	88.7	2005.6	2982.7	70826.3		
	-11275.5	1254.7	87.4	1473.6	2946.8	70832.3		
330.	-10780.6	1253.1	81.3	-1080.7	-10636.6	277616.3		
	-10780.6	1252.7	80.1	-1612.7	-10464.9	277567.1		
	-10780.4	1253.8	84.1	61.4	-11007.3	277729.0		
	-10780.4	1253.5	82.8	-470.6	-10835.7	277679.7		
	-10780.5	1253.6	83.4	-212.2	-10914.3	277694.6		
	-10780.5	1253.3	82.1	-744.2	-10742.6	277645.3		
	-10780.3	1254.4	86.1	929.9	-11285.0	277807.3		
	-10780.3	1254.0	84.8	397.9	-11113.4	277758.0		
	-10780.8	1253.7	83.9	-5.1	-10999.0	277715.0		
	-10780.8	1253.4	82.7	-537.1	-10827.3	277665.7		
	-10780.5	1254.5	86.6	1137.0	-11369.7	277827.7		
	-10780.5	1254.2	85.4	605.0	-11198.1	277778.4		
	-10780.7	1254.3	85.9	863.5	-11276.7	277793.3		
	-10780.7	1253.9	84.7	331.5	-11105.0	277744.0		
	-10780.4	1255.0	88.7	2005.6	-11647.4	277906.0		
	-10780.5	1254.7	87.4	1473.6	-11475.7	277856.7		
Asta	123	nod1	54	105				
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ		
0.	-11410.2	-1120.1	-107.2	-1077.1	-11967.2	115630.3		
	-11413.4	-1103.6	-88.1	-1608.3	-8089.8	112903.4		
	-11403.5	-1155.9	-148.0	68.9	-20285.9	121572.0		
	-11406.6	-1139.5	-129.0	-462.3	-16408.4	118845.1		
	-11405.1	-1146.8	-138.3	-210.0	-18318.0	120056.1		
	-11408.3	-1130.3	-119.3	-741.1	-14440.5	117329.2		
	-11398.3	-1182.6	-179.1	936.0	-26636.6	125997.8		
	-11401.5	-1166.1	-160.1	404.9	-22759.2	123270.8		
	-11403.7	-1152.2	-147.3	-9.5	-20152.2	120960.1		
	-11406.9	-1135.8	-128.3	-540.7	-16274.7	118233.2		
	-11397.0	-1188.0	-188.2	1136.4	-28470.8	126901.8		
	-11400.1	-1171.6	-169.1	605.3	-24593.3	124174.8		
	-11398.6	-1178.9	-178.5	857.6	-26502.9	125385.9		
	-11401.8	-1162.5	-159.5	326.5	-22625.5	122659.0		

165.	-11391.9	-1214.7	-219.3	2003.6	-34821.5	131327.5
	-11395.0	-1198.3	-200.3	1472.5	-30944.1	128600.6
	-10915.2	-1120.1	-107.2	-1077.1	5715.1	-69183.0
	-10918.4	-1103.6	-88.1	-1608.3	6453.2	-69197.2
	-10908.5	-1155.9	-148.0	68.9	4131.7	-69152.6
	-10911.6	-1139.5	-129.0	-462.3	4869.9	-69166.8
	-10910.1	-1146.8	-138.3	-210.0	4505.7	-69159.6
	-10913.3	-1130.3	-119.3	-741.1	5243.8	-69173.9
	-10903.3	-1182.6	-179.1	936.0	2922.3	-69129.3
	-10906.5	-1166.1	-160.1	404.9	3660.5	-69143.5
	-10908.7	-1152.2	-147.3	-9.5	4157.8	-69155.5
	-10911.9	-1135.8	-128.3	-540.7	4896.0	-69169.7
	-10902.0	-1188.0	-188.2	1136.4	2574.4	-69125.2
	-10905.1	-1171.6	-169.1	605.3	3312.6	-69139.4
	-10903.6	-1178.9	-178.5	857.6	2948.4	-69132.2
	-10906.8	-1162.5	-159.5	326.5	3686.6	-69146.4
	-10896.9	-1214.7	-219.3	2003.6	1365.1	-69101.8
	-10900.0	-1198.3	-200.3	1472.5	2103.2	-69116.1
330.	-10420.2	-1120.1	-107.2	-1077.1	23397.3	-253996.2
	-10423.4	-1103.6	-88.1	-1608.3	20996.3	-251297.7
	-10413.5	-1155.9	-148.0	68.9	28549.2	-259877.2
	-10416.6	-1139.5	-129.0	-462.3	26148.1	-257178.7
	-10415.1	-1146.8	-138.3	-210.0	27329.3	-258375.4
	-10418.3	-1130.3	-119.3	-741.1	24928.2	-255676.9
	-10408.3	-1182.6	-179.1	936.0	32481.2	-264256.4
	-10411.5	-1166.1	-160.1	404.9	30080.1	-261557.9
	-10413.7	-1152.2	-147.3	-9.5	28467.8	-259271.1
	-10416.9	-1135.8	-128.3	-540.7	26066.7	-256572.6
	-10407.0	-1188.0	-188.2	1136.4	33619.7	-265152.1
	-10410.1	-1171.6	-169.1	605.3	31218.6	-262453.6
	-10408.6	-1178.9	-178.5	857.6	32399.8	-263650.2
	-10411.8	-1162.5	-159.5	326.5	29998.7	-260951.7
	-10401.9	-1214.7	-219.3	2003.6	37551.7	-269531.2
	-10405.0	-1198.3	-200.3	1472.5	35150.6	-266832.7
Asta PROGR. 0.	124	124	63	106		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-11651.6	1346.6	22.1	-1072.6	7992.3	-153416.6
	-11648.7	1362.5	21.1	-1603.5	7782.5	-156043.4
	-11657.9	1311.8	24.6	74.2	8473.5	-147705.8
	-11655.0	1327.8	23.5	-456.7	8263.7	-150332.5
	-11656.2	1320.6	23.8	-205.4	8324.3	-149146.9
	-11653.3	1336.6	22.8	-736.3	8114.5	-151773.7
	-11662.5	1285.9	26.3	941.3	8805.4	-143436.1
	-11659.6	1301.9	25.2	410.4	8595.6	-146062.8
	-11656.9	1315.2	23.4	-14.7	8244.9	-148261.7
	-11654.1	1331.2	22.4	-545.6	8035.1	-150888.4
	-11663.2	1280.5	25.9	1132.0	8726.1	-142550.8
	-11660.4	1296.5	24.8	601.1	8516.3	-145177.6
	-11661.5	1289.3	25.1	852.4	8576.8	-143992.0
	-11658.7	1305.2	24.0	321.5	8367.0	-146618.7
	-11667.8	1254.6	27.5	1999.2	9058.0	-138281.1
	-11665.0	1270.5	26.5	1468.3	8848.2	-140907.9
165.	-11156.6	1346.6	22.1	-1072.6	4384.2	68766.0
	-11153.7	1362.5	21.1	-1603.5	4349.9	68774.1
	-11162.9	1311.8	24.6	74.2	4464.0	68748.9
	-11160.0	1327.8	23.5	-456.7	4429.8	68756.9
	-11161.2	1320.6	23.8	-205.4	4438.4	68752.5
	-11158.3	1336.6	22.8	-736.3	4404.2	68760.6
	-11167.5	1285.9	26.3	941.3	4518.3	68735.4
	-11164.6	1301.9	25.2	410.4	4484.1	68743.4
	-11161.9	1315.2	23.4	-14.7	4334.6	68751.7
	-11159.1	1331.2	22.4	-545.6	4300.4	68759.7
	-11168.2	1280.5	25.9	1132.0	4414.5	68734.5
	-11165.4	1296.5	24.8	601.1	4380.3	68742.6
	-11166.5	1289.3	25.1	852.4	4388.9	68738.2
	-11163.7	1305.2	24.0	321.5	4354.7	68746.2
	-11172.8	1254.6	27.5	1999.2	4468.8	68721.0
	-11170.0	1270.5	26.5	1468.3	4434.5	68729.1
	-10661.6	1346.6	22.1	-1072.6	690.5	290948.5
330.	-10658.7	1362.5	21.1	-1603.5	831.8	293591.4
	-10667.9	1311.8	24.6	74.2	369.0	285203.4
	-10665.0	1327.8	23.5	-456.7	510.3	287846.3
	-10666.2	1320.6	23.8	-205.4	467.1	286651.8
	-10663.3	1336.6	22.8	-736.3	608.4	289294.7
	-10672.5	1285.9	26.3	941.3	145.6	280906.7
	-10669.6	1301.9	25.2	410.4	286.9	283549.6
	-10666.9	1315.2	23.4	-14.7	509.9	285765.1
	-10664.1	1331.2	22.4	-545.6	651.3	288408.0
	-10673.2	1280.5	25.9	1132.0	188.4	280020.0
	-10670.4	1296.5	24.8	601.1	329.8	282662.9
	-10671.5	1289.3	25.1	852.4	286.6	281468.4
	-10668.7	1305.2	24.0	321.5	427.9	284111.3
	-10677.8	1254.6	27.5	1999.2	-34.9	275723.3
	-10675.0	1270.5	26.5	1468.3	106.4	278366.2
Asta PROGR. 0.	125	125	64	107		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-15279.7	1292.1	261.8	-1073.5	23124.0	-156808.3
	-15270.7	1325.2	261.3	-1606.1	23063.9	-162265.8
	-15299.0	1220.3	263.3	75.0	23296.1	-144969.0

		-15290.0	1253.4	262.7	-457.7	23236.0	-150426.5
		-15294.2	1238.2	262.7	-203.3	23208.0	-147932.4
		-15285.2	1271.3	262.1	-735.9	23148.0	-153389.9
		-15313.5	1166.5	264.2	945.2	23380.2	-136093.1
		-15304.5	1199.6	263.6	412.5	23320.1	-141550.6
		-15297.4	1227.0	260.0	-15.7	22665.1	-146079.4
		-15288.5	1260.1	259.5	-548.3	22605.0	-151536.9
		-15316.7	1155.2	261.5	1132.7	22837.2	-134240.1
		-15307.8	1188.3	260.9	600.1	22777.2	-139697.6
		-15311.9	1173.2	260.9	854.5	22749.2	-137203.5
		-15303.0	1206.3	260.3	321.9	22689.1	-142661.0
		-15331.2	1101.4	262.4	2002.9	22921.3	-125364.2
		-15322.3	1134.5	261.8	1470.3	22861.3	-130821.7
165.		-14784.7	1292.1	261.8	-1073.5	-20065.6	56382.2
		-14775.7	1325.2	261.3	-1606.1	-20029.9	56384.4
		-14804.0	1220.3	263.3	75.0	-20136.8	56377.8
		-14795.0	1253.4	262.7	-457.7	-20101.1	56380.0
		-14799.2	1238.2	262.7	-203.3	-20126.4	56378.0
		-14790.2	1271.3	262.1	-735.9	-20090.6	56380.2
		-14818.5	1166.5	264.2	945.2	-20197.6	56373.6
		-14809.5	1199.6	263.6	412.5	-20161.8	56375.9
		-14802.4	1227.0	260.0	-15.7	-20249.9	56377.7
		-14793.5	1260.1	259.5	-548.3	-20214.1	56380.0
		-14821.7	1155.2	261.5	1132.7	-20321.1	56373.4
		-14812.8	1188.3	260.9	600.1	-20285.3	56375.6
		-14816.9	1173.2	260.9	854.5	-20310.6	56373.6
		-14808.0	1206.3	260.3	321.9	-20274.9	56375.8
		-14836.2	1101.4	262.4	2002.9	-20381.8	56369.2
330.		-14827.3	1134.5	261.8	1470.3	-20346.1	56371.5
		-14289.7	1292.1	261.8	-1073.5	-63306.2	269572.5
		-14280.7	1325.2	261.3	-1606.1	-63174.6	275034.5
		-14309.0	1220.3	263.3	75.0	-63612.2	257724.7
		-14300.0	1253.4	262.7	-457.7	-63480.7	263186.7
		-14304.2	1238.2	262.7	-203.3	-63511.8	260688.3
		-14295.2	1271.3	262.1	-735.9	-63380.2	266150.3
		-14323.5	1166.5	264.2	945.2	-63817.8	248840.5
		-14314.5	1199.6	263.6	412.5	-63686.3	254302.5
		-14307.4	1227.0	260.0	-15.7	-63122.3	258834.8
		-14298.5	1260.1	259.5	-548.3	-62990.7	264296.8
		-14326.7	1155.2	261.5	1132.7	-63428.4	246987.0
		-14317.8	1188.3	260.9	600.1	-63296.8	252449.0
		-14321.9	1173.2	260.9	854.5	-63327.9	249950.6
		-14313.0	1206.3	260.3	321.9	-63196.3	255412.6
		-14341.2	1101.4	262.4	2002.9	-63633.9	238102.8
		-14332.3	1134.5	261.8	1470.3	-63502.4	243564.8
Asta	126	nod1	53	108			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-13118.4	-314.8	1178.7	-1071.8	107257.8	22424.5	
	-13121.0	-280.3	1194.5	-1602.6	110729.2	16665.2	
	-13112.8	-389.8	1144.6	72.5	99814.8	34923.3	
	-13115.4	-355.3	1160.5	-458.2	103286.2	29164.0	
	-13114.1	-371.0	1152.7	-204.6	101567.4	31787.4	
	-13116.7	-336.4	1168.5	-735.4	105038.7	26028.1	
	-13108.4	-445.9	1118.6	939.7	94124.4	44286.2	
	-13111.1	-411.4	1134.5	408.9	97595.7	38526.9	
	-13112.9	-382.6	1144.6	-12.7	99815.3	33733.8	
	-13115.6	-348.1	1160.4	-543.5	103286.6	27974.5	
	-13107.3	-457.5	1110.6	1131.6	92372.3	46232.6	
	-13109.9	-423.0	1126.4	600.8	95843.6	40473.3	
	-13108.6	-438.7	1118.6	854.5	94124.8	43096.7	
	-13111.2	-404.2	1134.4	323.7	97596.2	37337.4	
	-13103.0	-513.7	1084.6	1998.8	86681.8	55595.5	
	-13105.6	-479.1	1100.4	1468.0	90153.1	49836.2	
165.	-12623.4	-314.8	1178.7	-1071.8	-87220.6	-29524.1	
	-12626.0	-280.3	1194.5	-1602.6	-86366.8	-29586.5	
	-12617.8	-389.8	1144.6	72.5	-89052.3	-29390.3	
	-12620.4	-355.3	1160.5	-458.2	-88198.4	-29452.7	
	-12619.1	-371.0	1152.7	-204.6	-88620.1	-29421.6	
	-12621.7	-336.4	1168.5	-735.4	-87766.3	-29484.1	
	-12613.4	-445.9	1118.6	939.7	-90451.8	-29287.8	
	-12616.1	-411.4	1134.5	408.9	-89597.9	-29350.3	
	-12617.9	-382.6	1144.6	-12.7	-89039.0	-29396.5	
	-12620.6	-348.1	1160.4	-543.5	-88185.2	-29459.0	
	-12612.3	-457.5	1110.6	1131.6	-90870.7	-29262.7	
	-12614.9	-423.0	1126.4	600.8	-90016.9	-29325.2	
	-12613.6	-438.7	1118.6	854.5	-90438.6	-29294.1	
	-12616.2	-404.2	1134.4	323.7	-89584.7	-29356.6	
	-12608.0	-513.7	1084.6	1998.8	-92270.2	-29160.3	
	-12610.6	-479.1	1100.4	1468.0	-91416.4	-29222.7	
330.	-12128.4	-314.8	1178.7	-1071.8	-281699.1	-81472.6	
	-12131.0	-280.3	1194.5	-1602.6	-283462.7	-75838.2	
	-12122.8	-389.8	1144.6	72.5	-277919.4	-93703.8	
	-12125.4	-355.3	1160.5	-458.2	-279683.1	-88069.4	
	-12124.1	-371.0	1152.7	-204.6	-278807.6	-90630.6	
	-12126.7	-336.4	1168.5	-735.4	-280571.3	-84996.2	
	-12118.4	-445.9	1118.6	939.7	-275028.0	-102861.8	
	-12121.1	-411.4	1134.5	408.9	-276791.6	-97227.4	
	-12122.9	-382.6	1144.6	-12.7	-277893.3	-92526.9	
	-12125.6	-348.1	1160.4	-543.5	-279657.0	-86892.5	
	-12117.3	-457.5	1110.6	1131.6	-274113.7	-104758.1	

	-12119.9	-423.0	1126.4	600.8	-275877.3	-99123.7
	-12118.6	-438.7	1118.6	854.5	-275001.9	-101684.9
	-12121.2	-404.2	1134.4	323.7	-276765.5	-96050.5
	-12113.0	-513.7	1084.6	1998.8	-271222.2	-113916.1
	-12115.6	-479.1	1100.4	1468.0	-272985.9	-108281.7
Asta	127	nod1	77	109		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-11365.1	708.4	319.0	-1076.3	11288.2	-110621.4
	-11366.1	746.1	359.9	-1610.6	20640.6	-116882.0
	-11363.1	626.7	231.1	74.2	-8838.6	-97058.6
	-11364.0	664.4	272.0	-460.1	513.8	-103319.2
	-11363.5	647.0	252.1	-202.0	-4025.2	-100427.3
	-11364.5	684.7	293.0	-736.4	5327.2	-106687.9
	-11361.5	565.3	164.2	948.5	-24152.0	-86864.5
	-11362.5	603.0	205.0	414.2	-14799.6	-93125.1
	-11362.9	633.9	235.8	-18.7	-7768.0	-98249.6
	-11363.8	671.6	276.6	-553.0	1584.5	-104510.2
	-11360.9	552.2	147.8	1131.9	-27894.8	-84686.7
	-11361.8	589.9	188.7	597.5	-18542.3	-90947.3
	-11361.3	572.5	168.8	855.6	-23081.4	-88055.5
	-11362.2	610.2	209.7	321.2	-13728.9	-94316.1
	-11359.3	490.8	80.9	2006.1	-43208.2	-74492.6
	-11360.2	528.5	121.7	1471.8	-33855.7	-80753.2
165.	-10870.1	708.4	319.0	-1076.3	-41354.6	6262.7
	-10871.1	746.1	359.9	-1610.6	-38745.5	6223.7
	-10868.1	626.7	231.1	74.2	-46969.8	6344.7
	-10869.0	664.4	272.0	-460.1	-44360.7	6305.7
	-10868.5	647.0	252.1	-202.0	-45626.1	6327.8
	-10869.5	684.7	293.0	-736.4	-43017.0	6288.8
	-10866.5	565.3	164.2	948.5	-51241.3	6409.9
	-10867.5	603.0	205.0	414.2	-48632.2	6370.8
	-10867.9	633.9	235.8	-18.7	-46666.9	6349.0
	-10868.8	671.6	276.6	-553.0	-44057.8	6310.0
	-10865.9	552.2	147.8	1131.9	-52282.1	6431.0
	-10866.8	589.9	188.7	597.5	-49673.0	6392.0
	-10866.3	572.5	168.8	855.6	-50938.4	6414.1
	-10867.2	610.2	209.7	321.2	-48329.3	6375.1
	-10864.3	490.8	80.9	2006.1	-56553.6	6496.1
	-10865.2	528.5	121.7	1471.8	-53944.5	6457.1
330.	-10375.1	708.4	319.0	-1076.3	-93997.4	123147.2
	-10376.1	746.1	359.9	-1610.6	-98131.6	129329.7
	-10373.1	626.7	231.1	74.2	-85100.9	109748.2
	-10374.0	664.4	272.0	-460.1	-89235.1	115930.7
	-10373.5	647.0	252.1	-202.0	-87227.0	113083.3
	-10374.5	684.7	293.0	-736.4	-91361.2	119265.9
	-10371.5	565.3	164.2	948.5	-78330.5	99684.3
	-10372.5	603.0	205.0	414.2	-82464.7	105866.9
	-10372.9	633.9	235.8	-18.7	-85565.8	110947.5
	-10373.8	671.6	276.6	-553.0	-89700.1	117130.0
	-10370.9	552.2	147.8	1131.9	-76669.3	97548.5
	-10371.8	589.9	188.7	597.5	-80803.6	103731.0
	-10371.3	572.5	168.8	855.6	-78795.4	100883.6
	-10372.2	610.2	209.7	321.2	-82929.7	107066.2
	-10369.3	490.8	80.9	2006.1	-69898.9	87484.6
	-10370.2	528.5	121.7	1471.8	-74033.2	93667.2
Asta	128	nod1	78	110		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-8460.1	927.5	-190.3	-990.0	-31028.8	-119344.2
	-8463.3	952.0	-136.1	-1483.0	-20090.9	-124932.6
	-8453.1	874.4	-306.7	73.3	-54556.4	-107243.5
	-8456.3	898.9	-252.6	-419.7	-43618.5	-112831.9
	-8454.9	887.6	-279.0	-185.5	-48945.9	-110247.3
	-8458.1	912.1	-224.8	-678.5	-38008.0	-115835.7
	-8448.0	834.5	-395.5	877.8	-72473.5	-98146.6
	-8451.2	859.0	-341.3	384.8	-61535.6	-103735.0
	-8454.2	879.3	-300.8	-18.5	-53359.2	-108356.5
	-8457.4	903.9	-246.6	-511.4	-42421.3	-113944.9
	-8447.2	826.2	-417.3	1044.8	-76886.8	-96255.8
	-8450.4	850.8	-363.1	551.9	-65948.9	-101844.2
	-8449.0	839.4	-389.5	786.1	-71276.3	-99259.6
	-8452.2	864.0	-335.3	293.1	-60338.4	-104848.0
	-8442.1	786.3	-506.0	1849.4	-94803.9	-87158.9
	-8445.3	810.8	-451.8	1356.4	-83866.0	-92747.3
165.	-7965.1	927.5	-190.3	-990.0	363.7	33694.6
	-7968.3	952.0	-136.1	-1483.0	2366.3	32152.9
	-7958.1	874.4	-306.7	73.3	-3943.2	37030.2
	-7961.3	898.9	-252.6	-419.7	-1940.6	35488.5
	-7959.9	887.6	-279.0	-185.5	-2917.4	36205.7
	-7963.1	912.1	-224.8	-678.5	-914.8	34664.1
	-7953.0	834.5	-395.5	877.8	-7224.3	39541.3
	-7956.2	859.0	-341.3	384.8	-5221.7	37999.7
	-7959.2	879.3	-300.8	-18.5	-3729.7	36735.7
	-7962.4	903.9	-246.6	-511.4	-1727.1	35194.1
	-7952.2	826.2	-417.3	1044.8	-8036.5	40071.3
	-7955.4	850.8	-363.1	551.9	-6034.0	38529.7
	-7954.0	839.4	-389.5	786.1	-7010.7	39246.9
	-7957.2	864.0	-335.3	293.1	-5008.1	37705.2
	-7947.1	786.3	-506.0	1849.4	-11317.6	42582.5
	-7950.3	810.8	-451.8	1356.4	-9315.0	41040.9

330.	-7470.1	927.5	-190.3	-990.0	31756.1	186733.4
	-7473.3	952.0	-136.1	-1483.0	24823.4	189238.5
	-7463.1	874.4	-306.7	73.3	46669.9	181303.9
	-7466.3	898.9	-252.6	-419.7	39737.2	183809.0
	-7464.9	887.6	-279.0	-185.5	43111.2	182658.8
	-7468.1	912.1	-224.8	-678.5	36178.4	185163.9
	-7458.0	834.5	-395.5	877.8	58025.0	177229.3
	-7461.2	859.0	-341.3	384.8	51092.3	179734.4
	-7464.2	879.3	-300.8	-18.5	45899.9	181827.9
	-7467.4	903.9	-246.6	-511.4	38967.1	184333.0
	-7457.2	826.2	-417.3	1044.8	60813.7	176398.5
	-7460.4	850.8	-363.1	551.9	53880.9	178903.5
	-7459.0	839.4	-389.5	786.1	57254.9	177753.4
	-7462.2	864.0	-335.3	293.1	50322.2	180258.4
	-7452.1	786.3	-506.0	1849.4	72168.7	172323.9
	-7455.3	810.8	-451.8	1356.4	65236.0	174828.9
Asta	129	nod	17	111		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-5993.4	201.1	-58.0	-1093.6	-15766.7	-41726.8
	-6059.5	261.0	-19.0	-1637.2	-6849.0	-52566.4
	-5850.8	71.3	-141.4	77.2	-34903.2	-18259.5
	-5916.9	131.2	-102.4	-466.4	-25985.6	-29099.0
	-5885.4	103.6	-122.0	-204.3	-30409.8	-24083.1
	-5951.5	163.5	-83.1	-747.9	-21492.2	-34922.7
	-5742.9	-26.1	-205.4	966.5	-49546.4	-615.8
	-5809.0	33.8	-166.5	422.9	-40628.7	-11455.4
	-5860.8	84.0	-139.4	-19.7	-34223.7	-20498.9
	-5926.9	143.9	-100.5	-563.4	-25306.1	-31338.5
	-5718.2	-45.7	-222.8	1151.1	-53360.3	2968.4
	-5784.3	14.2	-183.9	607.4	-44442.7	-7871.1
	-5752.8	-13.5	-203.5	869.5	-48866.9	-2855.3
	-5818.9	46.4	-164.5	325.9	-39949.3	-13694.8
	-5610.2	-143.2	-286.9	2040.3	-68003.4	20612.1
	-5676.3	-83.3	-247.9	1496.7	-59085.8	9772.5
165.	-5498.4	201.1	-58.0	-1093.6	-6200.8	-8551.6
	-5564.5	261.0	-19.0	-1637.2	-3706.8	-9507.7
	-5355.8	71.3	-141.4	77.2	-11576.7	-6489.0
	-5421.9	131.2	-102.4	-466.4	-9082.7	-7445.2
	-5390.4	103.6	-122.0	-204.3	-10277.9	-6989.8
	-5456.5	163.5	-83.1	-747.9	-7783.8	-7945.9
	-5247.9	-26.1	-205.4	966.5	-15653.8	-4927.2
	-5314.0	33.8	-166.5	422.9	-13159.7	-5883.4
	-5365.8	84.0	-139.4	-19.7	-11219.1	-6640.3
	-5431.9	143.9	-100.5	-563.4	-8725.0	-7596.5
	-5223.2	-45.7	-222.8	1151.1	-16595.0	-4577.8
	-5289.3	14.2	-183.9	607.4	-14100.9	-5533.9
	-5257.8	-13.5	-203.5	869.5	-15296.1	-5078.5
	-5323.9	46.4	-164.5	325.9	-12802.0	-6034.7
	-5115.2	-143.2	-286.9	2040.3	-20672.0	-3016.0
	-5181.3	-83.3	-247.9	1496.7	-18178.0	-3972.1
330.	-5003.4	201.1	-58.0	-1093.6	3362.8	24623.9
	-5069.5	261.0	-19.0	-1637.2	-566.7	33551.2
	-4860.8	71.3	-141.4	77.2	11748.1	5281.6
	-4926.9	131.2	-102.4	-466.4	7818.6	14208.9
	-4895.4	103.6	-122.0	-204.3	9851.8	10103.9
	-4961.5	163.5	-83.1	-747.9	5922.3	19031.2
	-4752.9	-26.1	-205.4	966.5	18237.2	-9238.4
	-4819.0	33.8	-166.5	422.9	14307.7	-311.2
	-4870.8	84.0	-139.4	-19.7	11787.2	7218.0
	-4936.9	143.9	-100.5	-563.4	7857.7	16145.3
	-4728.2	-45.7	-222.8	1151.1	20172.6	-12124.3
	-4794.3	14.2	-183.9	607.4	16243.1	-3197.0
	-4762.8	-13.5	-203.5	869.5	18276.3	-7302.0
	-4828.9	46.4	-164.5	325.9	14346.8	1625.3
	-4620.2	-143.2	-286.9	2040.3	26661.6	-26644.3
	-4686.3	-83.3	-247.9	1496.7	22732.1	-17717.1
Asta	130	nod	38	112		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-16192.1	298.1	849.1	-1082.1	84654.0	-51008.4
	-16154.3	328.0	978.0	-1620.2	106524.1	-56059.7
	-16273.9	233.0	570.9	76.4	37426.8	-40033.9
	-16236.1	263.0	699.7	-461.8	59296.9	-45085.3
	-16253.8	249.4	638.9	-200.6	48970.3	-42812.7
	-16215.9	279.4	767.8	-738.7	70840.5	-47864.0
	-16335.6	184.4	360.7	957.9	1743.1	-31838.2
	-16297.7	214.3	489.5	419.7	23613.3	-36889.6
	-16266.7	240.7	592.2	-20.5	41022.7	-41391.6
	-16228.9	270.7	721.0	-558.7	62892.8	-46442.9
	-16348.5	175.7	313.9	1138.0	-6204.5	-30417.1
	-16310.6	205.6	442.8	599.8	15665.6	-35468.4
	-16328.4	192.1	382.0	861.0	5339.1	-33195.9
	-16290.5	222.1	510.8	322.8	27209.2	-38247.2
	-16410.1	127.0	103.7	2019.4	-41888.1	-22221.4
	-16372.3	157.0	232.6	1481.3	-20018.0	-27272.7
165.	-15697.1	298.1	849.1	-1082.1	-55453.0	-1831.2
	-15659.3	328.0	978.0	-1620.2	-54842.3	-1938.6
	-15778.9	233.0	570.9	76.4	-56768.6	-1591.2
	-15741.1	263.0	699.7	-461.8	-56158.0	-1698.6
	-15758.8	249.4	638.9	-200.6	-56451.8	-1661.4

		-15720.9	279.4	767.8	-738.7	-55841.1	-1768.8
		-15840.6	184.4	360.7	957.9	-57767.4	-1421.4
		-15802.7	214.3	489.5	419.7	-57156.8	-1528.8
		-15771.7	240.7	592.2	-20.5	-56690.1	-1667.1
		-15733.9	270.7	721.0	-558.7	-56079.5	-1774.5
		-15853.5	175.7	313.9	1138.0	-58005.8	-1427.1
		-15815.6	205.6	442.8	599.8	-57395.1	-1534.6
		-15833.4	192.1	382.0	861.0	-57688.9	-1497.3
		-15795.5	222.1	510.8	322.8	-57078.3	-1604.7
		-15915.1	127.0	103.7	2019.4	-59004.6	-1257.3
		-15877.3	157.0	232.6	1481.3	-58393.9	-1364.8
330.		-15202.1	298.1	849.1	-1082.1	-195560.0	47349.9
		-15164.3	328.0	978.0	-1620.2	-216208.9	52186.3
		-15283.9	233.0	570.9	76.4	-150964.1	36854.9
		-15246.1	263.0	699.7	-461.8	-171612.9	41691.4
		-15263.8	249.4	638.9	-200.6	-161874.0	39493.8
		-15225.9	279.4	767.8	-738.7	-182522.8	44330.2
		-15345.6	184.4	360.7	957.9	-117278.0	28998.8
		-15307.7	214.3	489.5	419.7	-137926.9	33835.3
		-15276.7	240.7	592.2	-20.5	-154402.9	38054.0
		-15238.9	270.7	721.0	-558.7	-175051.8	42890.5
		-15358.5	175.7	313.9	1138.0	-109807.0	27559.1
		-15320.6	205.6	442.8	599.8	-130455.8	32395.5
		-15338.4	192.1	382.0	861.0	-120716.9	30197.9
		-15300.5	222.1	510.8	322.8	-141365.7	35034.4
		-15420.1	127.0	103.7	2019.4	-76120.9	19703.0
		-15382.3	157.0	232.6	1481.3	-96769.8	24539.4
Asta	131	nod1	51	174			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-12565.5	-182.2	-1352.2	-1051.6	-116690.4	12185.2	
	-12577.6	-124.9	-1340.0	-1573.1	-113785.3	1351.3	
	-12539.3	-306.1	-1378.4	71.3	-122916.0	35625.9	
	-12551.4	-248.8	-1366.2	-450.2	-120010.9	24791.9	
	-12545.9	-275.5	-1372.3	-197.9	-121460.3	29830.8	
	-12558.0	-218.2	-1360.0	-719.4	-118555.2	18996.9	
	-12519.6	-399.4	-1398.5	925.0	-127685.9	53271.5	
	-12531.7	-342.1	-1386.3	403.6	-124780.9	42437.5	
	-12542.2	-294.6	-1378.7	-16.6	-123017.1	33458.0	
	-12554.3	-237.4	-1366.5	-538.0	-120112.1	22624.0	
	-12516.0	-418.6	-1405.0	1106.3	-129242.8	56898.6	
	-12528.1	-361.3	-1392.7	584.9	-126337.7	46064.6	
	-12522.5	-387.9	-1398.8	837.1	-127787.1	51103.6	
	-12534.6	-330.7	-1386.6	315.7	-124882.0	40269.6	
	-12496.3	-511.9	-1425.1	1960.0	-134012.7	74544.2	
	-12508.4	-454.6	-1412.8	1438.6	-131107.6	63710.3	
165.	-12070.5	-182.2	-1352.2	-1051.6	106421.8	-17875.3	
	-12082.6	-124.9	-1340.0	-1573.1	107307.3	-19257.9	
	-12044.3	-306.1	-1378.4	71.3	104525.7	-14884.0	
	-12056.4	-248.8	-1366.2	-450.2	105411.2	-16266.6	
	-12050.9	-275.5	-1372.3	-197.9	104966.8	-15623.1	
	-12063.0	-218.2	-1360.0	-719.4	105852.3	-17005.8	
	-12024.6	-399.4	-1398.5	925.0	103070.7	-12631.8	
	-12036.7	-342.1	-1386.3	403.6	103956.2	-14014.5	
	-12047.2	-294.6	-1378.7	-16.6	104472.7	-15158.9	
	-12059.3	-237.4	-1366.5	-538.0	105358.3	-16541.6	
	-12021.0	-418.6	-1405.0	1106.3	102576.6	-12167.6	
	-12033.1	-361.3	-1392.7	584.9	103462.1	-13550.3	
	-12027.5	-387.9	-1398.8	837.1	103017.7	-12906.8	
	-12039.6	-330.7	-1386.6	315.7	103903.3	-14289.4	
	-12001.3	-511.9	-1425.1	1960.0	101121.6	-9915.5	
	-12013.4	-454.6	-1412.8	1438.6	102007.1	-11298.1	
330.	-11575.5	-182.2	-1352.2	-1051.6	329533.8	-47935.8	
	-11587.6	-124.9	-1340.0	-1573.1	328399.8	-39867.2	
	-11549.3	-306.1	-1378.4	71.3	331967.2	-65393.8	
	-11561.4	-248.8	-1366.2	-450.2	330833.2	-57325.2	
	-11555.9	-275.5	-1372.3	-197.9	331393.8	-61077.1	
	-11568.0	-218.2	-1360.0	-719.4	330259.8	-53008.5	
	-11529.6	-399.4	-1398.5	925.0	333827.1	-78535.1	
	-11541.7	-342.1	-1386.3	403.6	332693.1	-70466.5	
	-11552.2	-294.6	-1378.7	-16.6	331962.7	-63775.9	
	-11564.3	-237.4	-1366.5	-538.0	330828.7	-55707.3	
	-11526.0	-418.6	-1405.0	1106.3	334396.1	-81233.8	
	-11538.1	-361.3	-1392.7	584.9	333262.1	-73165.3	
	-11532.5	-387.9	-1398.8	837.1	333822.7	-76917.1	
	-11544.6	-330.7	-1386.6	315.7	332688.7	-68848.5	
	-11506.3	-511.9	-1425.1	1960.0	336256.0	-94375.1	
	-11518.4	-454.6	-1412.8	1438.6	335122.0	-86306.5	
Asta	132	nod1	66	115			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-8384.2	-61.6	-377.4	-1035.5	-47009.1	3864.8	
	-8374.5	-4.4	-376.8	-1550.7	-46827.1	-6933.5	
	-8405.3	-185.5	-378.7	74.4	-47374.2	27226.1	
	-8395.5	-128.2	-378.0	-440.8	-47192.2	16427.8	
	-8400.1	-154.9	-378.5	-192.5	-47319.8	21454.1	
	-8390.4	-97.6	-377.9	-707.7	-47137.8	10655.7	
	-8421.2	-278.7	-379.8	917.4	-47684.9	44815.4	
	-8411.4	-221.5	-379.1	402.1	-47502.9	34017.0	
	-8404.6	-174.1	-381.4	-21.9	-48007.6	25080.0	
	-8394.9	-116.8	-380.8	-537.1	-47825.7	14281.7	

	-8425.7	-297.9	-382.7	1088.0	-48372.7	48441.3
	-8415.9	-240.7	-382.0	572.7	-48190.7	37643.0
	-8420.5	-267.3	-382.5	821.0	-48318.3	42669.3
	-8410.8	-210.1	-381.9	305.8	-48136.3	31871.0
	-8441.6	-391.1	-383.8	1930.9	-48683.4	66030.6
	-8431.8	-333.9	-383.1	1415.7	-48501.4	55232.3
165.	-7889.2	-61.6	-377.4	-1035.5	15266.2	-6303.1
	-7879.5	-4.4	-376.8	-1550.7	15343.0	-7656.9
	-7910.3	-185.5	-378.7	74.4	15109.2	-3374.2
	-7900.5	-128.2	-378.0	-440.8	15185.9	-4728.0
	-7905.1	-154.9	-378.5	-192.5	15137.0	-4097.9
	-7895.4	-97.6	-377.9	-707.7	15213.7	-5451.7
	-7926.2	-278.7	-379.8	917.4	14979.9	-1169.0
	-7916.4	-221.5	-379.1	402.1	15056.7	-2522.8
	-7909.6	-174.1	-381.4	-21.9	14921.9	-3643.1
	-7899.9	-116.8	-380.8	-537.1	14998.7	-4996.9
	-7930.7	-297.9	-382.7	1088.0	14764.9	-714.2
	-7920.9	-240.7	-382.0	572.7	14841.6	-2068.0
	-7925.5	-267.3	-382.5	821.0	14792.7	-1438.0
	-7915.8	-210.1	-381.9	305.8	14869.4	-2791.8
	-7946.6	-391.1	-383.8	1930.9	14635.6	1490.9
	-7936.8	-333.9	-383.1	1415.7	14712.4	137.1
330.	-7394.2	-61.6	-377.4	-1035.5	77539.2	-16470.9
	-7384.5	-4.4	-376.8	-1550.7	77510.7	-8380.2
	-7415.3	-185.5	-378.7	74.4	77592.2	-33974.4
	-7405.5	-128.2	-378.0	-440.8	77563.7	-25883.7
	-7410.1	-154.9	-378.5	-192.5	77591.3	-29649.9
	-7400.4	-97.6	-377.9	-707.7	77562.8	-21559.2
	-7431.2	-278.7	-379.8	917.4	77644.3	-47153.4
	-7421.4	-221.5	-379.1	402.1	77615.8	-39062.7
	-7414.6	-174.1	-381.4	-21.9	77851.9	-32366.3
	-7404.9	-116.8	-380.8	-537.1	77823.4	-24275.6
	-7435.7	-297.9	-382.7	1088.0	77905.0	-49869.8
	-7425.9	-240.7	-382.0	572.7	77876.4	-41779.1
	-7430.5	-267.3	-382.5	821.0	77904.0	-45545.3
	-7420.8	-210.1	-381.9	305.8	77875.5	-37454.6
	-7451.6	-391.1	-383.8	1930.9	77957.1	-63048.8
	-7441.8	-333.9	-383.1	1415.7	77928.5	-54958.1
Asta	133	nod1	42	116		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-8724.0	709.3	-98.1	-1049.2	-27792.0	-74531.4
	-8733.6	779.6	-106.7	-1572.8	-30127.8	-86711.5
	-8703.3	557.0	-79.4	78.1	-22733.5	-48183.0
	-8712.9	627.4	-88.0	-445.6	-25069.3	-60363.1
	-8708.4	594.6	-84.0	-191.5	-23977.9	-54686.2
	-8718.0	665.0	-92.6	-715.1	-26313.7	-66866.3
	-8687.7	442.4	-65.3	935.8	-18919.4	-28337.8
	-8697.3	512.7	-73.9	412.1	-21255.2	-40517.9
	-8704.3	571.2	-83.4	-23.6	-23756.2	-50633.4
	-8713.9	641.6	-92.1	-547.3	-26092.0	-62813.5
	-8683.6	419.0	-64.7	1103.6	-18697.6	-24285.0
	-8693.2	489.4	-73.3	580.0	-21033.4	-36465.1
	-8688.7	456.5	-69.3	834.1	-19942.1	-30788.2
	-8698.3	526.9	-78.0	310.5	-22277.9	-42968.3
	-8668.0	304.3	-50.6	1961.4	-14883.5	-4439.8
	-8677.6	374.7	-59.2	1437.7	-17219.3	-16619.9
165.	-8229.0	709.3	-98.1	-1049.2	-11605.3	42496.6
	-8238.6	779.6	-106.7	-1572.8	-12515.6	41928.6
	-8208.3	557.0	-79.4	78.1	-9636.5	43725.5
	-8217.9	627.4	-88.0	-445.6	-10546.7	43157.5
	-8213.4	594.6	-84.0	-191.5	-10117.5	43422.0
	-8223.0	665.0	-92.6	-715.1	-11027.7	42854.0
	-8192.7	442.4	-65.3	935.8	-8148.6	44651.0
	-8202.3	512.7	-73.9	412.1	-9058.9	44082.9
	-8209.3	571.2	-83.4	-23.6	-9990.0	43616.8
	-8218.9	641.6	-92.1	-547.3	-10900.3	43048.8
	-8188.6	419.0	-64.7	1103.6	-8021.2	44845.8
	-8198.2	489.4	-73.3	580.0	-8931.4	44277.7
	-8193.7	456.5	-69.3	834.1	-8502.2	44542.3
	-8203.3	526.9	-78.0	310.5	-9412.4	43974.2
	-8173.0	304.3	-50.6	1961.4	-6533.3	45771.2
	-8182.6	374.7	-59.2	1437.7	-7443.6	45203.1
330.	-7734.0	709.3	-98.1	-1049.2	4584.1	159524.6
	-7743.6	779.6	-106.7	-1572.8	5099.4	170568.7
	-7713.3	557.0	-79.4	78.1	3463.3	135634.1
	-7722.9	627.4	-88.0	-445.6	3978.5	146678.1
	-7718.4	594.6	-84.0	-191.5	3745.7	141530.3
	-7728.0	665.0	-92.6	-715.1	4261.0	152574.4
	-7697.7	442.4	-65.3	935.8	2624.9	117639.8
	-7707.3	512.7	-73.9	412.1	3140.1	128683.8
	-7714.3	571.2	-83.4	-23.6	3773.4	137867.0
	-7723.9	641.6	-92.1	-547.3	4288.7	148911.1
	-7693.6	419.0	-64.7	1103.6	2652.6	113976.5
	-7703.2	489.4	-73.3	580.0	3167.8	125020.5
	-7698.7	456.5	-69.3	834.1	2935.1	119872.7
	-7708.3	526.9	-78.0	310.5	3450.3	130916.8
	-7678.0	304.3	-50.6	1961.4	1814.2	95982.2
	-7687.6	374.7	-59.2	1437.7	2329.4	107026.2

Asta	134	nod1	43	117		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-5294.2	-125.8	604.1	-1017.0	56994.4	10993.8
	-5275.9	-82.0	645.0	-1522.3	66784.6	2288.3
	-5333.6	-220.6	515.9	71.9	35841.7	29817.7
	-5315.4	-176.8	556.7	-433.5	45631.9	21112.3
	-5323.9	-197.3	537.6	-190.9	41040.8	25182.4
	-5305.6	-153.4	578.4	-696.3	50831.0	16477.0
	-5363.3	-292.0	449.4	897.9	19888.2	44006.4
	-5345.1	-248.2	490.2	392.5	29678.3	35301.0
	-5329.8	-210.2	521.6	-17.8	37262.1	27768.6
	-5311.5	-166.3	562.4	-523.2	47052.2	19063.1
	-5369.2	-304.9	433.3	1071.0	16109.4	46592.6
	-5351.0	-261.1	474.2	565.6	25899.6	37887.1
	-5359.5	-281.6	455.0	808.2	21308.5	41957.3
	-5341.3	-237.8	495.9	302.8	31098.7	33251.8
	-5399.0	-376.4	366.8	1897.1	155.8	60781.2
	-5380.7	-332.5	407.6	1391.7	9946.0	52075.8
165.	-4799.2	-125.8	604.1	-1017.0	-42688.7	-9769.5
	-4780.9	-82.0	645.0	-1522.3	-39637.4	-11243.8
	-4838.6	-220.6	515.9	71.9	-49281.9	-6582.2
	-4820.4	-176.8	556.7	-433.5	-46230.6	-8056.5
	-4828.9	-197.3	537.6	-190.9	-47661.8	-7366.7
	-4810.6	-153.4	578.4	-696.3	-44610.4	-8841.0
	-4868.3	-292.0	449.4	897.9	-54254.9	-4179.5
	-4850.1	-248.2	490.2	392.5	-51203.6	-5653.7
	-4834.8	-210.2	521.6	-17.8	-48798.7	-6909.2
	-4816.5	-166.3	562.4	-523.2	-45747.4	-8383.4
	-4874.2	-304.9	433.3	1071.0	-55391.9	-3721.9
	-4856.0	-261.1	474.2	565.6	-52340.6	-5196.1
	-4864.5	-281.6	455.0	808.2	-53771.7	-4506.4
	-4846.3	-237.8	495.9	302.8	-50720.4	-5980.6
	-4904.0	-376.4	366.8	1897.1	-60364.9	-1319.1
	-4885.7	-332.5	407.6	1391.7	-57313.6	-2793.4
330.	-4304.2	-125.8	604.1	-1017.0	-142372.1	-30532.7
	-4285.9	-82.0	645.0	-1522.3	-146059.6	-24775.8
	-4343.6	-220.6	515.9	71.9	-134405.8	-42982.1
	-4325.4	-176.8	556.7	-433.5	-138093.3	-37225.2
	-4333.9	-197.3	537.6	-190.9	-136364.6	-39915.8
	-4315.6	-153.4	578.4	-696.3	-140052.1	-34158.9
	-4373.3	-292.0	449.4	897.9	-128398.2	-52365.3
	-4355.1	-248.2	490.2	392.5	-132085.8	-46608.3
	-4339.8	-210.2	521.6	-17.8	-134859.3	-41587.0
	-4321.5	-166.3	562.4	-523.2	-138546.8	-35830.1
	-4379.2	-304.9	433.3	1071.0	-126893.0	-54036.4
	-4361.0	-261.1	474.2	565.6	-130580.5	-48279.5
	-4369.5	-281.6	455.0	808.2	-128851.7	-50970.1
	-4351.3	-237.8	495.9	302.8	-132539.3	-45213.2
	-4409.0	-376.4	366.8	1897.1	-120885.4	-63419.6
	-4390.7	-332.5	407.6	1391.7	-124572.9	-57662.6
Asta	135	nod1	40	118		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-16394.9	302.5	-291.9	-1073.6	-9297.8	-49669.4
	-16389.9	357.7	-177.2	-1608.0	10657.5	-59335.5
	-16405.9	183.0	-539.5	77.1	-52380.2	-28769.1
	-16400.8	238.2	-424.8	-457.2	-32424.8	-38435.1
	-16403.3	212.4	-479.0	-199.6	-41852.2	-33917.6
	-16398.2	267.7	-364.3	-733.9	-21896.9	-43583.7
	-16414.3	92.9	-726.6	951.1	-84934.6	-13017.3
	-16409.2	148.2	-611.9	416.8	-64979.2	-22683.4
	-16404.0	195.9	-521.6	-20.7	-49247.0	-31012.9
	-16398.9	251.2	-406.9	-555.0	-29291.6	-40678.9
	-16415.0	76.4	-769.2	1130.0	-92329.4	-10112.6
	-16409.9	131.7	-654.5	595.7	-72374.0	-19778.6
	-16412.4	105.9	-708.7	853.3	-81801.4	-15261.1
	-16407.3	161.1	-594.0	319.0	-61846.1	-24927.2
	-16423.3	-13.6	-956.3	2004.0	-124883.8	5639.2
	-16418.3	41.6	-841.6	1469.7	-104928.4	-4026.8
165.	-15899.9	302.5	-291.9	-1073.6	38857.8	237.6
	-15894.9	357.7	-177.2	-1608.0	39888.3	-311.3
	-15910.9	183.0	-539.5	77.1	36631.9	1424.0
	-15905.8	238.2	-424.8	-457.2	37662.4	875.1
	-15908.3	212.4	-479.0	-199.6	37177.5	1132.4
	-15903.2	267.7	-364.3	-733.9	38208.0	583.4
	-15919.3	92.9	-726.6	951.1	34951.6	2318.8
	-15914.2	148.2	-611.9	416.8	35982.1	1769.9
	-15909.0	195.9	-521.6	-20.7	36815.2	1309.8
	-15903.9	251.2	-406.9	-555.0	37845.7	760.8
	-15920.0	76.4	-769.2	1130.0	34589.3	2496.2
	-15914.9	131.7	-654.5	595.7	35619.8	1947.3
	-15917.4	105.9	-708.7	853.3	35134.9	2204.6
	-15912.3	161.1	-594.0	319.0	36165.4	1655.6
	-15928.3	-13.6	-956.3	2004.0	32909.0	3391.0
	-15923.3	41.6	-841.6	1469.7	33939.5	2842.0
330.	-15404.9	302.5	-291.9	-1073.6	87013.4	50144.7
	-15399.9	357.7	-177.2	-1608.0	69119.0	58712.8
	-15415.9	183.0	-539.5	77.1	125643.9	31617.3
	-15410.8	238.2	-424.8	-457.2	107749.6	40185.4
	-15413.3	212.4	-479.0	-199.6	116207.3	36182.5
	-15408.2	267.7	-364.3	-733.9	98312.9	44750.6

	-15424.3	92.9	-726.6	951.1	154837.8	17655.0
	-15419.2	148.2	-611.9	416.8	136943.5	26223.1
	-15414.0	195.9	-521.6	-20.7	122877.4	33632.5
	-15408.9	251.2	-406.9	-555.0	104983.0	42200.6
	-15425.0	76.4	-769.2	1130.0	161508.0	15105.0
	-15419.9	131.7	-654.5	595.7	143613.6	23673.1
	-15422.4	105.9	-708.7	853.3	152071.3	19670.2
	-15417.3	161.1	-594.0	319.0	134176.9	28238.3
	-15433.3	-13.6	-956.3	2004.0	190701.9	1142.7
	-15428.3	41.6	-841.6	1469.7	172807.5	9710.8
Asta	136	nod1	41	119		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-990.0	77.3	37.9	0.0	12492.0	-25494.7
	-990.0	87.8	71.3	0.0	23523.5	-28971.3
	-990.0	54.4	-34.3	0.0	-11328.0	-17959.9
	-990.0	65.0	-0.9	0.0	-296.5	-21436.6
	-990.0	60.1	-16.7	0.0	-5505.1	-19840.3
	-990.0	70.7	16.7	0.0	5526.4	-23316.9
	-990.0	37.3	-88.9	0.0	-29325.1	-12305.5
	-990.0	47.8	-55.4	0.0	-18293.5	-15782.2
	-990.0	57.1	-29.0	0.0	-9568.0	-18829.1
	-990.0	67.6	4.4	0.0	1463.5	-22305.7
	-990.0	34.2	-101.2	0.0	-33388.0	-11294.3
	-990.0	44.8	-67.7	0.0	-22356.5	-14771.0
	-990.0	39.9	-83.5	0.0	-27565.1	-13174.7
	-990.0	50.5	-50.1	0.0	-16533.5	-16651.3
	-990.0	17.1	-155.7	0.0	-51385.1	-5639.9
	-990.0	27.6	-122.3	0.0	-40353.5	-9116.6
165.	-495.0	77.3	37.9	0.0	6246.0	-12747.3
	-495.0	87.8	71.3	0.0	11761.8	-14485.7
	-495.0	54.4	-34.3	0.0	-5664.0	-8980.0
	-495.0	65.0	-0.9	0.0	-148.2	-10718.3
	-495.0	60.1	-16.7	0.0	-2752.6	-9920.1
	-495.0	70.7	16.7	0.0	2763.2	-11658.5
	-495.0	37.3	-88.9	0.0	-14662.5	-6152.8
	-495.0	47.8	-55.4	0.0	-9146.8	-7891.1
	-495.0	57.1	-29.0	0.0	-4784.0	-9414.5
	-495.0	67.6	4.4	0.0	731.8	-11152.9
	-495.0	34.2	-101.2	0.0	-16694.0	-5647.2
	-495.0	44.8	-67.7	0.0	-11178.2	-7385.5
	-495.0	39.9	-83.5	0.0	-13782.5	-6587.3
	-495.0	50.5	-50.1	0.0	-8266.8	-8325.7
	-495.0	17.1	-155.7	0.0	-25692.5	-2820.0
	-495.0	27.6	-122.3	0.0	-20176.8	-4558.3
330.	0.0	77.3	37.9	0.0	0.0	0.0
	0.0	87.8	71.3	0.0	0.0	0.0
	0.0	54.4	-34.3	0.0	0.0	0.0
	0.0	65.0	-0.9	0.0	0.0	0.0
	0.0	60.1	-16.7	0.0	0.0	0.0
	0.0	70.7	16.7	0.0	0.0	0.0
	0.0	37.3	-88.9	0.0	0.0	0.0
	0.0	47.8	-55.4	0.0	0.0	0.0
	0.0	57.1	-29.0	0.0	0.0	0.0
	0.0	67.6	4.4	0.0	0.0	0.0
	0.0	34.2	-101.2	0.0	0.0	0.0
	0.0	44.8	-67.7	0.0	0.0	0.0
	0.0	39.9	-83.5	0.0	0.0	0.0
	0.0	50.5	-50.1	0.0	0.0	0.0
	0.0	17.1	-155.7	0.0	0.0	0.0
	0.0	27.6	-122.3	0.0	0.0	0.0
Asta	137	nod1	4	120		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-8819.8	341.0	53.3	-1094.9	1901.8	-56238.6
	-8715.3	425.2	141.8	-1639.5	19426.4	-70650.7
	-9045.7	159.2	-137.6	78.0	-35922.9	-25093.9
	-8941.2	243.3	-49.2	-466.6	-18398.3	-39506.0
	-8990.3	203.8	-91.0	-204.0	-26693.2	-32741.9
	-8885.8	288.0	-2.6	-748.6	-9168.6	-47154.0
	-9216.2	22.0	-282.0	968.9	-64517.9	-1597.2
	-9111.6	106.1	-193.5	424.3	-46993.3	-16009.3
	-9025.3	178.3	-123.3	-19.6	-33065.1	-28348.1
	-8920.8	262.5	-34.8	-564.3	-15540.5	-42760.1
	-9251.2	-3.5	-314.3	1153.3	-70889.7	2796.7
	-9146.6	80.6	-225.8	608.7	-53365.1	-11615.4
	-9195.8	41.1	-267.7	871.2	-61660.1	-4851.4
	-9091.2	125.3	-179.2	326.6	-44135.5	-19263.4
	-9421.7	-140.7	-458.6	2044.2	-99484.7	26293.4
	-9317.1	-56.6	-370.2	1499.5	-81960.2	11881.3
165.	-8324.8	341.0	53.3	-1094.9	-6898.7	29.6
	-8220.3	425.2	141.8	-1639.5	-3972.4	-499.1
	-8550.7	159.2	-137.6	78.0	-13214.5	1171.4
	-8446.2	243.3	-49.2	-466.6	-10288.2	642.7
	-8495.3	203.8	-91.0	-204.0	-11674.0	891.9
	-8390.8	288.0	-2.6	-748.6	-8747.7	363.2
	-8721.2	22.0	-282.0	968.9	-17989.8	2033.8
	-8616.6	106.1	-193.5	424.3	-15063.5	1505.0
	-8530.3	178.3	-123.3	-19.6	-12719.9	1073.1
	-8425.8	262.5	-34.8	-564.3	-9793.6	544.4
	-8756.2	-3.5	-314.3	1153.3	-19035.7	2214.9

	-8651.6	80.6	-225.8	608.7	-16109.4	1686.2
	-8700.8	41.1	-267.7	871.2	-17495.2	1935.4
	-8596.2	125.3	-179.2	326.6	-14568.9	1406.7
	-8926.7	-140.7	-458.6	2044.2	-23811.0	3077.3
	-8822.1	-56.6	-370.2	1499.5	-20884.7	2548.5
330.	-7829.8	341.0	53.3	-1094.9	-15699.2	56298.0
	-7725.3	425.2	141.8	-1639.5	-27371.3	69652.6
	-8055.7	159.2	-137.6	78.0	9493.9	27436.9
	-7951.2	243.3	-49.2	-466.6	-2178.1	40791.5
	-8000.3	203.8	-91.0	-204.0	3345.2	34526.0
	-7895.8	288.0	-2.6	-748.6	-8326.8	47880.6
	-8226.2	22.0	-282.0	968.9	28538.3	5664.9
	-8121.6	106.1	-193.5	424.3	16866.3	19019.5
	-8035.3	178.3	-123.3	-19.6	7625.3	30494.1
	-7930.8	262.5	-34.8	-564.3	-4046.7	43848.7
	-8261.2	-3.5	-314.3	1153.3	32818.4	1633.0
	-8156.6	80.6	-225.8	608.7	21146.4	14987.6
	-8205.8	41.1	-267.7	871.2	26669.7	8722.1
	-8101.2	125.3	-179.2	326.6	14997.7	22076.7
	-8431.7	-140.7	-458.6	2044.2	51862.8	-20139.0
	-8327.1	-56.6	-370.2	1499.5	40190.8	-6784.4
Asta	138	nod1	45	121		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3246.3	237.9	-310.5	-965.9	-30138.4	-34172.4
	-3217.4	298.0	-240.4	-1445.8	-14308.3	-47315.8
	-3308.6	107.9	-461.9	67.6	-64306.6	-5787.0
	-3279.7	168.1	-391.8	-412.4	-48476.5	-18930.3
	-3293.4	139.7	-425.0	-180.2	-55967.7	-12730.3
	-3264.5	199.9	-354.8	-660.1	-40137.6	-25873.7
	-3355.7	9.7	-576.4	853.3	-90135.9	15655.1
	-3326.8	69.9	-506.2	373.3	-74305.8	2511.7
	-3304.7	120.8	-450.2	-17.4	-61660.9	-8591.2
	-3275.8	180.9	-380.0	-497.4	-45830.7	-21734.6
	-3367.1	-9.2	-601.6	1016.1	-95829.1	19794.2
	-3338.2	51.0	-531.4	536.1	-79998.9	6650.9
	-3351.9	22.6	-564.6	768.3	-87490.2	12850.9
	-3323.0	82.8	-494.5	288.3	-71660.0	-292.5
	-3414.2	-107.4	-716.0	1801.8	-121658.3	41236.3
	-3385.3	-47.2	-645.9	1321.8	-105828.2	28092.9
165.	-2751.3	237.9	-310.5	-965.9	21097.1	5074.1
	-2722.4	298.0	-240.4	-1445.8	25352.9	1860.4
	-2813.6	107.9	-461.9	67.6	11910.8	12014.5
	-2784.7	168.1	-391.8	-412.4	16166.7	8800.9
	-2798.4	139.7	-425.0	-180.2	14153.5	10316.5
	-2769.5	199.9	-354.8	-660.1	18409.3	7102.8
	-2860.7	9.7	-576.4	853.3	4967.2	17257.0
	-2831.8	69.9	-506.2	373.3	9223.1	14043.3
	-2809.7	120.8	-450.2	-17.4	12618.1	11333.0
	-2780.8	180.9	-380.0	-497.4	16874.0	8119.4
	-2872.1	-9.2	-601.6	1016.1	3431.9	18273.5
	-2843.2	51.0	-531.4	536.1	7687.7	15059.8
	-2856.9	22.6	-564.6	768.3	5674.5	16575.4
	-2828.0	82.8	-494.5	288.3	9930.4	13361.8
	-2919.2	-107.4	-716.0	1801.8	-3511.7	23515.9
	-2890.3	-47.2	-645.9	1321.8	744.1	20302.2
330.	-2256.3	237.9	-310.5	-965.9	72332.6	44320.6
	-2227.4	298.0	-240.4	-1445.8	65014.1	51036.6
	-2318.6	107.9	-461.9	67.6	88128.3	29816.1
	-2289.7	168.1	-391.8	-412.4	80809.9	36532.1
	-2303.4	139.7	-425.0	-180.2	84274.7	33363.3
	-2274.5	199.9	-354.8	-660.1	76956.2	40079.4
	-2365.7	9.7	-576.4	853.3	100070.4	18858.8
	-2336.8	69.9	-506.2	373.3	92751.9	25574.9
	-2314.7	120.8	-450.2	-17.4	86897.1	31257.2
	-2285.8	180.9	-380.0	-497.4	79578.7	37973.3
	-2377.1	-9.2	-601.6	1016.1	102692.9	16752.7
	-2348.2	51.0	-531.4	536.1	95374.4	23468.8
	-2361.9	22.6	-564.6	768.3	98839.2	20300.0
	-2333.0	82.8	-494.5	288.3	91520.8	27016.0
	-2424.2	-107.4	-716.0	1801.8	114635.0	5795.5
	-2395.3	-47.2	-645.9	1321.8	107316.5	12511.5
Asta	139	nod1	18	122		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3300.3	176.4	-222.4	-1094.5	-35024.9	-31007.6
	-3155.8	238.4	-222.7	-1642.3	-35181.0	-42781.6
	-3612.4	42.6	-220.0	83.2	-34450.9	-5624.6
	-3467.9	104.7	-220.3	-464.5	-34607.0	-17398.5
	-3536.1	75.0	-222.6	-201.1	-34903.3	-11765.3
	-3391.6	137.0	-223.0	-748.8	-35059.4	-23539.2
	-3848.2	-58.8	-220.3	976.7	-34329.3	13617.8
	-3703.7	3.3	-220.6	429.0	-34485.4	1843.8
	-3585.8	52.7	-228.2	-22.2	-35851.2	-7540.5
	-3441.2	114.7	-228.5	-569.9	-36007.3	-19314.5
	-3897.9	-81.0	-225.9	1155.6	-35277.2	17842.5
	-3753.3	-19.0	-226.2	607.8	-35433.3	6068.6
	-3821.6	-48.7	-228.5	871.3	-35729.6	11701.8
	-3677.0	13.3	-228.8	323.6	-35885.7	-72.1
	-4133.7	-182.4	-226.1	2049.0	-35155.6	37084.8
	-3989.1	-120.4	-226.4	1501.3	-35311.6	25310.9

165.	-2805.3	176.4	-222.4	-1094.5	1619.7	-1908.6
	-2660.8	238.4	-222.7	-1642.3	1517.0	-3447.2
	-3117.4	42.6	-220.0	83.2	1843.9	1410.0
	-2972.9	104.7	-220.3	-464.5	1741.2	-128.6
	-3041.1	75.0	-222.6	-201.1	1785.3	604.7
	-2896.6	137.0	-223.0	-748.8	1682.6	-933.9
	-3353.2	-58.8	-220.3	976.7	2009.5	3923.3
	-3208.7	3.3	-220.6	429.0	1906.8	2384.7
	-3090.8	52.7	-228.2	-22.2	1810.4	1154.1
	-2946.2	114.7	-228.5	-569.9	1707.8	-384.5
	-3402.9	-81.0	-225.9	1155.6	2034.6	4472.7
	-3258.3	-19.0	-226.2	607.8	1932.0	2934.1
	-3326.6	-48.7	-228.5	871.3	1976.0	3667.4
	-3182.0	13.3	-228.8	323.6	1873.3	2128.7
	-3638.7	-182.4	-226.1	2049.0	2200.2	6986.0
	-3494.1	-120.4	-226.4	1501.3	2097.6	5447.4
330.	-2310.3	176.4	-222.4	-1094.5	38380.4	27190.5
	-2165.8	238.4	-222.7	-1642.3	38331.2	35887.1
	-2622.4	42.6	-220.0	83.2	38115.0	8444.7
	-2477.9	104.7	-220.3	-464.5	38065.7	17141.3
	-2546.1	75.0	-222.6	-201.1	38590.0	12974.7
	-2401.6	137.0	-223.0	-748.8	38540.7	21671.4
	-2858.2	-58.8	-220.3	976.7	38324.5	-5771.1
	-2713.7	3.3	-220.6	429.0	38275.3	2925.6
	-2595.8	52.7	-228.2	-22.2	39495.8	9848.7
	-2451.2	114.7	-228.5	-569.9	39446.6	18545.4
	-2907.9	-81.0	-225.9	1155.6	39230.3	-8897.1
	-2763.3	-19.0	-226.2	607.8	39181.1	-200.4
	-2831.6	-48.7	-228.5	871.3	39705.3	-4367.1
	-2687.0	13.3	-228.8	323.6	39656.1	4329.6
	-3143.7	-182.4	-226.1	2049.0	39439.9	-23112.9
	-2999.1	-120.4	-226.4	1501.3	39390.6	-14416.2
Asta	140	nod	35	123		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3920.8	180.5	690.3	-1082.6	115194.3	-31122.6
	-4038.7	177.3	888.1	-1621.6	148557.1	-31143.2
	-3666.1	187.0	264.2	79.0	43280.9	-30934.9
	-3784.0	183.8	461.9	-460.0	76643.7	-30955.5
	-3728.6	186.2	367.2	-201.3	60665.8	-31155.8
	-3846.5	182.9	564.9	-740.3	94028.6	-31176.4
	-3473.9	192.7	-59.0	960.4	-11247.6	-30968.0
	-3591.8	189.4	138.7	421.4	22115.2	-30988.6
	-3688.9	189.7	296.3	-19.8	48732.6	-31626.8
	-3806.8	186.5	494.1	-558.8	82095.4	-31647.4
	-3434.2	196.2	-129.8	1141.8	-23180.8	-31439.0
	-3552.1	193.0	67.9	602.9	10182.0	-31459.6
	-3496.7	195.3	-26.9	861.5	-5795.9	-31659.9
	-3614.6	192.1	170.9	322.5	27566.9	-31680.5
	-3242.0	201.8	-453.0	2023.2	-77709.3	-31472.2
	-3359.9	198.6	-255.3	1484.2	-44346.5	-31492.8
165.	-3425.8	180.5	690.3	-1082.6	1288.2	-1344.3
	-3543.7	177.3	888.1	-1621.6	2026.3	-1897.3
	-3171.1	187.0	264.2	79.0	-306.3	-148.8
	-3289.0	183.8	461.9	-460.0	431.7	-701.8
	-3233.6	186.2	367.2	-201.3	84.8	-443.3
	-3351.5	182.9	564.9	-740.3	822.8	-996.3
	-2978.9	192.7	-59.0	960.4	-1509.8	752.3
	-3096.8	189.4	138.7	421.4	-771.7	199.3
	-3193.9	189.7	296.3	-19.8	-162.1	-261.8
	-3311.8	186.5	494.1	-558.8	575.9	-814.8
	-2939.2	196.2	-129.8	1141.8	-1756.7	933.7
	-3057.1	193.0	67.9	602.9	-1018.6	380.7
	-3001.7	195.3	-26.9	861.5	-1365.6	639.2
	-3119.6	192.1	170.9	322.5	-627.5	86.2
	-2747.0	201.8	-453.0	2023.2	-2960.1	1834.7
	-2864.9	198.6	-255.3	1484.2	-2222.1	1281.7
330.	-2930.8	180.5	690.3	-1082.6	-112617.9	28445.7
	-3048.7	177.3	888.1	-1621.6	-144504.5	27360.3
	-2676.1	187.0	264.2	79.0	-43893.6	30709.8
	-2794.0	183.8	461.9	-460.0	-75780.3	29624.4
	-2738.6	186.2	367.2	-201.3	-60496.3	30280.9
	-2856.5	182.9	564.9	-740.3	-92382.9	29195.5
	-2483.9	192.7	-59.0	960.4	8228.0	32545.0
	-2601.8	189.4	138.7	421.4	-23658.7	31459.6
	-2698.9	189.7	296.3	-19.8	-49056.8	31030.8
	-2816.8	186.5	494.1	-558.8	-80943.4	29945.4
	-2444.2	196.2	-129.8	1141.8	19667.5	33294.9
	-2562.1	193.0	67.9	602.9	-12219.1	32209.5
	-2506.7	195.3	-26.9	861.5	3064.8	32866.0
	-2624.6	192.1	170.9	322.5	-28821.8	31780.6
	-2252.0	201.8	-453.0	2023.2	71789.1	35130.1
	-2369.9	198.6	-255.3	1484.2	39902.5	34044.7
Asta	141	nod	15	124		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2838.2	464.2	150.4	-1085.4	28091.6	-78955.9
	-2938.2	539.8	244.7	-1626.4	46311.6	-93304.9
	-2621.9	301.0	-52.5	79.4	-11098.9	-47969.9
	-2721.9	376.6	41.8	-461.6	7121.1	-62318.8
	-2675.3	340.9	-4.1	-201.2	-1754.0	-55552.1

	-2775.3	416.5	90.2	-742.2	16466.0	-69901.1
	-2459.1	177.7	-207.0	963.6	-40944.6	-24566.0
	-2559.1	253.3	-112.7	422.6	-22724.6	-38915.0
	-2643.4	315.6	-39.8	-22.0	-8647.8	-50724.5
	-2743.4	391.1	54.6	-563.0	9572.2	-65073.4
	-2427.1	152.3	-242.7	1142.8	-47838.3	-19738.4
	-2527.1	227.9	-148.4	601.8	-29618.3	-34087.4
	-2480.5	192.3	-194.3	862.2	-38493.5	-27320.7
	-2580.5	267.9	-100.0	321.2	-20273.5	-41669.6
	-2264.3	29.0	-397.2	2027.0	-77684.0	3665.4
	-2364.3	104.6	-302.9	1486.0	-59464.0	-10683.5
165.	-2343.2	464.2	150.4	-1085.4	3276.4	-2362.5
	-2443.2	539.8	244.7	-1626.4	5930.9	-4239.7
	-2126.9	301.0	-52.5	79.4	-2432.2	1689.2
	-2226.9	376.6	41.8	-461.6	222.3	-187.9
	-2180.3	340.9	-4.1	-201.2	-1072.8	700.7
	-2280.3	416.5	90.2	-742.2	1581.7	-1176.4
	-1964.1	177.7	-207.0	963.6	-6781.3	4752.5
	-2064.1	253.3	-112.7	422.6	-4126.9	2875.3
	-2148.4	315.6	-39.8	-22.0	-2083.7	1342.1
	-2248.4	391.1	54.6	-563.0	570.7	-535.0
	-1932.1	152.3	-242.7	1142.8	-7792.3	5393.9
	-2032.1	227.9	-148.4	601.8	-5137.8	3516.7
	-1985.5	192.3	-194.3	862.2	-6432.9	4405.4
	-2085.5	267.9	-100.0	321.2	-3778.5	2528.2
	-1769.3	29.0	-397.2	2027.0	-12141.5	8457.1
330.	-1869.3	104.6	-302.9	1486.0	-9487.0	6580.0
	-1848.2	464.2	150.4	-1085.4	-21538.9	74230.9
	-1948.2	539.8	244.7	-1626.4	-34449.9	84825.6
	-1631.9	301.0	-52.5	79.4	6234.6	51348.3
	-1731.9	376.6	41.8	-461.6	-6676.5	61943.0
	-1685.3	340.9	-4.1	-201.2	-391.6	56953.6
	-1785.3	416.5	90.2	-742.2	-13302.6	67548.3
	-1469.1	177.7	-207.0	963.6	27381.9	34071.0
	-1569.1	253.3	-112.7	422.6	14470.8	44665.7
	-1653.4	315.6	-39.8	-22.0	4480.3	53408.7
	-1753.4	391.1	54.6	-563.0	-8430.7	64003.4
	-1437.1	152.3	-242.7	1142.8	32253.8	30526.1
	-1537.1	227.9	-148.4	601.8	19342.7	41120.8
	-1490.5	192.3	-194.3	862.2	25627.6	36131.4
	-1590.5	267.9	-100.0	321.2	12716.6	46726.1
	-1274.3	29.0	-397.2	2027.0	53401.1	13248.8
	-1374.3	104.6	-302.9	1486.0	40490.0	23843.5
Asta	142	nod	16	125		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-6227.5	154.0	888.2	-1099.2	140446.5	-33057.2
	-6077.8	174.9	1117.9	-1647.2	178639.5	-36634.0
	-6551.0	108.5	393.0	80.2	58098.6	-25277.2
	-6401.3	129.4	622.7	-467.7	96291.7	-28854.0
	-6471.7	120.1	513.0	-203.7	78041.5	-27270.3
	-6321.9	141.0	742.6	-751.7	116234.6	-30847.1
	-6795.2	74.7	17.8	975.7	-4306.3	-19490.2
	-6645.4	95.6	247.5	427.8	33886.8	-23067.0
	-6521.5	114.6	431.5	-22.9	64482.8	-26355.5
	-6371.7	135.5	661.1	-570.8	102675.9	-29932.3
	-6845.0	69.1	-63.7	1156.6	-17865.0	-18575.4
	-6695.2	90.0	165.9	608.7	20328.1	-22152.2
	-6765.6	80.7	56.2	872.6	2077.9	-20568.5
	-6615.9	101.6	285.9	324.7	40271.0	-24145.3
	-7089.1	35.3	-439.0	2052.1	-80269.9	-12788.5
	-6939.4	56.2	-209.3	1504.2	-42076.9	-16365.3
165.	-5732.5	154.0	888.2	-1099.2	-6109.7	-7654.3
	-5582.8	174.9	1117.9	-1647.2	-5811.0	-7781.1
	-6056.0	108.5	393.0	80.2	-6753.0	-7372.8
	-5906.3	129.4	622.7	-467.7	-6454.3	-7499.5
	-5976.7	120.1	513.0	-203.7	-6598.4	-7453.9
	-5826.9	141.0	742.6	-751.7	-6299.7	-7580.7
	-6300.2	74.7	17.8	975.7	-7241.7	-7172.4
	-6150.4	95.6	247.5	427.8	-6943.0	-7299.1
	-6026.5	114.6	431.5	-22.9	-6707.9	-7450.2
	-5876.7	135.5	661.1	-570.8	-6409.2	-7577.0
	-6350.0	69.1	-63.7	1156.6	-7351.3	-7168.7
	-6200.2	90.0	165.9	608.7	-7052.5	-7295.4
	-6270.6	80.7	56.2	872.6	-7196.7	-7249.8
	-6120.9	101.6	285.9	324.7	-6897.9	-7376.6
	-6594.1	35.3	-439.0	2052.1	-7840.0	-6968.3
	-6444.4	56.2	-209.3	1504.2	-7541.2	-7095.0
330.	-5237.5	154.0	888.2	-1099.2	-152665.9	17750.6
	-5087.8	174.9	1117.9	-1647.2	-190261.6	21073.9
	-5561.0	108.5	393.0	80.2	-71604.7	10533.3
	-5411.3	129.4	622.7	-467.7	-109200.3	13856.6
	-5481.7	120.1	513.0	-203.7	-91238.4	12364.4
	-5331.9	141.0	742.6	-751.7	-128834.0	15687.7
	-5805.2	74.7	17.8	975.7	-10177.2	5147.1
	-5655.4	95.6	247.5	427.8	-47772.8	8470.5
	-5531.5	114.6	431.5	-22.9	-77898.7	11453.3
	-5381.7	135.5	661.1	-570.8	-115494.4	14776.6
	-5855.0	69.1	-63.7	1156.6	3162.5	4236.1
	-5705.2	90.0	165.9	608.7	-34433.1	7559.4
	-5775.6	80.7	56.2	872.6	-16471.2	6067.2

		-5625.9	101.6	285.9	324.7	-54066.8	9390.5
		-6099.1	35.3	-439.0	2052.1	64590.0	-1150.1
		-5949.4	56.2	-209.3	1504.2	26994.4	2173.2
Asta	143	nod1	10	126			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.		-5279.1	990.5	252.9	-1061.9	35238.6	-137583.4
		-5294.3	1066.5	342.9	-1590.5	53335.7	-153869.9
		-5245.9	826.5	59.4	76.1	-3689.5	-102423.7
		-5261.2	902.4	149.4	-452.4	14407.7	-118710.2
		-5254.3	866.5	105.6	-197.2	5593.8	-111011.6
		-5269.6	942.5	195.5	-725.8	23691.0	-127298.1
		-5221.2	702.5	-87.9	940.9	-33334.2	-75851.9
		-5236.4	778.5	2.0	412.3	-15237.1	-92138.4
		-5250.3	841.1	71.7	-21.1	-1246.3	-105537.4
		-5265.5	917.0	161.6	-549.7	16850.8	-121823.9
		-5217.1	677.0	-121.8	1117.0	-40174.4	-70377.7
		-5232.4	753.0	-31.9	588.4	-22077.2	-86664.2
		-5225.5	717.1	-75.7	843.7	-30891.1	-78965.7
		-5240.8	793.1	14.3	315.1	-12793.9	-95252.2
		-5192.4	553.1	-269.2	1981.8	-69819.1	-43806.0
		-5207.6	629.1	-179.2	1453.2	-51722.0	-60092.5
165.		-4784.1	990.5	252.9	-1061.9	-6495.3	25849.2
		-4799.3	1066.5	342.9	-1590.5	-3239.8	22099.2
		-4750.9	826.5	59.4	76.1	-13496.6	33943.5
		-4766.2	902.4	149.4	-452.4	-10241.1	30193.4
		-4759.3	866.5	105.6	-197.2	-11829.5	31968.8
		-4774.6	942.5	195.5	-725.8	-8573.9	28218.7
		-4726.2	702.5	-87.9	940.9	-18830.8	40063.0
		-4741.4	778.5	2.0	412.3	-15575.3	36313.0
		-4755.3	841.1	71.7	-21.1	-13070.0	33238.3
		-4770.5	917.0	161.6	-549.7	-9814.5	29488.3
		-4722.1	677.0	-121.8	1117.0	-20071.3	41332.6
		-4737.4	753.0	-31.9	588.4	-16815.8	37582.5
		-4730.5	717.1	-75.7	843.7	-18404.1	39357.9
		-4745.8	793.1	14.3	315.1	-15148.6	35607.8
		-4697.4	553.1	-269.2	1981.8	-25405.4	47452.1
		-4712.6	629.1	-179.2	1453.2	-22149.9	43702.1
330.		-4289.1	990.5	252.9	-1061.9	-48229.2	189281.9
		-4304.3	1066.5	342.9	-1590.5	-59815.3	198068.3
		-4255.9	826.5	59.4	76.1	-23303.8	170310.7
		-4271.2	902.4	149.4	-452.4	-34889.9	179097.1
		-4264.3	866.5	105.6	-197.2	-29252.7	174949.2
		-4279.6	942.5	195.5	-725.8	-40838.8	183735.6
		-4231.2	702.5	-87.9	940.9	-4327.4	155978.0
		-4246.4	778.5	2.0	412.3	-15913.4	164764.4
		-4260.3	841.1	71.7	-21.1	-24893.6	172014.1
		-4275.5	917.0	161.6	-549.7	-36479.7	180800.5
		-4227.1	677.0	-121.8	1117.0	31.8	153042.9
		-4242.4	753.0	-31.9	588.4	-11554.3	161829.3
		-4235.5	717.1	-75.7	843.7	-5917.1	157681.4
		-4250.8	793.1	14.3	315.1	-17503.2	166467.8
		-4202.4	553.1	-269.2	1981.8	19008.2	138710.2
		-4217.6	629.1	-179.2	1453.2	7422.1	147496.6
Asta	144	nod1	11	127			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.		-7360.0	-87.8	658.4	-1088.4	121258.2	-14702.2
		-7436.6	-41.5	923.1	-1630.1	165237.9	-23016.1
		-7194.9	-187.9	87.4	78.1	26408.2	3279.8
		-7271.5	-141.6	352.2	-463.6	70387.9	-5034.1
		-7234.8	-163.2	226.0	-201.9	49421.2	-1166.8
		-7311.4	-116.9	490.7	-743.6	93400.9	-9480.7
		-7069.7	-263.4	-345.0	964.7	-45428.9	16815.1
		-7146.3	-217.1	-80.3	422.9	-1449.2	8501.2
		-7207.0	-177.6	132.8	-21.9	33942.2	1368.7
		-7283.5	-131.2	397.5	-563.7	77921.8	-6945.2
		-7041.9	-277.7	-438.2	1144.6	-60907.9	19350.7
		-7118.5	-231.4	-173.4	602.8	-16928.2	11036.7
		-7081.8	-253.0	-299.6	864.6	-37894.9	14904.0
		-7158.4	-206.7	-34.9	322.8	6084.8	6590.1
		-6916.7	-353.1	-870.6	2031.1	-132745.0	32886.0
		-6993.3	-306.8	-605.9	1489.3	-88765.3	24572.1
165.		-6865.0	-87.8	658.4	-1088.4	12624.8	-29192.5
		-6941.6	-41.5	923.1	-1630.1	12922.5	-29865.7
		-6699.9	-187.9	87.4	78.1	11982.8	-27731.7
		-6776.5	-141.6	352.2	-463.6	12280.6	-28404.8
		-6739.8	-163.2	226.0	-201.9	12138.2	-28100.8
		-6816.4	-116.9	490.7	-743.6	12436.0	-28773.9
		-6574.7	-263.4	-345.0	964.7	11496.2	-26640.0
		-6651.3	-217.1	-80.3	422.9	11794.0	-27313.1
		-6712.0	-177.6	132.8	-21.9	12032.5	-27928.2
		-6788.5	-131.2	397.5	-563.7	12330.3	-28601.3
		-6546.9	-277.7	-438.2	1144.6	11390.5	-26467.3
		-6623.5	-231.4	-173.4	602.8	11688.3	-27140.5
		-6586.8	-253.0	-299.6	864.6	11545.9	-26836.4
		-6663.4	-206.7	-34.9	322.8	11843.7	-27509.6
		-6421.7	-353.1	-870.6	2031.1	10903.9	-25375.6
		-6498.3	-306.8	-605.9	1489.3	11201.7	-26048.7
330.		-6370.0	-87.8	658.4	-1088.4	-96008.7	-43682.5
		-6446.6	-41.5	923.1	-1630.1	-139392.8	-36714.9

	-6204.9	-187.9	87.4	78.1	-2442.6	-58742.9
	-6281.5	-141.6	352.2	-463.6	-45826.8	-51775.2
	-6244.8	-163.2	226.0	-201.9	-25144.8	-55034.4
	-6321.4	-116.9	490.7	-743.6	-68528.9	-48066.8
	-6079.7	-263.4	-345.0	964.7	68421.3	-70094.8
	-6156.3	-217.1	-80.3	422.9	25037.1	-63127.1
	-6217.0	-177.6	132.8	-21.9	-9877.2	-57225.4
	-6293.5	-131.2	397.5	-563.7	-53261.3	-50257.7
	-6051.9	-277.7	-438.2	1144.6	83688.9	-72285.7
	-6128.5	-231.4	-173.4	602.8	40304.8	-65318.1
	-6091.8	-253.0	-299.6	864.6	60986.8	-68577.2
	-6168.4	-206.7	-34.9	322.8	17602.6	-61609.6
	-5926.7	-353.1	-870.6	2031.1	154552.8	-83637.6
	-6003.3	-306.8	-605.9	1489.3	111168.7	-76670.0
Asta	145	nodì	128	129		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-7963.9	267.3	-416.1	-1034.7	-100036.0	-15941.6
	-7968.1	302.5	-584.2	-1549.7	-135542.1	-23853.1
	-7954.9	191.5	-53.3	74.1	-23414.3	1084.7
	-7959.0	226.8	-221.4	-440.9	-58920.4	-6826.8
	-7957.3	209.6	-141.8	-191.9	-42082.1	-2987.2
	-7961.4	244.9	-309.9	-706.9	-77588.1	-10898.7
	-7948.2	133.8	221.0	917.0	34539.7	14039.0
	-7952.3	169.1	52.9	402.0	-966.4	6127.5
	-7956.7	196.0	-85.3	-20.2	-30126.6	49.5
	-7960.9	231.2	-253.4	-535.2	-65632.7	-7862.0
	-7947.7	120.2	277.5	1088.6	46495.1	17075.8
	-7951.8	155.4	109.4	573.6	10989.0	9164.3
	-7950.0	138.3	189.1	822.6	27827.3	13003.9
	-7954.2	173.5	21.0	307.6	-7678.7	5092.4
	-7941.0	62.5	551.9	1931.4	104449.1	30030.2
	-7945.1	97.7	383.8	1416.4	68943.0	22118.7
165.	-7468.9	267.3	-416.1	-1034.7	-31374.8	28165.8
	-7473.1	302.5	-584.2	-1549.7	-39143.0	26066.2
	-7459.9	191.5	-53.3	74.1	-14613.5	32687.2
	-7464.0	226.8	-221.4	-440.9	-22381.7	30587.6
	-7462.3	209.6	-141.8	-191.9	-18693.2	31601.2
	-7466.4	244.9	-309.9	-706.9	-26461.4	29501.6
	-7453.2	133.8	221.0	917.0	-1932.0	36122.6
	-7457.3	169.1	52.9	402.0	-9700.2	34023.0
	-7461.7	196.0	-85.3	-20.2	-16059.6	32382.9
	-7465.9	231.2	-253.4	-535.2	-23827.7	30283.2
	-7452.7	120.2	277.5	1088.6	701.7	36904.2
	-7456.8	155.4	109.4	573.6	-7066.5	34804.6
	-7455.0	138.3	189.1	822.6	-3378.0	35818.3
	-7459.2	173.5	21.0	307.6	-11146.2	33718.6
	-7446.0	62.5	551.9	1931.4	13383.2	40339.6
	-7450.1	97.7	383.8	1416.4	5615.0	38240.0
330.	-6973.9	267.3	-416.1	-1034.7	37286.5	72273.3
	-6978.1	302.5	-584.2	-1549.7	57256.2	75985.6
	-6964.9	191.5	-53.3	74.1	-5812.8	64289.8
	-6969.0	226.8	-221.4	-440.9	14157.0	68002.1
	-6967.3	209.6	-141.8	-191.9	4695.6	66189.8
	-6971.4	244.9	-309.9	-706.9	24665.3	69902.0
	-6958.2	133.8	221.0	917.0	-38403.7	58206.2
	-6962.3	169.1	52.9	402.0	-18433.9	61918.5
	-6966.7	196.0	-85.3	-20.2	-1992.5	64716.1
	-6970.9	231.2	-253.4	-535.2	17977.2	68428.4
	-6957.7	120.2	277.5	1088.6	-45091.8	56732.5
	-6961.8	155.4	109.4	573.6	-25122.0	60444.8
	-6960.0	138.3	189.1	822.6	-34583.4	58632.5
	-6964.2	173.5	21.0	307.6	-14613.7	62344.8
	-6951.0	62.5	551.9	1931.4	-77682.7	50649.0
	-6955.1	97.7	383.8	1416.4	-57712.9	54361.3
Asta	152	nodì	31	136		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3222.7	-11.5	-278.4	-965.4	-18369.9	-15905.4
	-3137.9	42.9	-185.7	-1445.6	3051.2	-27470.0
	-3405.7	-128.9	-478.4	68.3	-64570.4	9074.8
	-3320.9	-74.5	-385.7	-411.8	-43149.3	-2489.9
	-3361.2	-100.1	-429.8	-179.2	-53353.2	2954.9
	-3276.3	-45.8	-337.1	-659.4	-31932.1	-8609.7
	-3544.2	-217.6	-629.8	854.6	-99553.7	27935.1
	-3459.3	-163.2	-537.1	374.4	-78132.6	16370.5
	-3390.5	-117.0	-462.9	-17.7	-60989.2	6524.5
	-3305.7	-62.6	-370.2	-497.9	-39568.1	-5040.1
	-3573.5	-234.4	-662.9	1016.1	-107189.7	31504.7
	-3488.7	-180.0	-570.2	535.9	-85768.6	19940.1
	-3529.0	-205.6	-614.3	768.5	-95972.5	25384.9
	-3444.2	-151.3	-521.6	288.4	-74551.5	13820.3
	-3712.0	-323.1	-814.3	1802.3	-142173.1	50365.1
	-3627.2	-268.7	-721.6	1322.1	-120752.0	38800.4
165.	-2727.7	-11.5	-278.4	-965.4	27569.6	-17800.8
	-2642.9	42.9	-185.7	-1445.6	33693.4	-20395.7
	-2910.7	-128.9	-478.4	68.3	14361.8	-12195.4
	-2825.9	-74.5	-385.7	-411.8	20485.7	-14790.2
	-2866.2	-100.1	-429.8	-179.2	17568.4	-13569.4
	-2781.3	-45.8	-337.1	-659.4	23692.2	-16164.2
	-3049.2	-217.6	-629.8	854.6	4360.7	-7963.9

	-2964.3	-163.2	-537.1	374.4	10484.5	-10558.7
	-2895.5	-117.0	-462.9	-17.7	15390.0	-12775.2
	-2810.7	-62.6	-370.2	-497.9	21513.8	-15370.0
	-3078.5	-234.4	-662.9	1016.1	2182.3	-7169.7
	-2993.7	-180.0	-570.2	535.9	8306.1	-9764.5
	-3034.0	-205.6	-614.3	768.5	5388.8	-8543.7
	-2949.2	-151.3	-521.6	288.4	11512.7	-11138.5
	-3217.0	-323.1	-814.3	1802.3	-7818.9	-2938.2
	-3132.2	-268.7	-721.6	1322.1	-1695.1	-5533.0
330.	-2232.7	-11.5	-278.4	-965.4	73509.0	-19696.3
	-2147.9	42.9	-185.7	-1445.6	64335.6	-13321.3
	-2415.7	-128.9	-478.4	68.3	93294.1	-33465.5
	-2330.9	-74.5	-385.7	-411.8	84120.7	-27090.5
	-2371.2	-100.1	-429.8	-179.2	88490.0	-30093.7
	-2286.3	-45.8	-337.1	-659.4	79316.6	-23718.7
	-2554.2	-217.6	-629.8	854.6	108275.1	-43862.9
	-2469.3	-163.2	-537.1	374.4	99101.7	-37487.9
	-2400.5	-117.0	-462.9	-17.7	91769.1	-32074.9
	-2315.7	-62.6	-370.2	-497.9	82595.8	-25699.9
	-2583.5	-234.4	-662.9	1016.1	111554.2	-45844.1
	-2498.7	-180.0	-570.2	535.9	102380.9	-39469.1
	-2539.0	-205.6	-614.3	768.5	106750.1	-42472.3
	-2454.2	-151.3	-521.6	288.4	97576.8	-36097.3
	-2722.0	-323.1	-814.3	1802.3	126535.2	-56241.5
	-2637.2	-268.7	-721.6	1322.1	117361.9	-49866.5
Asta	153	nod	5	137		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-11183.0	-47.3	320.3	-1095.7	40955.9	-3401.6
	-11141.6	59.0	467.6	-1640.8	68655.6	-20648.5
	-11271.9	-276.8	2.7	77.9	-18790.1	33859.8
	-11230.6	-170.6	149.9	-467.1	8909.6	16612.9
	-11250.7	-220.5	79.8	-203.6	-4280.1	24716.3
	-11209.3	-114.3	227.1	-748.6	23419.7	7469.5
	-11339.6	-450.1	-237.8	970.1	-64026.1	61977.7
	-11298.3	-343.8	-90.5	425.1	-36326.3	44730.9
	-11267.5	-253.9	27.8	-19.9	-14085.0	30115.4
	-11226.2	-147.6	175.0	-564.9	13614.7	12868.5
	-11356.5	-483.5	-289.8	1153.8	-73831.0	67376.8
	-11315.1	-377.2	-142.6	608.7	-46131.3	50129.9
	-11335.2	-427.2	-212.7	872.3	-59321.0	58233.3
	-11293.9	-320.9	-65.4	327.2	-31621.2	40986.5
	-11424.2	-656.7	-530.3	2045.9	-119067.0	95494.7
	-11382.8	-550.5	-383.0	1500.9	-91367.2	78247.9
165.	-10688.0	-47.3	320.3	-1095.7	-11893.5	-11199.5
	-10646.6	59.0	467.6	-1640.8	-8490.2	-10912.7
	-10776.9	-276.8	2.7	77.9	-19233.7	-11817.3
	-10735.6	-170.6	149.9	-467.1	-15830.4	-11530.6
	-10755.7	-220.5	79.8	-203.6	-17451.5	-11668.5
	-10714.3	-114.3	227.1	-748.6	-14048.2	-11381.7
	-10844.6	-450.1	-237.8	970.1	-24791.8	-12286.3
	-10803.3	-343.8	-90.5	425.1	-21388.5	-11999.5
	-10772.5	-253.9	27.8	-19.9	-18670.9	-11778.5
	-10731.2	-147.6	175.0	-564.9	-15267.6	-11491.7
	-10861.5	-483.5	-289.8	1153.8	-26011.1	-12396.3
	-10820.1	-377.2	-142.6	608.7	-22607.8	-12109.5
	-10840.2	-427.2	-212.7	872.3	-24228.9	-12247.5
	-10798.9	-320.9	-65.4	327.2	-20825.6	-11960.7
	-10929.2	-656.7	-530.3	2045.9	-31569.1	-12865.3
	-10887.8	-550.5	-383.0	1500.9	-28165.9	-12578.5
330.	-10193.0	-47.3	320.3	-1095.7	-64742.8	-18997.7
	-10151.6	59.0	467.6	-1640.8	-85636.0	-1177.2
	-10281.9	-276.8	2.7	77.9	-19677.2	-57494.7
	-10240.6	-170.6	149.9	-467.1	-40570.4	-39674.3
	-10260.7	-220.5	79.8	-203.6	-30623.0	-48053.6
	-10219.3	-114.3	227.1	-748.6	-51516.2	-30233.2
	-10349.6	-450.1	-237.8	970.1	14442.5	-86550.6
	-10308.3	-343.8	-90.5	425.1	-6450.6	-68730.2
	-10277.5	-253.9	27.8	-19.9	-23256.6	-53672.2
	-10236.2	-147.6	175.0	-564.9	-44149.8	-35851.7
	-10366.5	-483.5	-289.8	1153.8	21808.9	-92169.2
	-10325.1	-377.2	-142.6	608.7	915.8	-74348.8
	-10345.2	-427.2	-212.7	872.3	10863.1	-82728.1
	-10303.9	-320.9	-65.4	327.2	-10030.0	-64907.7
	-10434.2	-656.7	-530.3	2045.9	55928.7	-121225.1
	-10392.8	-550.5	-383.0	1500.9	35035.5	-103404.7
Asta	155	nod	33	140		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-8461.2	38.6	782.1	-1088.7	109657.4	-21774.7
	-8358.0	107.4	1037.8	-1630.6	152637.7	-33305.1
	-8683.6	-110.1	230.6	78.1	16958.4	3146.8
	-8580.4	-41.3	486.3	-463.8	59938.8	-8383.7
	-8629.9	-73.5	364.4	-201.7	39457.0	-2987.5
	-8526.7	-4.7	620.1	-743.6	82437.3	-14517.9
	-8852.2	-222.2	-187.1	965.1	-53242.0	21934.0
	-8749.0	-153.4	68.6	423.2	-10261.6	10403.5
	-8667.7	-95.0	274.7	-20.8	24358.7	590.4
	-8564.5	-26.2	530.3	-562.7	67339.1	-10940.1
	-8890.1	-243.7	-276.8	1146.1	-68340.2	25511.8
	-8786.9	-174.9	-21.1	604.2	-25359.9	13981.4

	-8836.4	-207.1	-143.0	866.2	-45841.7	19377.6
	-8733.2	-138.3	112.7	324.3	-2861.3	7847.1
	-9058.7	-355.8	-694.5	2033.1	-138540.6	44299.0
	-8955.5	-287.0	-438.8	1491.2	-95560.3	32768.6
165.	-7966.2	38.6	782.1	-1088.7	-19381.7	-15412.3
	-7863.0	107.4	1037.8	-1630.6	-18591.1	-15591.2
	-8188.6	-110.1	230.6	78.1	-21086.1	-15022.9
	-8085.4	-41.3	486.3	-463.8	-20295.5	-15201.8
	-8134.9	-73.5	364.4	-201.7	-20673.5	-15122.8
	-8031.7	-4.7	620.1	-743.6	-19882.9	-15301.8
	-8357.2	-222.2	-187.1	965.1	-22378.0	-14733.5
	-8254.0	-153.4	68.6	423.2	-21587.4	-14912.4
	-8172.7	-95.0	274.7	-20.8	-20959.0	-15087.8
	-8069.5	-26.2	530.3	-562.7	-20168.4	-15266.8
	-8395.1	-243.7	-276.8	1146.1	-22663.5	-14698.4
	-8291.9	-174.9	-21.1	604.2	-21872.9	-14877.4
	-8341.4	-207.1	-143.0	866.2	-22250.9	-14798.4
	-8238.2	-138.3	112.7	324.3	-21460.3	-14977.4
	-8563.7	-355.8	-694.5	2033.1	-23955.3	-14409.0
330.	-8460.5	-287.0	-438.8	1491.2	-23164.7	-14588.0
	-7471.2	38.6	782.1	-1088.7	-148420.7	-9049.3
	-7368.0	107.4	1037.8	-1630.6	-189819.9	2123.2
	-7693.6	-110.1	230.6	78.1	-59130.7	-33192.0
	-7590.4	-41.3	486.3	-463.8	-100529.9	-22019.5
	-7639.9	-73.5	364.4	-201.7	-80804.0	-27257.7
	-7536.7	-4.7	620.1	-743.6	-122203.2	-16085.2
	-7862.2	-222.2	-187.1	965.1	8486.0	-51400.4
	-7759.0	-153.4	68.6	423.2	-32913.2	-40227.9
	-7677.7	-95.0	274.7	-20.8	-66276.8	-30766.5
	-7574.5	-26.2	530.3	-562.7	-107676.0	-19594.0
	-7900.1	-243.7	-276.8	1146.1	23013.3	-54909.2
	-7796.9	-174.9	-21.1	604.2	-18385.9	-43736.7
	-7846.4	-207.1	-143.0	866.2	1339.9	-48974.9
	-7743.2	-138.3	112.7	324.3	-40059.3	-37802.3
	-8068.7	-355.8	-694.5	2033.1	90630.0	-73117.6
	-7965.5	-287.0	-438.8	1491.2	49230.8	-61945.1
Asta	156	nod	30	141		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4318.3	202.6	-675.0	-914.1	-39881.5	-31753.7
	-4301.3	255.2	-558.0	-1368.8	-10990.7	-43450.4
	-4354.7	89.2	-927.3	65.0	-102180.5	-6491.8
	-4337.8	141.8	-810.3	-389.7	-73289.7	-18188.6
	-4346.0	117.0	-866.2	-169.6	-87078.2	-12676.5
	-4329.1	169.5	-749.1	-624.3	-58187.5	-24373.3
	-4382.5	3.6	-1118.5	809.5	-149377.3	12585.3
	-4365.5	56.1	-1001.5	354.8	-120486.5	888.6
	-4352.7	100.6	-907.0	-17.0	-97175.5	-9032.7
	-4335.8	153.2	-790.0	-471.7	-68284.7	-20729.4
	-4389.2	-12.8	-1159.3	962.1	-159474.5	16229.2
	-4372.2	39.8	-1042.3	507.4	-130583.7	4532.4
	-4380.5	15.0	-1098.2	727.5	-144372.2	10044.5
	-4363.5	67.5	-981.2	272.7	-115481.5	-1652.3
	-4416.9	-98.4	-1350.5	1706.6	-206671.3	35306.3
	-4400.0	-45.9	-1233.5	1251.9	-177780.5	23609.6
165.	-3823.3	202.6	-675.0	-914.1	71493.9	1683.0
	-3806.3	255.2	-558.0	-1368.8	81078.2	-1350.0
	-3859.7	89.2	-927.3	65.0	50826.4	8233.7
	-3842.8	141.8	-810.3	-389.7	60410.8	5200.7
	-3851.0	117.0	-866.2	-169.6	55836.7	6629.4
	-3834.1	169.5	-749.1	-624.3	65421.0	3596.4
	-3887.5	3.6	-1118.5	809.5	35169.2	13180.1
	-3870.5	56.1	-1001.5	354.8	44753.6	10147.1
	-3857.7	100.6	-907.0	-17.0	52483.8	7573.7
	-3840.8	153.2	-790.0	-471.7	62068.2	4540.7
	-3894.2	-12.8	-1159.3	962.1	31816.3	14124.3
	-3877.2	39.8	-1042.3	507.4	41400.7	11091.4
	-3885.5	15.0	-1098.2	727.5	36826.6	12520.0
	-3868.5	67.5	-981.2	272.7	46411.0	9487.0
	-3921.9	-98.4	-1350.5	1706.6	16159.1	19070.7
	-3905.0	-45.9	-1233.5	1251.9	25743.5	16037.7
330.	-3328.3	202.6	-675.0	-914.1	182869.2	35119.7
	-3311.3	255.2	-558.0	-1368.8	173147.1	40750.5
	-3364.7	89.2	-927.3	65.0	203833.3	22959.2
	-3347.8	141.8	-810.3	-389.7	194111.3	28590.0
	-3356.0	117.0	-866.2	-169.6	198751.5	25935.3
	-3339.1	169.5	-749.1	-624.3	189029.5	31566.1
	-3392.5	3.6	-1118.5	809.5	219715.7	13774.8
	-3375.5	56.1	-1001.5	354.8	209993.6	19405.6
	-3362.7	100.6	-907.0	-17.0	202143.0	24180.0
	-3345.8	153.2	-790.0	-471.7	192421.0	29810.8
	-3399.2	-12.8	-1159.3	962.1	223107.1	12019.5
	-3382.2	39.8	-1042.3	507.4	213385.1	17650.3
	-3390.5	15.0	-1098.2	727.5	218025.4	14995.5
	-3373.5	67.5	-981.2	272.7	208303.4	20626.3
	-3426.9	-98.4	-1350.5	1706.6	238989.5	2835.1
	-3410.0	-45.9	-1233.5	1251.9	229267.5	8465.9
Asta	157	nod	44	142		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4294.4	-0.5	-808.0	-918.4	-68870.5	-15974.0

	-4260.2	53.9	-772.5	-1375.0	-59932.6	-28064.3
	-4368.0	-118.0	-884.8	64.8	-88185.8	10134.6
	-4333.9	-63.6	-849.3	-391.9	-79247.8	-1955.6
	-4350.0	-89.3	-865.9	-170.6	-83428.8	3756.8
	-4315.9	-34.9	-830.3	-627.3	-74490.8	-8333.4
	-4423.7	-206.8	-942.6	812.5	-102744.0	29865.5
	-4389.6	-152.4	-907.1	355.8	-93806.1	17775.2
	-4361.5	-106.3	-879.4	-17.2	-86841.2	7540.6
	-4327.4	-51.9	-843.9	-473.8	-77903.2	-4549.6
	-4435.2	-223.8	-956.2	965.9	-106156.4	33649.2
	-4401.1	-169.4	-920.7	509.3	-97218.4	21559.0
	-4417.1	-195.1	-937.3	730.5	-101399.4	27271.5
	-4383.0	-140.7	-901.8	273.9	-92461.5	15181.2
	-4490.8	-312.6	-1014.0	1713.7	-120714.7	53380.1
	-4456.7	-258.2	-978.5	1257.0	-111776.7	41289.9
165.	-3799.4	-0.5	-808.0	-918.4	64452.9	-16059.3
	-3765.2	53.9	-772.5	-1375.0	67531.4	-19171.9
	-3873.0	-118.0	-884.8	64.8	57800.6	-9337.6
	-3838.9	-63.6	-849.3	-391.9	60879.2	-12450.1
	-3855.0	-89.3	-865.9	-170.6	59438.2	-10979.7
	-3820.9	-34.9	-830.3	-627.3	62516.7	-14092.2
	-3928.7	-206.8	-942.6	812.5	52785.9	-4257.9
	-3894.6	-152.4	-907.1	355.8	55864.5	-7370.5
	-3866.5	-106.3	-879.4	-17.2	58266.9	-10006.3
	-3832.4	-51.9	-843.9	-473.8	61345.4	-13118.9
	-3940.2	-223.8	-956.2	965.9	51614.7	-3284.6
	-3906.1	-169.4	-920.7	509.3	54693.2	-6397.2
	-3922.1	-195.1	-937.3	730.5	53252.2	-4926.7
	-3888.0	-140.7	-901.8	273.9	56330.7	-8039.3
	-3995.8	-312.6	-1014.0	1713.7	46600.0	1795.1
330.	-3961.7	-258.2	-978.5	1257.0	49678.5	-1317.5
	-3304.4	-0.5	-808.0	-918.4	197776.3	-16144.6
	-3270.2	53.9	-772.5	-1375.0	194995.3	-10279.5
	-3378.0	-118.0	-884.8	64.8	203787.1	-28809.8
	-3343.9	-63.6	-849.3	-391.9	201006.1	-22944.7
	-3360.0	-89.3	-865.9	-170.6	202305.2	-25716.2
	-3325.9	-34.9	-830.3	-627.3	199524.2	-19851.1
	-3433.7	-206.8	-942.6	812.5	208315.9	-38381.3
	-3399.6	-152.4	-907.1	355.8	205535.0	-32516.2
	-3371.5	-106.3	-879.4	-17.2	203375.0	-27553.3
	-3337.4	-51.9	-843.9	-473.8	200594.1	-21688.2
	-3445.2	-223.8	-956.2	965.9	209385.8	-40218.4
	-3411.1	-169.4	-920.7	509.3	206604.9	-34353.3
	-3427.1	-195.1	-937.3	730.5	207903.9	-37124.9
	-3393.0	-140.7	-901.8	273.9	205122.9	-31259.7
	-3500.8	-312.6	-1014.0	1713.7	213914.7	-49790.0
	-3466.7	-258.2	-978.5	1257.0	211133.7	-43924.9
Asta	158	nodì	46	143		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2421.8	152.6	32.2	-631.9	-735.5	-27855.6
	-2495.1	184.7	70.3	-946.5	6477.4	-34313.3
	-2263.4	83.2	-50.2	45.5	-16301.9	-13890.6
	-2336.7	115.3	-12.1	-269.0	-9089.0	-20348.4
	-2302.3	100.3	-30.1	-117.4	-12506.8	-17334.5
	-2375.5	132.4	8.0	-431.9	-5293.9	-23792.2
	-2143.9	30.9	-112.5	560.0	-28073.2	-3369.6
	-2217.2	63.0	-74.4	245.5	-20860.3	-9827.3
	-2277.9	90.9	-44.1	-11.3	-15132.9	-15406.2
	-2351.2	123.0	-5.9	-325.8	-7919.9	-21864.0
	-2119.6	21.5	-126.4	666.1	-30699.3	-1441.3
	-2192.9	53.6	-88.3	351.6	-23486.4	-7899.1
	-2158.4	38.6	-106.4	503.3	-26904.2	-4885.2
	-2231.7	70.7	-68.2	188.7	-19691.3	-11342.9
	-2000.1	-30.8	-188.7	1180.7	-42470.6	9079.7
	-2073.4	1.3	-150.6	866.2	-35257.7	2622.0
165.	-2050.5	152.6	32.2	-631.9	-6041.3	-2676.6
	-2123.8	184.7	70.3	-946.5	-5127.1	-3840.2
	-1892.2	83.2	-50.2	45.5	-8014.9	-161.8
	-1965.5	115.3	-12.1	-269.0	-7100.6	-1325.4
	-1931.0	100.3	-30.1	-117.4	-7533.2	-779.8
	-2004.3	132.4	8.0	-431.9	-6618.9	-1943.5
	-1772.7	30.9	-112.5	560.0	-9506.7	1735.0
	-1846.0	63.0	-74.4	245.5	-8592.4	571.3
	-1906.7	90.9	-44.1	-11.3	-7862.4	-410.0
	-1980.0	123.0	-5.9	-325.8	-6948.1	-1573.6
	-1748.3	21.5	-126.4	666.1	-9835.9	2104.8
	-1821.6	53.6	-88.3	351.6	-8921.6	941.2
	-1787.2	38.6	-106.4	503.3	-9354.2	1486.7
	-1860.4	70.7	-68.2	188.7	-8439.9	323.1
	-1628.8	-30.8	-188.7	1180.7	-11327.7	4001.5
	-1702.1	1.3	-150.6	866.2	-10413.4	2837.9
330.	-1679.3	152.6	32.2	-631.9	-11347.2	22502.6
	-1752.6	184.7	70.3	-946.5	-16731.6	26633.0
	-1520.9	83.2	-50.2	45.5	272.2	13567.2
	-1594.2	115.3	-12.1	-269.0	-5112.2	17697.7
	-1559.8	100.3	-30.1	-117.4	-2559.5	15774.9
	-1633.0	132.4	8.0	-431.9	-7943.9	19905.4
	-1401.4	30.9	-112.5	560.0	9059.9	6839.6
	-1474.7	63.0	-74.4	245.5	3675.5	10970.1
	-1535.4	90.9	-44.1	-11.3	-591.9	14586.1

		-1608.7	123.0	-5.9	-325.8	-5976.2	18716.6
		-1377.1	21.5	-126.4	666.1	11027.5	5650.8
		-1450.4	53.6	-88.3	351.6	5643.2	9781.3
		-1415.9	38.6	-106.4	503.3	8195.8	7858.5
		-1489.2	70.7	-68.2	188.7	2811.5	11989.0
		-1257.6	-30.8	-188.7	1180.7	19815.2	-1076.8
		-1330.9	1.3	-150.6	866.2	14430.9	3053.7
Asta	159	nod	6	144			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-2062.0	80.3	135.6	-631.1	15317.2	-13207.5	
	-2068.1	129.0	196.9	-945.0	26737.7	-21656.2	
	-2049.1	-24.9	3.6	44.8	-9317.4	5053.8	
	-2055.2	23.8	64.8	-269.1	2103.1	-3394.9	
	-2051.9	1.0	35.6	-117.5	-3332.1	559.5	
	-2058.0	49.7	96.9	-431.4	8088.4	-7889.3	
	-2039.0	-104.2	-96.4	558.4	-27966.7	18820.8	
	-2045.0	-55.5	-35.2	244.5	-16546.2	10372.0	
	-2047.5	-14.3	14.0	-11.1	-7368.8	3189.7	
	-2053.6	34.4	75.3	-325.0	4051.6	-5259.1	
	-2034.6	-119.5	-118.1	664.8	-32003.4	21451.0	
	-2040.7	-70.8	-56.8	350.9	-20583.0	13002.2	
	-2037.4	-93.6	-86.0	502.5	-26018.1	16956.6	
	-2043.5	-45.0	-24.7	188.6	-14597.7	8507.8	
	-2024.5	-198.8	-218.1	1178.4	-50652.7	35217.9	
	-2030.5	-150.2	-156.8	864.5	-39232.3	26769.2	
165.	-1690.8	80.3	135.6	-631.1	-7063.4	49.6	
	-1696.8	129.0	196.9	-945.0	-5746.7	-366.6	
	-1677.8	-24.9	3.6	44.8	-9903.2	951.5	
	-1683.9	23.8	64.8	-269.1	-8586.5	535.3	
	-1680.6	1.0	35.6	-117.5	-9214.0	725.6	
	-1686.7	49.7	96.9	-431.4	-7897.3	309.5	
	-1667.7	-104.2	-96.4	558.4	-12053.8	1627.5	
	-1673.8	-55.5	-35.2	244.5	-10737.1	1211.4	
	-1676.2	-14.3	14.0	-11.1	-9682.6	830.9	
	-1682.3	34.4	75.3	-325.0	-8365.9	414.8	
	-1663.3	-119.5	-118.1	664.8	-12522.4	1732.8	
	-1669.4	-70.8	-56.8	350.9	-11205.7	1316.7	
	-1666.1	-93.6	-86.0	502.5	-11833.2	1507.0	
	-1672.2	-45.0	-24.7	188.6	-10516.5	1090.8	
	-1653.2	-198.8	-218.1	1178.4	-14673.0	2408.9	
	-1659.3	-150.2	-156.8	864.5	-13356.3	1992.7	
330.	-1319.5	80.3	135.6	-631.1	-29444.1	13306.9	
	-1325.6	129.0	196.9	-945.0	-38231.1	20923.4	
	-1306.6	-24.9	3.6	44.8	-10489.1	-3150.6	
	-1312.7	23.8	64.8	-269.1	-19276.1	4465.9	
	-1309.4	1.0	35.6	-117.5	-15096.0	892.1	
	-1315.5	49.7	96.9	-431.4	-23883.0	8508.6	
	-1296.5	-104.2	-96.4	558.4	3859.1	-15565.4	
	-1302.5	-55.5	-35.2	244.5	-4928.0	-7948.9	
	-1305.0	-14.3	14.0	-11.1	-11996.5	-1528.2	
	-1311.1	34.4	75.3	-325.0	-20783.5	6088.3	
	-1292.1	-119.5	-118.1	664.8	6958.5	-17985.7	
	-1298.2	-70.8	-56.8	350.9	-1828.5	-10369.2	
	-1294.9	-93.6	-86.0	502.5	2351.7	-13943.0	
	-1301.0	-45.0	-24.7	188.6	-6435.3	-6326.5	
	-1282.0	-198.8	-218.1	1178.4	21306.7	-30400.5	
	-1288.0	-150.2	-156.8	864.5	12519.7	-22784.0	
Asta	160	nod	28	145			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-4887.8	1186.6	5.9	-1148.2	23020.2	-174376.8	
	-4917.5	1296.1	58.8	-1719.8	35760.6	-199647.2	
	-4823.6	950.2	-107.9	82.5	-4389.2	-119847.5	
	-4853.3	1059.7	-55.0	-489.1	8351.3	-145117.9	
	-4839.5	1007.8	-80.7	-212.9	2152.4	-133127.0	
	-4869.2	1117.3	-27.8	-784.5	14892.9	-158397.3	
	-4775.2	771.4	-194.5	1017.8	-25256.9	-78597.7	
	-4804.9	880.9	-141.6	446.1	-12516.4	-103868.1	
	-4830.4	970.8	-100.7	-23.2	-2635.5	-124601.9	
	-4860.1	1080.4	-47.8	-594.8	10105.0	-149872.3	
	-4766.1	734.5	-214.5	1207.5	-30044.8	-70072.7	
	-4795.8	844.0	-161.6	635.9	-17304.4	-95343.0	
	-4782.1	792.0	-187.3	912.1	-23503.3	-83352.1	
	-4811.8	901.6	-134.5	340.5	-10762.8	-108622.4	
	-4717.8	555.7	-301.1	2142.8	-50912.6	-28822.8	
	-4747.5	665.2	-248.2	1571.2	-38172.1	-54093.2	
165.	-4369.4	1186.6	5.9	-1148.2	22044.6	21408.7	
	-4399.1	1296.1	58.8	-1719.8	26057.8	14212.8	
	-4305.2	950.2	-107.9	82.5	13407.8	36935.6	
	-4334.9	1059.7	-55.0	-489.1	17421.1	29739.7	
	-4321.1	1007.8	-80.7	-212.9	15473.5	33155.3	
	-4350.8	1117.3	-27.8	-784.5	19486.8	25959.4	
	-4256.9	771.4	-194.5	1017.8	6836.7	48682.3	
	-4286.6	880.9	-141.6	446.1	10850.0	41486.4	
	-4312.0	970.8	-100.7	-23.2	13979.9	35588.1	
	-4341.7	1080.4	-47.8	-594.8	17993.2	28392.2	
	-4247.8	734.5	-214.5	1207.5	5343.1	51115.1	
	-4277.5	844.0	-161.6	635.9	9356.4	43919.2	
	-4263.7	792.0	-187.3	912.1	7408.8	47334.8	
	-4293.4	901.6	-134.5	340.5	11422.1	40138.9	

330.	-4199.4	555.7	-301.1	2142.8	-1227.9	62861.7
	-4229.1	665.2	-248.2	1571.2	2785.3	55665.8
	-3851.1	1186.6	5.9	-1148.2	21068.9	217194.1
	-3880.8	1296.1	58.8	-1719.8	16355.0	228072.7
	-3786.8	950.2	-107.9	82.5	31204.7	193718.7
	-3816.5	1059.7	-55.0	-489.1	26490.8	204597.3
	-3802.7	1007.8	-80.7	-212.9	28794.6	199437.6
	-3832.4	1117.3	-27.8	-784.5	24080.7	210316.2
	-3738.5	771.4	-194.5	1017.8	38930.4	175962.3
	-3768.2	880.9	-141.6	446.1	34216.4	186840.8
	-3793.7	970.8	-100.7	-23.2	30595.3	195778.1
	-3823.4	1080.4	-47.8	-594.8	25881.4	206656.7
	-3729.4	734.5	-214.5	1207.5	40731.1	172302.8
	-3759.1	844.0	-161.6	635.9	36017.1	183181.3
	-3745.3	792.0	-187.3	912.1	38320.9	178021.7
	-3775.0	901.6	-134.5	340.5	33607.0	188900.2
	-3681.1	555.7	-301.1	2142.8	48456.7	154546.3
	-3710.8	665.2	-248.2	1571.2	43742.8	165424.8
Asta PROGR. 0.	169	nod	19	154		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-2382.3	257.5	78.1	-1347.5	13667.8	-47363.0
	-2625.8	310.5	137.6	-2022.8	25700.3	-58107.9
	-1856.8	142.9	-49.7	104.8	-12191.9	-24120.6
	-2100.3	195.9	9.8	-570.5	-159.4	-34865.5
	-1984.6	171.3	-19.4	-247.1	-6051.7	-29864.8
	-2228.2	224.2	40.1	-922.4	5980.8	-40609.6
	-1459.1	56.6	-147.2	1205.2	-31911.4	-6622.3
	-1702.7	109.6	-87.8	529.9	-19878.9	-17367.2
	-1899.1	154.0	-42.4	-28.3	-10676.7	-26353.0
	-2142.6	207.0	17.1	-703.6	1355.8	-37097.9
	-1373.6	39.4	-170.2	1424.0	-36536.4	-3110.6
	-1617.2	92.4	-110.7	748.7	-24503.9	-13855.5
	-1501.4	67.8	-139.9	1072.1	-30396.2	-8854.7
	-1745.0	120.8	-80.4	396.8	-18363.7	-19599.6
	-976.0	-46.9	-267.7	2524.3	-56255.9	14387.7
	-1219.5	6.1	-208.3	1849.0	-44223.4	3642.8
	-1863.9	257.5	78.1	-1347.5	781.1	-4871.9
	-2107.4	310.5	137.6	-2022.8	2997.4	-6873.6
	-1338.4	142.9	-49.7	104.8	-3986.8	-546.4
	-1582.0	195.9	9.8	-570.5	-1770.5	-2548.2
	-1466.2	171.3	-19.4	-247.1	-2847.6	-1608.5
	-1709.8	224.2	40.1	-922.4	-631.3	-3610.3
	-940.8	56.6	-147.2	1205.2	-7615.5	2716.9
165.	-1184.3	109.6	-87.8	529.9	-5399.2	715.2
	-1380.7	154.0	-42.4	-28.3	-3680.9	-934.9
	-1624.3	207.0	17.1	-703.6	-1464.6	-2936.7
	-855.2	39.4	-170.2	1424.0	-8448.8	3390.5
	-1098.8	92.4	-110.7	748.7	-6232.5	1388.8
	-983.1	67.8	-139.9	1072.1	-7309.6	2328.5
	-1226.6	120.8	-80.4	396.8	-5093.3	326.7
	-457.6	-46.9	-267.7	2524.3	-12077.5	6653.9
	-701.1	6.1	-208.3	1849.0	-9861.3	4652.1
	-1345.5	257.5	78.1	-1347.5	-12105.6	37619.4
	-1589.1	310.5	137.6	-2022.8	-19705.5	44360.7
	-820.1	142.9	-49.7	104.8	4218.2	23027.8
	-1063.6	195.9	9.8	-570.5	-3381.7	29769.2
	-947.9	171.3	-19.4	-247.1	356.5	26647.8
	-1191.4	224.2	40.1	-922.4	-7243.4	33389.1
	-422.4	56.6	-147.2	1205.2	16680.4	12056.3
	-666.0	109.6	-87.8	529.9	9080.5	18797.6
	-862.4	154.0	-42.4	-28.3	3314.9	24483.1
	-1105.9	207.0	17.1	-703.6	-4285.0	31224.5
	-336.9	39.4	-170.2	1424.0	19638.7	9891.6
	-580.4	92.4	-110.7	748.7	12038.8	16633.0
	-464.7	67.8	-139.9	1072.1	15777.0	13511.6
	-708.3	120.8	-80.4	396.8	8177.1	20252.9
	60.8	-46.9	-267.7	2524.3	32100.9	-1080.0
	-182.8	6.1	-208.3	1849.0	24501.0	5661.4
Asta PROGR. 0.	170	nod	2	155		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-6036.7	94.0	34.1	0.0	11257.4	-31012.4
	-6036.7	136.6	52.1	0.0	17202.4	-45085.1
	-6036.7	1.9	-4.6	0.0	-1534.2	-616.4
	-6036.7	44.5	13.4	0.0	4410.8	-14689.0
	-6036.7	24.4	4.6	0.0	1522.6	-8061.9
	-6036.7	67.1	22.6	0.0	7467.6	-22134.5
	-6036.7	-67.7	-34.1	0.0	-11269.0	22334.2
	-6036.7	-25.0	-16.1	0.0	-5324.0	8261.5
	-6036.7	10.0	-2.7	0.0	-878.5	-3299.6
	-6036.7	52.6	15.4	0.0	5066.5	-17372.3
	-6036.7	-82.1	-41.4	0.0	-13670.1	27096.5
	-6036.7	-39.5	-23.4	0.0	-7725.1	13023.8
	-6036.7	-59.5	-32.2	0.0	-10613.3	19651.0
	-6036.7	-16.9	-14.1	0.0	-4668.3	5578.3
	-6036.7	-151.7	-70.9	0.0	-23404.9	50047.0
	-6036.7	-109.0	-52.9	0.0	-17459.9	35974.4
	-5518.4	94.0	34.1	0.0	5628.7	-15506.2
	-5518.4	136.6	52.1	0.0	8601.2	-22542.5
	-5518.4	1.9	-4.6	0.0	-767.1	-308.2

	-5518.4	44.5	13.4	0.0	2205.4	-7344.5
	-5518.4	24.4	4.6	0.0	761.3	-4030.9
	-5518.4	67.1	22.6	0.0	3733.8	-11067.3
	-5518.4	-67.7	-34.1	0.0	-5634.5	11167.1
	-5518.4	-25.0	-16.1	0.0	-2662.0	4130.8
	-5518.4	10.0	-2.7	0.0	-439.3	-1649.8
	-5518.4	52.6	15.4	0.0	2533.3	-8686.1
	-5518.4	-82.1	-41.4	0.0	-6835.1	13548.2
	-5518.4	-39.5	-23.4	0.0	-3862.5	6511.9
	-5518.4	-59.5	-32.2	0.0	-5306.7	9825.5
	-5518.4	-16.9	-14.1	0.0	-2334.2	2789.1
	-5518.4	-151.7	-70.9	0.0	-11702.5	25023.5
330.	-5518.4	-109.0	-52.9	0.0	-8730.0	17987.2
	-5000.0	94.0	34.1	0.0	0.0	0.0
	-5000.0	136.6	52.1	0.0	0.0	0.0
	-5000.0	1.9	-4.6	0.0	0.0	0.0
	-5000.0	44.5	13.4	0.0	0.0	0.0
	-5000.0	24.4	4.6	0.0	0.0	0.0
	-5000.0	67.1	22.6	0.0	0.0	0.0
	-5000.0	-67.7	-34.1	0.0	0.0	0.0
	-5000.0	-25.0	-16.1	0.0	0.0	0.0
	-5000.0	10.0	-2.7	0.0	0.0	0.0
	-5000.0	52.6	15.4	0.0	0.0	0.0
	-5000.0	-82.1	-41.4	0.0	0.0	0.0
	-5000.0	-39.5	-23.4	0.0	0.0	0.0
	-5000.0	-59.5	-32.2	0.0	0.0	0.0
	-5000.0	-16.9	-14.1	0.0	0.0	0.0
	-5000.0	-151.7	-70.9	0.0	0.0	0.0
	-5000.0	-109.0	-52.9	0.0	0.0	0.0
Asta	171	nod1	3	156		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-7215.2	255.6	-84.1	-1330.4	-11680.1	-38202.2
	-7219.5	313.7	-52.4	-1991.7	-3272.3	-51277.6
	-7206.3	129.6	-152.0	94.5	-29712.3	-9883.1
	-7210.5	187.7	-120.2	-566.8	-21304.4	-22958.5
	-7208.2	161.2	-136.5	-248.2	-25491.2	-16933.7
	-7212.4	219.3	-104.7	-909.5	-17083.4	-30009.1
	-7199.3	35.2	-204.3	1176.7	-43523.4	11385.4
	-7203.5	93.3	-172.6	515.4	-35115.6	-1690.0
	-7206.5	143.3	-150.8	-23.3	-28995.2	-12735.0
	-7210.7	201.4	-119.1	-684.6	-20587.4	-25810.4
	-7197.5	17.4	-218.7	1401.6	-47027.4	15584.1
	-7201.8	75.4	-186.9	740.3	-38619.5	2508.7
	-7199.5	49.0	-203.2	1058.9	-42806.3	8533.5
	-7203.7	107.1	-171.4	397.6	-34398.5	-4541.9
	-7190.5	-77.0	-271.0	2483.8	-60838.5	36852.6
	-7194.7	-18.9	-239.3	1822.5	-52430.6	23777.2
165.	-6696.9	255.6	-84.1	-1330.4	2205.4	3965.5
	-6701.1	313.7	-52.4	-1991.7	5375.0	474.6
	-6687.9	129.6	-152.0	94.5	-4632.4	11497.6
	-6692.1	187.7	-120.2	-566.8	-1462.9	8006.7
	-6689.8	161.2	-136.5	-248.2	-2970.5	9665.7
	-6694.1	219.3	-104.7	-909.5	199.1	6174.7
	-6680.9	35.2	-204.3	1176.7	-9808.3	17197.8
	-6685.1	93.3	-172.6	515.4	-6638.8	13706.8
	-6688.1	143.3	-150.8	-23.3	-4106.1	10915.5
	-6692.3	201.4	-119.1	-684.6	-936.5	7424.5
	-6679.2	17.4	-218.7	1401.6	-10944.0	18447.6
	-6683.4	75.4	-186.9	740.3	-7774.4	14956.6
	-6681.1	49.0	-203.2	1058.9	-9282.0	16615.6
	-6685.3	107.1	-171.4	397.6	-6112.4	13124.7
	-6672.2	-77.0	-271.0	2483.8	-16119.8	24147.7
	-6676.4	-18.9	-239.3	1822.5	-12950.3	20656.8
330.	-6178.5	255.6	-84.1	-1330.4	16084.0	46135.2
	-6182.7	313.7	-52.4	-1991.7	14015.3	52228.7
	-6169.6	129.6	-152.0	94.5	20442.9	32879.7
	-6173.8	187.7	-120.2	-566.8	18374.1	38973.3
	-6171.5	161.2	-136.5	-248.2	19543.4	36267.1
	-6175.7	219.3	-104.7	-909.5	17474.6	42360.6
	-6162.5	35.2	-204.3	1176.7	23902.2	23011.6
	-6166.8	93.3	-172.6	515.4	21833.5	29105.1
	-6169.8	143.3	-150.8	-23.3	20787.5	34564.5
	-6174.0	201.4	-119.1	-684.6	18718.8	40658.0
	-6160.8	17.4	-218.7	1401.6	25146.4	21309.0
	-6165.0	75.4	-186.9	740.3	23077.6	27402.5
	-6162.7	49.0	-203.2	1058.9	24246.9	24696.3
	-6167.0	107.1	-171.4	397.6	22178.1	30789.9
	-6153.8	-77.0	-271.0	2483.8	28605.7	11440.9
	-6158.0	-18.9	-239.3	1822.5	26537.0	17534.4
Asta	172	nod1	1	157		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-5377.7	332.0	-81.6	-1337.7	-1214.8	-63900.7
	-5409.6	476.7	-130.6	-2003.1	-6004.6	-91301.2
	-5308.8	19.7	24.4	95.2	9173.8	-4730.4
	-5340.7	164.3	-24.6	-570.2	4383.9	-32130.9
	-5325.6	96.1	-1.9	-249.2	6568.2	-19205.7
	-5357.5	240.8	-50.9	-914.5	1778.4	-46606.2
	-5256.7	-216.2	104.2	1183.7	16956.8	39964.6
	-5288.6	-71.6	55.2	518.4	12167.0	12564.1

	-5314.2	49.2	10.9	-23.2	7505.4	-10196.3
	-5346.1	193.8	-38.1	-688.5	2715.6	-37596.8
	-5245.3	-263.2	117.0	1409.7	17894.0	48974.0
	-5277.2	-118.6	68.0	744.4	13104.1	21573.5
	-5262.0	-186.7	90.7	1065.4	15288.4	34498.7
	-5294.0	-42.1	41.7	400.0	10498.6	7098.2
	-5193.1	-499.1	196.8	2498.3	25677.0	93669.0
	-5225.1	-354.4	147.8	1832.9	20887.1	66268.5
165.	-4859.3	332.0	-81.6	-1337.7	12261.5	-9115.9
	-4891.3	476.7	-130.6	-2003.1	15556.7	-12652.7
	-4790.4	19.7	24.4	95.2	5152.3	-1485.2
	-4822.4	164.3	-24.6	-570.2	8447.5	-5022.0
	-4807.2	96.1	-1.9	-249.2	6881.8	-3342.1
	-4839.1	240.8	-50.9	-914.5	10177.1	-6878.9
	-4738.3	-216.2	104.2	1183.7	-227.4	4288.6
	-4770.2	-71.6	55.2	518.4	3067.9	751.9
	-4795.8	49.2	10.9	-23.2	5696.7	-2081.6
	-4827.7	193.8	-38.1	-688.5	8991.9	-5618.3
	-4726.9	-263.2	117.0	1409.7	-1412.5	5549.1
	-4758.8	-118.6	68.0	744.4	1882.7	2012.4
	-4743.7	-186.7	90.7	1065.4	317.0	3692.3
	-4775.6	-42.1	41.7	400.0	3612.2	155.5
	-4674.8	-499.1	196.8	2498.3	-6792.2	11323.0
330.	-4706.7	-354.4	147.8	1832.9	-3497.0	7786.2
	-4341.0	332.0	-81.6	-1337.7	25730.4	45669.5
	-4372.9	476.7	-130.6	-2003.1	37110.7	65996.4
	-4272.1	19.7	24.4	95.2	1123.7	1760.6
	-4304.0	164.3	-24.6	-570.2	12504.0	22087.5
	-4288.8	96.1	-1.9	-249.2	7188.1	12522.2
	-4320.8	240.8	-50.9	-914.5	18568.4	32849.1
	-4219.9	-216.2	104.2	1183.7	-17418.7	-31386.7
	-4251.9	-71.6	55.2	518.4	-6038.4	-11059.8
	-4277.5	49.2	10.9	-23.2	3895.2	6032.6
	-4309.4	193.8	-38.1	-688.5	15275.5	26359.5
	-4208.5	-263.2	117.0	1409.7	-20711.6	-37876.3
	-4240.5	-118.6	68.0	744.4	-9331.3	-17549.4
	-4225.3	-186.7	90.7	1065.4	-14647.2	-27114.8
	-4257.2	-42.1	41.7	400.0	-3266.9	-6787.8
	-4156.4	-499.1	196.8	2498.3	-39254.0	-71023.7
	-4188.3	-354.4	147.8	1832.9	-27873.7	-50696.7
Asta	173	nod1	80	158		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-11039.5	-2186.2	-223.0	-1293.8	-45911.8	154120.6
	-11020.9	-2140.9	-272.0	-1939.9	-55479.7	146188.1
	-11079.6	-2284.4	-117.4	100.4	-25288.8	171296.9
	-11061.1	-2239.1	-166.4	-545.7	-34856.6	163364.3
	-11069.7	-2260.0	-142.8	-240.2	-30233.6	167030.2
	-11051.1	-2214.7	-191.7	-886.4	-39801.4	159097.7
	-11109.9	-2358.2	-37.2	1154.0	-9610.6	184206.5
	-11091.3	-2312.9	-86.2	507.9	-19178.4	176273.9
	-11075.7	-2275.2	-129.5	-25.0	-27647.5	169676.0
	-11057.2	-2229.8	-178.5	-671.1	-37215.3	161743.4
	-11115.9	-2373.3	-23.9	1369.3	-7024.5	186852.2
	-11097.4	-2328.0	-72.9	723.1	-16592.3	178919.6
	-11105.9	-2349.0	-49.2	1028.6	-11969.3	182585.6
	-11087.4	-2303.6	-98.2	382.5	-21537.1	174653.0
	-11146.1	-2447.1	56.4	2422.9	8653.7	199761.8
	-11127.6	-2401.8	7.4	1776.7	-914.1	191829.2
165.	-10521.1	-2186.2	-223.0	-1293.8	-9110.7	-206610.5
	-10502.5	-2140.9	-272.0	-1939.9	-10595.0	-207062.4
	-10561.3	-2284.4	-117.4	100.4	-5910.9	-205634.0
	-10542.7	-2239.1	-166.4	-545.7	-7395.2	-206085.9
	-10551.3	-2260.0	-142.8	-240.2	-6678.6	-205875.2
	-10532.7	-2214.7	-191.7	-886.4	-8162.9	-206327.2
	-10591.5	-2358.2	-37.2	1154.0	-3478.8	-204898.7
	-10572.9	-2312.9	-86.2	507.9	-4963.1	-205350.6
	-10557.4	-2275.2	-129.5	-25.0	-6281.6	-205726.7
	-10538.8	-2229.8	-178.5	-671.1	-7766.0	-206178.6
	-10597.6	-2373.3	-23.9	1369.3	-3081.8	-204750.1
	-10579.0	-2328.0	-72.9	723.1	-4566.2	-205202.0
	-10587.6	-2349.0	-49.2	1028.6	-3849.5	-204991.4
	-10569.0	-2303.6	-98.2	382.5	-5333.9	-205443.3
	-10627.8	-2447.1	56.4	2422.9	-649.7	-204014.8
	-10609.2	-2401.8	7.4	1776.7	-2134.1	-204466.8
330.	-10002.7	-2186.2	-223.0	-1293.8	27690.4	-567341.7
	-9984.2	-2140.9	-272.0	-1939.9	34289.6	-560312.9
	-10042.9	-2284.4	-117.4	100.4	13467.0	-582564.9
	-10024.4	-2239.1	-166.4	-545.7	20066.2	-575536.1
	-10032.9	-2260.0	-142.8	-240.2	16876.4	-578780.7
	-10014.4	-2214.7	-191.7	-886.4	23475.6	-571752.0
	-10073.1	-2358.2	-37.2	1154.0	2653.0	-594003.9
	-10054.6	-2312.9	-86.2	507.9	9252.2	-586975.2
	-10039.0	-2275.2	-129.5	-25.0	15084.2	-581129.3
	-10020.4	-2229.8	-178.5	-671.1	21683.4	-574100.5
	-10079.2	-2373.3	-23.9	1369.3	860.8	-596352.5
	-10060.6	-2328.0	-72.9	723.1	7460.0	-589323.7
	-10069.2	-2349.0	-49.2	1028.6	4270.2	-592568.3
	-10050.6	-2303.6	-98.2	382.5	10869.4	-585539.5
	-10109.4	-2447.1	56.4	2422.9	-9953.2	-607791.5
	-10090.8	-2401.8	7.4	1776.7	-3354.0	-600762.8

Asta	174	nodì	81	159		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-10761.5	-2027.6	-134.6	-1278.1	-27553.2	125255.0
	-10752.8	-2001.7	-182.6	-1916.2	-36986.2	120948.1
	-10780.3	-2083.7	-31.3	102.7	-7234.3	134580.4
	-10771.6	-2057.8	-79.3	-535.4	-16667.2	130273.5
	-10775.6	-2069.8	-56.0	-238.6	-12080.8	132271.8
	-10766.9	-2043.9	-103.9	-876.7	-21513.7	127964.9
	-10794.3	-2125.8	47.4	1142.1	8238.2	141597.2
	-10785.7	-2099.9	-0.6	504.0	-1194.8	137290.3
	-10778.4	-2078.2	-43.0	-25.1	-9544.1	133686.9
	-10769.7	-2052.4	-91.0	-663.1	-18977.1	129380.0
	-10797.2	-2134.3	60.3	1355.7	10774.8	143012.3
	-10788.5	-2108.4	12.3	717.6	1341.9	138705.4
	-10792.5	-2120.4	35.6	1014.4	5928.3	140703.7
	-10783.8	-2094.5	-12.3	376.3	-3504.6	136396.8
	-10811.2	-2176.4	139.0	2395.1	26247.3	150029.1
	-10802.6	-2150.6	91.0	1757.1	16814.3	145722.2
165.	-10243.1	-2027.6	-134.6	-1278.1	-5337.7	-209299.7
	-10234.5	-2001.7	-182.6	-1916.2	-6856.4	-209337.3
	-10261.9	-2083.7	-31.3	102.7	-2066.1	-209222.0
	-10253.3	-2057.8	-79.3	-535.4	-3584.7	-209259.6
	-10257.2	-2069.8	-56.0	-238.6	-2846.8	-209238.0
	-10248.5	-2043.9	-103.9	-876.7	-4365.5	-209275.6
	-10276.0	-2125.8	47.4	1142.1	424.8	-209160.2
	-10267.3	-2099.9	-0.6	504.0	-1093.8	-209197.8
	-10260.0	-2078.2	-43.0	-25.1	-2443.6	-209223.7
	-10251.4	-2052.4	-91.0	-663.1	-3962.2	-209261.3
	-10278.8	-2134.3	60.3	1355.7	828.1	-209146.0
	-10270.2	-2108.4	12.3	717.6	-690.6	-209183.6
	-10274.1	-2120.4	35.6	1014.4	47.3	-209162.0
	-10265.4	-2094.5	-12.3	376.3	-1471.3	-209199.6
	-10292.9	-2176.4	139.0	2395.1	3318.9	-209084.3
	-10284.2	-2150.6	91.0	1757.1	1800.3	-209121.9
330.	-9724.8	-2027.6	-134.6	-1278.1	16877.8	-543854.2
	-9716.1	-2001.7	-182.6	-1916.2	23273.5	-539622.5
	-9743.5	-2083.7	-31.3	102.7	3102.1	-553024.6
	-9734.9	-2057.8	-79.3	-535.4	9497.8	-548792.9
	-9738.8	-2069.8	-56.0	-238.6	6387.1	-550747.5
	-9730.2	-2043.9	-103.9	-876.7	12782.8	-546515.8
	-9757.6	-2125.8	47.4	1142.1	-7388.5	-559917.9
	-9749.0	-2099.9	-0.6	504.0	-992.9	-555686.2
	-9741.7	-2078.2	-43.0	-25.1	4656.9	-552134.2
	-9733.0	-2052.4	-91.0	-663.1	11052.6	-547902.5
	-9760.5	-2134.3	60.3	1355.7	-9118.7	-561304.6
	-9751.8	-2108.4	12.3	717.6	-2723.1	-557072.9
	-9755.7	-2120.4	35.6	1014.4	-5833.7	-559027.5
	-9747.1	-2094.5	-12.3	376.3	562.0	-554795.8
	-9774.5	-2176.4	139.0	2395.1	-19609.4	-568197.9
	-9765.9	-2150.6	91.0	1757.1	-13213.7	-563966.2

Asta	175	nodì	82	160		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-10837.5	-2061.8	-94.8	-1280.8	-18365.1	127341.6
	-10833.1	-2050.3	-142.6	-1921.0	-27752.3	125571.9
	-10846.8	-2086.7	8.0	100.9	1839.6	131152.1
	-10842.5	-2075.2	-39.8	-539.3	-7547.6	129382.4
	-10844.5	-2080.7	-16.4	-237.2	-2956.2	130231.5
	-10840.2	-2069.1	-64.2	-877.4	-12343.4	128461.8
	-10853.9	-2105.6	86.4	1144.5	17248.5	134041.9
	-10849.6	-2094.0	38.7	504.3	7861.3	132272.2
	-10845.8	-2084.2	-3.5	-26.7	-428.2	130777.1
	-10841.5	-2072.7	-51.3	-666.9	-9815.4	129007.4
	-10855.2	-2109.1	99.3	1355.0	19776.5	134587.6
	-10850.9	-2097.6	51.5	714.8	10389.3	132817.8
	-10852.8	-2103.1	74.9	1017.0	14980.6	133667.0
	-10848.5	-2091.5	27.1	376.8	5593.5	131897.3
	-10862.2	-2128.0	177.7	2398.7	35185.3	137477.4
	-10857.9	-2116.4	130.0	1758.5	25798.2	135707.7
165.	-10319.1	-2061.8	-94.8	-1280.8	-2721.0	-212859.3
	-10314.8	-2050.3	-142.6	-1921.0	-4225.7	-212724.5
	-10328.5	-2086.7	8.0	100.9	518.1	-213160.3
	-10324.2	-2075.2	-39.8	-539.3	-986.6	-213025.5
	-10326.1	-2080.7	-16.4	-237.2	-251.0	-213078.4
	-10321.8	-2069.1	-64.2	-877.4	-1755.8	-212943.5
	-10335.5	-2105.6	86.4	1144.5	2988.1	-213379.4
	-10331.2	-2094.0	38.7	504.3	1483.4	-213244.5
	-10327.4	-2084.2	-3.5	-26.7	150.9	-213120.6
	-10323.1	-2072.7	-51.3	-666.9	-1353.8	-212985.7
	-10336.8	-2109.1	99.3	1355.0	3390.0	-213421.5
	-10332.5	-2097.6	51.5	714.8	1885.3	-213286.7
	-10334.4	-2103.1	74.9	1017.0	2620.8	-213339.6
	-10330.1	-2091.5	27.1	376.8	1116.1	-213204.8
	-10343.8	-2128.0	177.7	2398.7	5860.0	-213640.6
	-10339.5	-2116.4	130.0	1758.5	4355.2	-213505.7
330.	-9800.7	-2061.8	-94.8	-1280.8	12923.1	-553060.7
	-9796.4	-2050.3	-142.6	-1921.0	19300.8	-551021.3
	-9810.1	-2086.7	8.0	100.9	-803.3	-557472.3
	-9805.8	-2075.2	-39.8	-539.3	5574.4	-555432.9
	-9807.7	-2080.7	-16.4	-237.2	2454.1	-556388.7

	-9803.4	-2069.1	-64.2	-877.4	8831.9	-554349.3
	-9817.1	-2105.6	86.4	1144.5	-11272.3	-560800.3
	-9812.8	-2094.0	38.7	504.3	-4894.6	-558760.9
	-9809.1	-2084.2	-3.5	-26.7	730.0	-557018.6
	-9804.7	-2072.7	-51.3	-666.9	7107.7	-554979.2
	-9818.4	-2109.1	99.3	1355.0	-12996.4	-561430.3
	-9814.1	-2097.6	51.5	714.8	-6618.7	-559390.9
	-9816.1	-2103.1	74.9	1017.0	-9739.0	-560346.6
	-9811.8	-2091.5	27.1	376.8	-3361.2	-558307.2
	-9825.5	-2128.0	177.7	2398.7	-23465.4	-564758.2
	-9821.1	-2116.4	130.0	1758.5	-17087.7	-562718.8
Asta	176	nod	83	161		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-10837.1	-2118.4	-45.5	-1276.1	-9084.6	141552.3
	-10837.1	-2120.3	-93.4	-1917.7	-18507.5	142068.7
	-10837.2	-2114.3	57.5	97.4	11175.5	140443.5
	-10837.3	-2116.3	9.6	-544.2	1752.5	140960.0
	-10837.0	-2115.4	33.1	-228.7	6390.7	140726.5
	-10837.1	-2117.3	-14.8	-870.2	-3032.2	141243.0
	-10837.1	-2111.3	136.1	1144.8	26650.8	139617.7
	-10837.2	-2113.2	88.2	503.3	17227.8	140134.2
	-10836.8	-2114.3	46.1	-26.6	8946.0	140487.2
	-10836.8	-2116.2	-1.8	-668.1	-477.0	141003.7
	-10836.9	-2110.2	149.1	1346.9	29206.0	139378.5
	-10836.9	-2112.2	101.2	705.4	19783.1	139894.9
	-10836.7	-2111.3	124.8	1020.8	24421.3	139661.4
	-10836.8	-2113.2	76.9	379.3	14998.3	140177.9
	-10836.8	-2107.2	227.8	2394.3	44681.3	138552.7
	-10836.9	-2109.1	179.9	1752.8	35258.4	139069.1
165.	-10318.7	-2118.4	-45.5	-1276.1	-1571.2	-207985.6
	-10318.8	-2120.3	-93.4	-1917.7	-3090.5	-207786.1
	-10318.8	-2114.3	57.5	97.4	1695.1	-208423.8
	-10318.9	-2116.3	9.6	-544.2	175.9	-208224.2
	-10318.6	-2115.4	33.1	-228.7	924.0	-208309.7
	-10318.7	-2117.3	-14.8	-870.2	-595.3	-208110.1
	-10318.8	-2111.3	136.1	1144.8	4190.3	-208747.9
	-10318.8	-2113.2	88.2	503.3	2671.1	-208548.3
	-10318.4	-2114.3	46.1	-26.6	1335.9	-208373.0
	-10318.5	-2116.2	-1.8	-668.1	-183.3	-208173.5
	-10318.5	-2110.2	149.1	1346.9	4602.3	-208811.2
	-10318.6	-2112.2	101.2	705.4	3083.0	-208611.7
	-10318.3	-2111.3	124.8	1020.8	3831.1	-208697.1
	-10318.4	-2113.2	76.9	379.3	2311.9	-208497.5
	-10318.5	-2107.2	227.8	2394.3	7097.5	-209135.3
	-10318.5	-2109.1	179.9	1752.8	5578.2	-208935.7
330.	-9800.3	-2118.4	-45.5	-1276.1	5942.2	-557527.4
	-9800.4	-2120.3	-93.4	-1917.7	12326.6	-557644.7
	-9800.5	-2114.3	57.5	97.4	-7785.2	-557292.7
	-9800.5	-2116.3	9.6	-544.2	-1400.8	-557410.0
	-9800.3	-2115.4	33.1	-228.7	-4542.8	-557349.7
	-9800.3	-2117.3	-14.8	-870.2	1841.6	-557467.0
	-9800.4	-2111.3	136.1	1144.8	-18270.1	-557115.0
	-9800.5	-2113.2	88.2	503.3	-11885.7	-557232.3
	-9800.0	-2114.3	46.1	-26.6	-6274.1	-557231.8
	-9800.1	-2116.2	-1.8	-668.1	110.3	-557349.1
	-9800.2	-2110.2	149.1	1346.9	-20001.5	-556997.1
	-9800.2	-2112.2	101.2	705.4	-13617.0	-557114.4
	-9800.0	-2111.3	124.8	1020.8	-16759.0	-557054.1
	-9800.0	-2113.2	76.9	379.3	-10374.6	-557171.4
	-9800.1	-2107.2	227.8	2394.3	-30486.4	-556819.4
	-9800.2	-2109.1	179.9	1752.8	-24102.0	-556936.7
Asta	177	nod	84	162		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-10957.5	-2174.7	-10.6	-1284.2	-232.5	168726.0
	-10965.9	-2190.7	-59.9	-1926.6	-9846.0	171739.4
	-10939.6	-2140.7	95.4	89.7	20418.2	162320.9
	-10948.0	-2156.8	46.1	-552.7	10804.7	165334.4
	-10943.8	-2148.7	70.5	-232.5	15559.1	163821.1
	-10952.2	-2164.7	21.1	-875.0	5945.6	166834.5
	-10925.9	-2114.7	176.4	1141.4	36209.8	157416.0
	-10934.3	-2130.7	127.1	498.9	26596.4	160429.5
	-10940.9	-2142.8	84.0	-27.9	18203.9	162722.9
	-10949.3	-2158.8	34.7	-670.4	8590.4	165736.4
	-10923.0	-2108.8	190.0	1346.0	38854.7	156317.9
	-10931.4	-2124.8	140.7	703.5	29241.2	159331.3
	-10927.2	-2116.7	165.1	1023.8	33995.6	157818.0
	-10935.6	-2132.7	115.8	381.3	24382.1	160831.5
	-10909.3	-2082.7	271.1	2397.7	54646.3	151412.9
	-10917.7	-2098.7	221.7	1755.2	45032.8	154426.4
165.	-10439.1	-2174.7	-10.6	-1284.2	1514.3	-190104.5
	-10447.5	-2190.7	-59.9	-1926.6	41.7	-189733.1
	-10421.3	-2140.7	95.4	89.7	4677.7	-190901.3
	-10429.7	-2156.8	46.1	-552.7	3205.1	-190529.9
	-10425.4	-2148.7	70.5	-232.5	3933.5	-190710.5
	-10433.8	-2164.7	21.1	-875.0	2460.9	-190339.1
	-10407.5	-2114.7	176.4	1141.4	7096.9	-191507.3
	-10415.9	-2130.7	127.1	498.9	5624.3	-191135.9
	-10422.6	-2142.8	84.0	-27.9	4335.9	-190832.2
	-10430.9	-2158.8	34.7	-670.4	2863.3	-190460.8

165.	-2234.7	-165.3	170.2	1748.7	7042.0	38740.7
	-1710.0	-300.1	399.5	-1271.0	-7539.5	17312.3
	-1708.4	-328.4	447.2	-1905.1	-4729.8	18540.0
	-1712.9	-239.8	297.1	89.1	-13571.7	14691.6
	-1711.4	-268.0	344.8	-544.9	-10761.9	15919.3
	-1712.3	-254.0	321.3	-233.8	-12143.9	15307.8
	-1710.8	-282.2	369.0	-867.9	-9334.2	16535.4
	-1715.3	-193.6	218.9	1126.3	-18176.1	12687.1
	-1713.8	-221.9	266.6	492.3	-15366.4	13914.7
	-1712.5	-243.6	303.1	-14.6	-13217.3	14856.9
	-1711.0	-271.8	350.8	-648.6	-10407.6	16084.6
	-1715.5	-183.2	200.7	1345.5	-19249.5	12236.2
	-1714.0	-211.5	248.4	711.5	-16439.8	13463.9
	-1714.8	-197.4	224.9	1022.6	-17821.8	12852.3
	-1713.3	-225.7	272.6	388.5	-15012.0	14080.0
	-1717.8	-137.1	122.5	2382.7	-23853.9	10231.6
	-1716.3	-165.3	170.2	1748.7	-21044.2	11459.3
330.	-1191.6	-300.1	399.5	-1271.0	-73454.7	-32210.0
	-1190.1	-328.4	447.2	-1905.1	-78516.5	-35644.3
	-1194.6	-239.8	297.1	89.1	-62586.9	-24874.3
	-1193.1	-268.0	344.8	-544.9	-67648.6	-28308.7
	-1193.9	-254.0	321.3	-233.8	-65160.2	-26599.9
	-1192.4	-282.2	369.0	-867.9	-70221.9	-30034.2
	-1196.9	-193.6	218.9	1126.3	-54292.4	-19264.2
	-1195.4	-221.9	266.6	492.3	-59354.1	-22698.6
	-1194.2	-243.6	303.1	-14.6	-63231.0	-25333.5
	-1192.6	-271.8	350.8	-648.6	-68292.8	-28767.8
	-1197.1	-183.2	200.7	1345.5	-52363.2	-17997.8
	-1195.6	-211.5	248.4	711.5	-57425.0	-21432.2
	-1196.5	-197.4	224.9	1022.6	-54936.5	-19723.4
	-1195.0	-225.7	272.6	388.5	-59998.3	-23157.8
	-1199.5	-137.1	122.5	2382.7	-44068.7	-12387.7
	-1198.0	-165.3	170.2	1748.7	-49130.4	-15822.1
Asta PROGR. 0.	180	nod	73	165		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-10917.3	2191.5	219.6	-1294.7	44881.6	-178128.9
	-10908.2	2176.2	284.4	-1936.4	57548.1	-175296.9
	-10936.5	2224.1	80.5	80.9	17675.5	-184152.1
	-10927.5	2208.7	145.3	-560.8	30342.0	-181320.1
	-10932.0	2216.4	113.5	-246.2	24124.6	-182738.8
	-10923.0	2201.1	178.3	-887.9	36791.1	-179906.9
	-10951.3	2249.0	-25.6	1129.4	-3081.4	-188762.1
	-10942.3	2233.7	39.1	487.7	9585.1	-185930.1
	-10935.4	2222.3	88.7	-14.1	19266.2	-183812.1
	-10926.4	2206.9	153.4	-655.8	31932.8	-180980.1
	-10954.7	2254.8	-50.5	1361.5	-7939.8	-189835.3
	-10945.7	2239.5	14.3	719.9	4726.7	-187003.3
	-10950.2	2247.2	-17.5	1034.4	-1490.7	-188422.1
	-10941.2	2231.9	47.3	392.8	11175.8	-185590.1
	-10969.5	2279.8	-156.6	2410.0	-28696.7	-194445.3
	-10960.4	2264.4	-91.9	1768.4	-16030.2	-191613.3
165.	-10398.9	2191.5	219.6	-1294.7	8642.0	183468.6
	-10389.9	2176.2	284.4	-1936.4	10620.5	183772.2
	-10418.2	2224.1	80.5	80.9	4392.8	182816.6
	-10409.1	2208.7	145.3	-560.8	6371.3	183120.2
	-10413.7	2216.4	113.5	-246.2	5399.8	182974.6
	-10404.6	2201.1	178.3	-887.9	7378.3	183278.2
	-10432.9	2249.0	-25.6	1129.4	1150.7	182322.7
	-10423.9	2233.7	39.1	487.7	3129.2	182626.3
	-10417.1	2222.3	88.7	-14.1	4638.8	182861.8
	-10408.0	2206.9	153.4	-655.8	6617.3	183165.4
	-10436.3	2254.8	-50.5	1361.5	389.6	182209.9
	-10427.3	2239.5	14.3	719.9	2368.1	182513.5
	-10431.9	2247.2	-17.5	1034.4	1396.6	182367.9
	-10422.8	2231.9	47.3	392.8	3375.1	182671.5
	-10451.1	2279.8	-156.6	2410.0	-2852.6	181716.0
	-10442.1	2264.4	-91.9	1768.4	-874.1	182019.6
330.	-9880.5	2191.5	219.6	-1294.7	-27597.5	545065.9
	-9871.5	2176.2	284.4	-1936.4	-36307.1	542841.1
	-9899.8	2224.1	80.5	80.9	-8889.8	549785.5
	-9890.8	2208.7	145.3	-560.8	-17599.4	547560.7
	-9895.3	2216.4	113.5	-246.2	-13324.9	548688.0
	-9886.3	2201.1	178.3	-887.9	-22034.5	546463.2
	-9914.6	2249.0	-25.6	1129.4	5382.7	553407.6
	-9905.5	2233.7	39.1	487.7	-3326.8	551182.7
	-9898.7	2222.3	88.7	-14.1	-9988.7	549535.7
	-9889.7	2206.9	153.4	-655.8	-18698.2	547310.9
	-9918.0	2254.8	-50.5	1361.5	8719.0	554255.2
	-9908.9	2239.5	14.3	719.9	9.5	552030.4
	-9913.5	2247.2	-17.5	1034.4	4283.9	553157.8
	-9904.4	2231.9	47.3	392.8	-4425.6	550932.9
	-9932.8	2279.8	-156.6	2410.0	22991.6	557877.3
	-9923.7	2264.4	-91.9	1768.4	14282.0	555652.5
Asta PROGR. 0.	181	nod	74	166		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-10813.6	2295.3	113.9	-1285.9	22513.7	-188428.5
	-10813.6	2295.6	177.2	-1926.5	35024.0	-188504.1
	-10813.4	2294.4	-22.2	92.1	-4374.4	-188234.5
	-10813.4	2294.7	41.1	-548.4	8135.9	-188310.0

	-10813.6	2294.8	10.2	-243.9	2019.3	-188305.6
	-10813.6	2295.1	73.5	-884.5	14529.5	-188381.2
	-10813.4	2293.9	-125.9	1134.1	-24868.9	-188111.5
	-10813.4	2294.2	-62.6	493.5	-12358.6	-188187.1
	-10813.7	2294.8	-14.2	-17.6	-2796.8	-188297.6
	-10813.7	2295.1	49.1	-658.2	9713.5	-188373.2
	-10813.4	2293.9	-150.3	1360.4	-29684.9	-188103.5
	-10813.4	2294.2	-87.0	719.8	-17174.6	-188179.1
	-10813.7	2294.3	-117.9	1024.3	-23291.2	-188174.6
	-10813.7	2294.6	-54.6	383.8	-10781.0	-188250.2
	-10813.4	2293.4	-254.0	2402.4	-50179.4	-187980.6
	-10813.4	2293.7	-190.7	1761.8	-37669.1	-188056.1
165.	-10295.3	2295.3	113.9	-1285.9	3721.8	190294.4
	-10295.3	2295.6	177.2	-1926.5	5785.5	190270.8
	-10295.0	2294.4	-22.2	92.1	-713.6	190340.3
	-10295.0	2294.7	41.1	-548.4	1350.1	190316.8
	-10295.3	2294.8	10.2	-243.9	341.2	190333.9
	-10295.3	2295.1	73.5	-884.5	2404.9	190310.4
	-10295.0	2293.9	-125.9	1134.1	-4094.2	190379.9
	-10295.0	2294.2	-62.6	493.5	-2030.5	190356.4
	-10295.3	2294.8	-14.2	-17.6	-455.4	190347.4
	-10295.3	2295.1	49.1	-658.2	1608.3	190323.9
	-10295.1	2293.9	-150.3	1360.4	-4890.8	190393.3
	-10295.1	2294.2	-87.0	719.8	-2827.1	190369.8
	-10295.3	2294.3	-117.9	1024.3	-3836.0	190387.0
	-10295.3	2294.6	-54.6	383.8	-1772.3	190363.4
	-10295.1	2293.4	-254.0	2402.4	-8271.4	190432.9
	-10295.1	2293.7	-190.7	1761.8	-6207.7	190409.4
330.	-9776.9	2295.3	113.9	-1285.9	-15070.1	569028.1
	-9776.9	2295.6	177.2	-1926.5	-23452.9	569056.7
	-9776.7	2294.4	-22.2	92.1	2947.3	568912.9
	-9776.7	2294.7	41.1	-548.4	-5435.6	568941.5
	-9776.9	2294.8	10.2	-243.9	-1336.9	568984.3
	-9776.9	2295.1	73.5	-884.5	-9719.7	569012.9
	-9776.7	2293.9	-125.9	1134.1	16680.5	568869.2
	-9776.7	2294.2	-62.6	493.5	8297.6	568897.7
	-9776.9	2294.8	-14.2	-17.6	1886.0	568994.5
	-9777.0	2295.1	49.1	-658.2	-6496.9	569023.0
	-9776.7	2293.9	-150.3	1360.4	19903.3	568879.3
	-9776.7	2294.2	-87.0	719.8	11520.5	568907.9
	-9776.9	2294.3	-117.9	1024.3	15619.2	568950.7
	-9777.0	2294.6	-54.6	383.8	7236.3	568979.3
	-9776.7	2293.4	-254.0	2402.4	33636.5	568835.5
	-9776.7	2293.7	-190.7	1761.8	25253.7	568864.1
Asta	182	nod1	75	167		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-10924.9	2417.5	-49.6	-1285.4	-10673.1	-226207.8
	-10933.0	2434.0	14.5	-1925.8	1869.4	-229273.3
	-10907.1	2381.4	-187.4	97.3	-37651.0	-219541.0
	-10915.2	2397.9	-123.3	-543.0	-25108.5	-222606.4
	-10911.5	2390.6	-154.5	-242.5	-31214.2	-221236.0
	-10919.7	2407.2	-90.4	-882.8	-18671.6	-224301.4
	-10893.7	2354.5	-292.3	1140.2	-58192.1	-214569.1
	-10901.9	2371.1	-228.3	499.9	-45649.5	-217634.5
	-10908.6	2384.9	-179.1	-21.1	-36039.6	-220176.8
	-10916.8	2401.5	-115.1	-661.4	-23497.1	-223242.2
	-10890.8	2348.8	-317.0	1361.7	-63017.5	-213509.9
	-10899.0	2365.4	-252.9	721.3	-50475.0	-216575.3
	-10895.3	2358.1	-284.1	1021.8	-56580.6	-215204.9
	-10903.5	2374.6	-220.0	381.5	-44038.1	-218270.3
	-10877.5	2322.0	-421.9	2404.6	-83558.5	-208538.0
	-10885.7	2338.5	-357.8	1764.2	-71016.0	-211603.5
165.	-10406.5	2417.5	-49.6	-1285.4	-2493.4	172672.6
	-10414.7	2434.0	14.5	-1925.8	-523.4	172341.1
	-10388.7	2381.4	-187.4	97.3	-6730.7	173386.6
	-10396.9	2397.9	-123.3	-543.0	-4760.6	173055.1
	-10393.2	2390.6	-154.5	-242.5	-5719.9	173211.7
	-10401.4	2407.2	-90.4	-882.8	-3749.8	172880.2
	-10375.4	2354.5	-292.3	1140.2	-9957.1	173925.7
	-10383.6	2371.1	-228.3	499.9	-7987.1	173594.2
	-10390.3	2384.9	-179.1	-21.1	-6480.9	173335.6
	-10398.5	2401.5	-115.1	-661.4	-4510.9	173004.2
	-10372.5	2348.8	-317.0	1361.7	-10718.2	174049.7
	-10380.7	2365.4	-252.9	721.3	-8748.1	173718.2
	-10377.0	2358.1	-284.1	1021.8	-9707.3	173874.7
	-10385.1	2374.6	-220.0	381.5	-7737.3	173543.3
	-10359.1	2322.0	-421.9	2404.6	-13944.6	174588.8
	-10367.3	2338.5	-357.8	1764.2	-11974.5	174257.3
330.	-9888.1	2417.5	-49.6	-1285.4	5686.3	571553.2
	-9896.3	2434.0	14.5	-1925.8	-2916.2	573955.7
	-9870.3	2381.4	-187.4	97.3	24189.7	566314.1
	-9878.5	2397.9	-123.3	-543.0	15587.2	568716.6
	-9874.8	2390.6	-154.5	-242.5	19774.4	567659.5
	-9883.0	2407.2	-90.4	-882.8	11172.0	570062.0
	-9857.0	2354.5	-292.3	1140.2	38277.9	562420.5
	-9865.2	2371.1	-228.3	499.9	29675.4	564823.0
	-9871.9	2384.9	-179.1	-21.1	23077.8	566848.1
	-9880.1	2401.5	-115.1	-661.4	14475.3	569250.6
	-9854.1	2348.8	-317.0	1361.7	41581.2	561609.1
	-9862.3	2365.4	-252.9	721.3	32978.7	564011.6

	-9858.6	2358.1	-284.1	1021.8	37165.9	562954.4
	-9866.8	2374.6	-220.0	381.5	28563.5	565356.9
	-9840.8	2322.0	-421.9	2404.6	55669.4	557715.4
	-9849.0	2338.5	-357.8	1764.2	47066.9	560117.9
Asta	183	nod1	76	168		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4001.7	585.5	-252.1	-1282.3	-35394.4	-87573.8
	-4007.3	629.3	-202.9	-1918.0	-24609.5	-95333.9
	-3989.2	490.4	-358.0	86.1	-58603.4	-70769.9
	-3994.8	534.3	-308.8	-549.6	-47818.6	-78530.0
	-3992.7	514.0	-332.7	-242.7	-53050.5	-74938.6
	-3998.3	557.9	-283.5	-878.4	-42265.6	-82698.7
	-3980.2	419.0	-438.6	1125.7	-76259.5	-58134.6
	-3985.8	462.9	-389.4	490.0	-65474.7	-65894.8
	-3991.3	498.5	-351.5	-24.3	-57179.3	-72214.4
	-3996.9	542.4	-302.3	-659.9	-46394.4	-79974.5
	-3978.8	403.5	-457.4	1344.1	-80388.3	-55410.4
	-3984.4	447.4	-408.2	708.5	-69603.5	-63170.6
	-3982.2	427.1	-432.1	1015.3	-74835.4	-59579.1
	-3987.9	471.0	-382.8	379.6	-64050.5	-67339.3
	-3969.7	332.0	-538.0	2383.7	-98044.5	-42775.2
	-3975.4	375.9	-488.8	1748.0	-87259.6	-50535.3
165.	-3483.3	585.5	-252.1	-1282.3	6201.6	9025.9
	-3489.0	629.3	-202.9	-1918.0	8864.6	8507.1
	-3470.8	490.4	-358.0	86.1	470.9	10151.2
	-3476.5	534.3	-308.8	-549.6	3133.8	9632.4
	-3474.3	514.0	-332.7	-242.7	1842.0	9869.1
	-3479.9	557.9	-283.5	-878.4	4505.0	9350.3
	-3461.8	419.0	-438.6	1125.7	-3888.7	10994.4
	-3467.5	462.9	-389.4	490.0	-1225.8	10475.6
	-3472.9	498.5	-351.5	-24.3	814.8	10044.6
	-3478.5	542.4	-302.3	-659.9	3477.7	9525.8
	-3460.4	403.5	-457.4	1344.1	-4916.0	11169.9
	-3466.0	447.4	-408.2	708.5	-2253.1	10651.1
	-3463.9	427.1	-432.1	1015.3	-3544.8	10887.7
	-3469.5	471.0	-382.8	379.6	-881.9	10369.0
	-3451.4	332.0	-538.0	2383.7	-9275.6	12013.1
	-3457.0	375.9	-488.8	1748.0	-6612.7	11494.3
330.	-2965.0	585.5	-252.1	-1282.3	47797.6	105625.7
	-2970.6	629.3	-202.9	-1918.0	42338.6	112348.2
	-2952.5	490.4	-358.0	86.1	59545.2	91072.3
	-2958.1	534.3	-308.8	-549.6	54086.2	97794.9
	-2955.9	514.0	-332.7	-242.7	56734.5	94676.8
	-2961.6	557.9	-283.5	-878.4	51275.5	101399.3
	-2943.4	419.0	-438.6	1125.7	68482.1	80123.5
	-2949.1	462.9	-389.4	490.0	63023.1	86846.0
	-2954.5	498.5	-351.5	-24.3	58808.8	92303.5
	-2960.2	542.4	-302.3	-659.9	53349.8	99026.0
	-2942.0	403.5	-457.4	1344.1	70556.3	77750.2
	-2947.7	447.4	-408.2	708.5	65097.4	84472.7
	-2945.5	427.1	-432.1	1015.3	67745.7	81354.6
	-2951.1	471.0	-382.8	379.6	62286.7	88077.2
	-2933.0	332.0	-538.0	2383.7	79493.2	66801.3
	-2938.7	375.9	-488.8	1748.0	74034.3	73523.8
Asta	184	nod1	79	169		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-6800.9	-593.8	-445.0	-1223.1	-67244.7	10523.5
	-6786.0	-516.2	-482.5	-1832.0	-75466.0	-3600.1
	-6833.2	-761.8	-364.1	87.9	-49519.3	41073.2
	-6818.3	-684.1	-401.6	-521.0	-57740.7	26949.6
	-6824.9	-720.3	-383.5	-226.0	-53780.2	33532.9
	-6810.0	-642.7	-421.1	-834.9	-62001.6	19409.3
	-6857.2	-888.2	-302.6	1085.1	-36054.9	64082.6
	-6842.4	-810.6	-340.2	476.2	-44276.3	49959.0
	-6831.2	-746.0	-373.2	-24.0	-51536.6	38201.2
	-6816.3	-668.4	-410.8	-632.9	-59758.0	24077.6
	-6863.5	-913.9	-292.3	1287.1	-33811.3	68750.9
	-6848.6	-836.3	-329.9	678.2	-42032.7	54627.3
	-6855.3	-872.5	-311.8	973.1	-38072.2	61210.6
	-6840.4	-794.8	-349.3	364.2	-46293.6	47087.0
	-6887.6	-1040.4	-230.9	2284.2	-20346.9	91760.3
	-6872.7	-962.8	-268.4	1675.3	-28568.2	77636.7
165.	-6282.5	-593.8	-445.0	-1223.1	6181.8	-87460.8
	-6267.6	-516.2	-482.5	-1832.0	4152.8	-88774.9
	-6314.8	-761.8	-364.1	87.9	10557.6	-84619.0
	-6299.9	-684.1	-401.6	-521.0	8528.6	-85933.0
	-6306.6	-720.3	-383.5	-226.0	9503.7	-85319.8
	-6291.7	-642.7	-421.1	-834.9	7474.7	-86633.9
	-6338.9	-888.2	-302.6	1085.1	13879.5	-82477.9
	-6324.0	-810.6	-340.2	476.2	11850.5	-83792.0
	-6312.8	-746.0	-373.2	-24.0	10047.0	-84889.7
	-6298.0	-668.4	-410.8	-632.9	8018.0	-86203.8
	-6345.2	-913.9	-292.3	1287.1	14422.8	-82047.9
	-6330.3	-836.3	-329.9	678.2	12393.8	-83362.0
	-6336.9	-872.5	-311.8	973.1	13368.9	-82748.7
	-6322.0	-794.8	-349.3	364.2	11339.9	-84062.8
	-6369.2	-1040.4	-230.9	2284.2	17744.6	-79906.9
	-6354.3	-962.8	-268.4	1675.3	15715.7	-81220.9
330.	-5764.1	-593.8	-445.0	-1223.1	79608.3	-185445.1

	-5749.3	-516.2	-482.5	-1832.0	83771.8	-173949.7
	-5796.4	-761.8	-364.1	87.9	70634.5	-210311.1
	-5781.6	-684.1	-401.6	-521.0	74797.9	-198815.7
	-5788.2	-720.3	-383.5	-226.0	72787.6	-204172.4
	-5773.3	-642.7	-421.1	-834.9	76951.1	-192677.0
	-5820.5	-888.2	-302.6	1085.1	63813.8	-229038.4
	-5805.6	-810.6	-340.2	476.2	67977.2	-217543.0
	-5794.5	-746.0	-373.2	-24.0	71630.6	-207980.7
	-5779.6	-668.4	-410.8	-632.9	75794.0	-196485.3
	-5826.8	-913.9	-292.3	1287.1	62656.8	-232846.7
	-5811.9	-836.3	-329.9	678.2	66820.2	-221351.3
	-5818.5	-872.5	-311.8	973.1	64809.9	-226708.0
	-5803.7	-794.8	-349.3	364.2	68973.4	-215212.6
	-5850.9	-1040.4	-230.9	2284.2	55836.1	-251574.0
	-5836.0	-962.8	-268.4	1675.3	59999.5	-240078.6
Asta	188	nod	123	183		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-12.7	863.1	2.5	-11184.5	373.1	-80729.3
	-8.4	766.4	3.4	-11192.3	539.0	-79636.7
	-21.9	1071.0	0.2	-11169.6	-6.1	-82972.9
	-17.6	974.3	1.1	-11177.4	159.8	-81880.4
	-11.0	1021.8	0.7	-11165.2	84.0	-82608.8
	-6.7	925.0	1.6	-11173.1	249.8	-81516.3
	-20.2	1229.7	-1.5	-11150.3	-295.2	-84852.4
	-15.9	1132.9	-0.6	-11158.2	-129.4	-83759.9
	13.8	1059.5	-0.6	-11083.5	-46.0	-83578.9
	18.1	962.8	0.3	-11091.3	119.9	-82486.3
	4.6	1267.4	-2.8	-11068.6	-425.2	-85822.5
	8.9	1170.7	-2.0	-11076.4	-259.3	-84730.0
	15.5	1218.2	-2.3	-11064.3	-335.1	-85458.4
	19.8	1121.4	-1.4	-11072.1	-169.3	-84365.9
	6.3	1426.1	-4.6	-11049.3	-714.3	-87702.0
	10.6	1329.3	-3.7	-11057.2	-548.5	-86609.5
90.	-12.7	355.7	2.5	-11184.5	156.6	-25771.8
	-8.4	258.9	3.4	-11192.3	241.9	-33408.1
	-21.9	563.5	0.2	-11169.6	-22.5	-9251.5
	-17.6	466.8	1.1	-11177.4	62.8	-16887.8
	-11.0	514.3	0.7	-11165.2	23.3	-13339.2
	-6.7	417.5	1.6	-11173.1	108.6	-20975.5
	-20.2	722.2	-1.5	-11150.3	-155.7	3181.1
	-15.9	625.4	-0.6	-11158.2	-70.5	-4455.2
	13.8	552.1	-0.6	-11083.5	5.0	-10868.7
	18.1	455.3	0.3	-11091.3	90.2	-18504.9
	4.6	760.0	-2.8	-11068.6	-174.1	5651.6
	8.9	663.2	-2.0	-11076.4	-88.9	-1984.6
	15.5	710.7	-2.3	-11064.3	-128.3	1563.9
	19.8	613.9	-1.4	-11072.1	-43.1	-6072.3
	6.3	918.6	-4.6	-11049.3	-307.4	18084.2
	10.6	821.8	-3.7	-11057.2	-222.1	10448.0
180.	-12.7	-151.8	2.5	-11184.5	-94.4	-16575.8
	-8.4	-248.6	3.4	-11192.3	-89.8	-32940.8
	-21.9	56.1	0.2	-11169.6	-35.7	18700.1
	-17.6	-40.7	1.1	-11177.4	-31.1	2335.1
	-11.0	6.8	0.7	-11165.2	-71.8	10168.9
	-6.7	-89.9	1.6	-11173.1	-67.2	-6196.1
	-20.2	214.7	-1.5	-11150.3	-13.1	45444.8
	-15.9	118.0	-0.6	-11158.2	-8.5	29079.8
	13.8	44.6	-0.6	-11083.5	52.8	16044.3
	18.1	-52.2	0.3	-11091.3	57.4	-320.7
	4.6	252.5	-2.8	-11068.6	111.5	51320.2
	8.9	155.7	-2.0	-11076.4	116.1	34955.2
	15.5	203.2	-2.3	-11064.3	75.4	42789.1
	19.8	106.5	-1.4	-11072.1	80.0	26424.0
	6.3	411.1	-4.6	-11049.3	134.1	78065.0
	10.6	314.4	-3.7	-11057.2	138.7	61700.0
Asta	189	nod	124	123		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.7	208.6	2.7	-644.2	224.5	-1546.6
	-1.3	159.6	4.1	-82.5	340.1	3996.4
	-2.5	313.8	-0.3	-1856.4	-21.9	-13471.7
	-2.1	264.9	1.1	-1294.7	93.7	-7928.7
	-1.3	288.7	0.5	-1561.1	40.1	-10624.3
	-0.9	239.8	1.9	-999.3	155.7	-5081.3
	-2.1	393.9	-2.5	-2773.3	-206.3	-22549.4
	-1.7	345.0	-1.1	-2211.5	-90.7	-17006.4
	1.2	307.1	0.2	-1752.2	14.8	-12709.1
	1.6	258.2	1.6	-1190.5	130.4	-7166.1
	0.4	412.4	-2.8	-2964.5	-231.6	-24634.2
	0.8	363.4	-1.4	-2402.7	-116.0	-19091.2
	1.6	387.2	-2.0	-2669.1	-169.6	-21786.8
	2.0	338.3	-0.6	-2107.3	-54.0	-16243.8
	0.8	492.5	-5.0	-3881.3	-416.0	-33711.9
	1.2	443.6	-3.6	-3319.6	-300.4	-28168.9
85.	-1.7	-34.4	2.7	-644.2	-5.9	6049.5
	-1.3	-83.3	4.1	-82.5	-8.6	7451.8
	-2.5	70.9	-0.3	-1856.4	-0.7	3032.1
	-2.1	21.9	1.1	-1294.7	-3.4	4434.4
	-1.3	45.7	0.5	-1561.1	-2.1	3753.2
	-0.9	-3.2	1.9	-999.3	-4.8	5155.5

	-2.1	151.0	-2.5	-2773.3	3.1	735.8
	-1.7	102.1	-1.1	-2211.5	0.4	2138.2
	1.2	64.1	0.2	-1752.2	-1.6	3226.9
	1.6	15.2	1.6	-1190.5	-4.3	4629.2
	0.4	169.4	-2.8	-2964.5	3.5	209.5
	0.8	120.5	-1.4	-2402.7	0.8	1611.8
	1.6	144.3	-2.0	-2669.1	2.2	930.6
	2.0	95.4	-0.6	-2107.3	-0.5	2332.9
	0.8	249.5	-5.0	-3881.3	7.4	-2086.8
	1.2	200.6	-3.6	-3319.6	4.7	-684.5
169.	-1.7	-309.6	2.7	-644.2	-232.4	-8278.1
	-1.3	-358.5	4.1	-82.5	-353.5	-11016.4
	-2.5	-204.3	-0.3	-1856.4	22.7	-2387.7
	-2.1	-253.3	1.1	-1294.7	-98.4	-5126.1
	-1.3	-229.4	0.5	-1561.1	-40.4	-3793.0
	-0.9	-278.4	1.9	-999.3	-161.4	-6531.3
	-2.1	-124.2	-2.5	-2773.3	214.7	2097.4
	-1.7	-173.1	-1.1	-2211.5	93.7	-640.9
	1.2	-211.0	0.2	-1752.2	-20.2	-2760.9
	1.6	-260.0	1.6	-1190.5	-141.2	-5499.2
	0.4	-105.8	-2.8	-2964.5	234.9	3129.5
	0.8	-154.7	-1.4	-2402.7	113.9	391.2
	1.6	-130.9	-2.0	-2669.1	171.8	1724.3
	2.0	-179.8	-0.6	-2107.3	50.8	-1014.1
	0.8	-25.6	-5.0	-3881.3	426.9	7614.6
	1.2	-74.6	-3.6	-3319.6	305.9	4876.3
Asta	190	nod	126	124		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.8	252.7	1.6	-13249.2	231.1	-14143.7
	-1.6	211.4	2.4	-12589.0	345.6	-8642.3
	-1.4	341.5	-0.1	-14673.8	-16.5	-25973.0
	-1.3	300.2	0.7	-14013.6	97.9	-20471.7
	-1.3	320.3	0.3	-14326.9	44.5	-23159.0
	-1.2	279.0	1.1	-13666.6	158.9	-17657.6
	-1.0	409.2	-1.4	-15751.4	-203.1	-34988.3
	-0.8	367.9	-0.6	-15091.2	-88.7	-29487.0
	0.6	336.1	0.0	-14548.2	2.7	-25264.0
	0.8	294.8	0.8	-13888.0	117.1	-19762.7
	1.0	425.0	-1.7	-15972.8	-244.9	-37093.4
	1.1	383.7	-0.9	-15312.6	-130.5	-31592.0
	1.1	403.8	-1.3	-15625.8	-183.9	-34279.3
	1.2	362.5	-0.5	-14965.6	-69.5	-28778.0
	1.4	492.6	-3.0	-17050.4	-431.6	-46108.7
	1.6	451.3	-2.2	-16390.2	-317.1	-40607.3
130.	-1.8	8.9	1.6	-13249.2	19.9	2858.2
	-1.6	-32.4	2.4	-12589.0	30.5	2990.2
	-1.4	97.7	-0.1	-14673.8	-2.8	2574.3
	-1.3	56.4	0.7	-14013.6	7.8	2706.3
	-1.3	76.6	0.3	-14326.9	3.4	2641.7
	-1.2	35.3	1.1	-13666.6	14.0	2773.8
	-1.0	165.4	-1.4	-15751.4	-19.3	2357.9
	-0.8	124.1	-0.6	-15091.2	-8.7	2489.9
	0.6	92.4	0.0	-14548.2	0.7	2590.7
	0.8	51.1	0.8	-13888.0	11.3	2722.7
	1.0	181.2	-1.7	-15972.8	-21.9	2306.8
	1.1	139.9	-0.9	-15312.6	-11.4	2438.9
	1.1	160.1	-1.3	-15625.8	-15.7	2374.3
	1.2	118.8	-0.5	-14965.6	-5.2	2506.3
	1.4	248.9	-3.0	-17050.4	-38.4	2090.4
	1.6	207.6	-2.2	-16390.2	-27.9	2222.5
260.	-1.8	-234.8	1.6	-13249.2	-191.4	-11827.5
	-1.6	-276.1	2.4	-12589.0	-284.7	-17064.9
	-1.4	-146.0	-0.1	-14673.8	10.9	-565.9
	-1.3	-187.3	0.7	-14013.6	-82.4	-5803.3
	-1.3	-167.2	0.3	-14326.9	-37.7	-3245.0
	-1.2	-208.5	1.1	-13666.6	-131.0	-8482.4
	-1.0	-78.3	-1.4	-15751.4	164.6	8016.6
	-0.8	-119.6	-0.6	-15091.2	71.3	2779.2
	0.6	-151.4	0.0	-14548.2	-1.2	-1242.0
	0.8	-192.7	0.8	-13888.0	-94.5	-6479.4
	1.0	-62.5	-1.7	-15972.8	201.1	10019.6
	1.1	-103.8	-0.9	-15312.6	107.8	4782.2
	1.1	-83.7	-1.3	-15625.8	152.5	7340.4
	1.2	-125.0	-0.5	-14965.6	59.2	2103.1
	1.4	5.1	-3.0	-17050.4	354.8	18602.0
	1.6	-36.2	-2.2	-16390.2	261.5	13364.7
Asta	191	nod	145	126		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.0	464.4	2.2	3359.7	548.0	-16532.3
	-1.0	441.0	3.4	3780.1	820.7	-11482.4
	-1.1	514.7	-0.2	2453.5	-39.6	-27394.9
	-1.1	491.3	1.0	2873.9	233.2	-22345.1
	-0.6	502.7	0.4	2673.0	101.8	-24804.6
	-0.6	479.3	1.5	3093.3	374.6	-19754.8
	-0.7	553.1	-2.0	1766.8	-485.7	-35667.3
	-0.7	529.7	-0.9	2187.1	-212.9	-30617.4
	0.0	511.6	0.0	2532.9	9.1	-26713.6
	0.0	488.2	1.2	2953.3	281.8	-21663.8
	-0.2	561.9	-2.4	1626.7	-578.4	-37576.3

	-0.1	538.5	-1.3	2047.1	-305.7	-32526.4
	0.4	549.9	-1.8	1846.2	-437.0	-34986.0
	0.4	526.5	-0.7	2266.5	-164.3	-29936.2
	0.3	600.2	-4.2	940.0	-1024.5	-45848.6
	0.3	576.8	-3.1	1360.3	-751.8	-40798.8
203.	-1.0	-75.0	2.2	3359.7	94.2	22967.4
	-1.0	-98.4	3.4	3780.1	141.1	23276.6
	-1.1	-24.6	-0.2	2453.5	-6.7	22301.8
	-1.1	-48.0	1.0	2873.9	40.2	22610.9
	-0.6	-36.6	0.4	2673.0	17.6	22461.5
	-0.6	-60.0	1.5	3093.3	64.4	22770.6
	-0.7	13.7	-2.0	1766.8	-83.3	21795.8
	-0.7	-9.7	-0.9	2187.1	-36.4	22105.0
	0.0	-27.8	0.0	2532.9	1.7	22348.2
	0.0	-51.2	1.2	2953.3	48.6	22657.4
	-0.2	22.5	-2.4	1626.7	-99.2	21682.6
	-0.1	-0.8	-1.3	2047.1	-52.3	21991.7
	0.4	10.6	-1.8	1846.2	-74.9	21842.3
	0.4	-12.8	-0.7	2266.5	-28.1	22151.4
	0.3	60.9	-4.2	940.0	-175.8	21176.6
	0.3	37.5	-3.1	1360.3	-128.9	21485.8
405.	-1.0	-616.8	2.2	3359.7	-359.5	-47076.8
	-1.0	-640.2	3.4	3780.1	-538.6	-51508.4
	-1.1	-566.4	-0.2	2453.5	26.2	-37545.5
	-1.1	-589.8	1.0	2873.9	-152.8	-41977.0
	-0.6	-578.4	0.4	2673.0	-66.6	-39816.4
	-0.6	-601.8	1.5	3093.3	-245.7	-44247.9
	-0.7	-528.1	-2.0	1766.8	319.1	-30285.1
	-0.7	-551.5	-0.9	2187.1	140.1	-34716.6
	0.0	-569.6	0.0	2532.9	-5.7	-38133.8
	0.0	-593.0	1.2	2953.3	-184.7	-42565.3
	-0.2	-519.3	-2.4	1626.7	380.1	-28602.5
	-0.1	-542.7	-1.3	2047.1	201.0	-33034.0
	0.4	-531.3	-1.8	1846.2	287.2	-30873.4
	0.4	-554.6	-0.7	2266.5	108.2	-35304.9
	0.3	-480.9	-4.2	940.0	673.0	-21342.1
	0.3	-504.3	-3.1	1360.3	493.9	-25773.6
Asta	192	nod	171	110		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3.0	490.6	0.6	27500.4	106.4	96733.2
	-2.8	486.6	0.9	27877.9	146.6	97288.6
	-5.0	499.1	0.1	26687.7	25.8	95529.3
	-4.8	495.2	0.3	27065.2	66.1	96084.8
	-1.5	497.0	0.1	26882.6	29.5	95829.4
	-1.4	493.0	0.4	27260.1	69.8	96384.9
	-3.5	505.6	-0.4	26069.9	-51.1	94625.5
	-3.3	501.6	-0.1	26447.4	-10.8	95181.0
	2.0	498.3	0.0	26730.5	-13.3	95642.6
	2.1	494.3	0.2	27108.0	27.0	96198.1
	0.0	506.9	-0.6	25917.8	-93.9	94438.7
	0.2	502.9	-0.3	26295.3	-53.6	94994.2
	3.5	504.7	-0.5	26112.7	-90.2	94738.8
	3.6	500.8	-0.2	26490.2	-49.9	95294.3
	1.5	513.3	-1.1	25300.0	-170.8	93535.0
	1.7	509.4	-0.8	25677.5	-130.5	94090.4
261.	-3.0	-587.6	0.6	27500.4	-56.4	84073.8
	-2.8	-591.6	0.9	27877.9	-85.8	83597.2
	-5.0	-579.0	0.1	26687.7	7.4	85107.5
	-4.8	-583.0	0.3	27065.2	-21.9	84630.8
	-1.5	-581.2	0.1	26882.6	-9.4	84848.6
	-1.4	-585.1	0.4	27260.1	-38.7	84372.0
	-3.5	-572.6	-0.4	26069.9	54.5	85882.3
	-3.3	-576.6	-0.1	26447.4	25.1	85405.6
	2.0	-579.9	0.0	26730.5	-2.4	85002.5
	2.1	-583.8	0.2	27108.0	-31.8	84525.9
	0.0	-571.3	-0.6	25917.8	61.4	86036.2
	0.2	-575.3	-0.3	26295.3	32.1	85559.5
	3.5	-573.4	-0.5	26112.7	44.6	85777.3
	3.6	-577.4	-0.2	26490.2	15.3	85300.7
	1.5	-564.9	-1.1	25300.0	108.5	86811.0
	1.7	-568.8	-0.8	25677.5	79.1	86334.3
522.	-3.0	-1665.8	0.6	27500.4	-218.1	-209841.1
	-2.8	-1669.7	0.9	27877.9	-317.2	-211349.8
	-5.0	-1657.2	0.1	26687.7	-10.5	-206569.9
	-4.8	-1661.2	0.3	27065.2	-109.5	-208078.6
	-1.5	-1659.3	0.1	26882.6	-47.1	-207387.7
	-1.4	-1663.3	0.4	27260.1	-146.2	-208896.5
	-3.5	-1650.8	-0.4	26069.9	160.5	-204116.5
	-3.3	-1654.7	-0.1	26447.4	61.5	-205625.3
	2.0	-1658.0	0.0	26730.5	8.1	-206893.1
	2.1	-1662.0	0.2	27108.0	-91.0	-208401.9
	0.0	-1649.5	-0.6	25917.8	215.7	-203621.9
	0.2	-1653.4	-0.3	26295.3	116.7	-205130.7
	3.5	-1651.6	-0.5	26112.7	179.1	-204439.8
	3.6	-1655.6	-0.2	26490.2	80.0	-205948.5
	1.5	-1643.0	-1.1	25300.0	386.7	-201168.6
	1.7	-1647.0	-0.8	25677.5	287.7	-202677.3
Asta	193	nod	172	144		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ

0.	-3.1	0.0	2.0	0.0	0.0	0.0
	-3.0	0.0	2.9	0.0	0.0	0.0
	-4.0	0.0	-0.1	0.0	0.0	0.0
	-3.9	0.0	0.9	0.0	0.0	0.0
	-1.4	0.0	0.4	0.0	0.0	0.0
	-1.2	0.0	1.4	0.0	0.0	0.0
	-2.3	0.0	-1.7	0.0	0.0	0.0
	-2.1	0.0	-0.7	0.0	0.0	0.0
	1.6	0.0	-0.1	0.0	0.0	0.0
	1.8	0.0	0.9	0.0	0.0	0.0
	0.7	0.0	-2.1	0.0	0.0	0.0
	0.9	0.0	-1.2	0.0	0.0	0.0
	3.3	0.0	-1.6	0.0	0.0	0.0
	3.5	0.0	-0.6	0.0	0.0	0.0
	2.4	0.0	-3.7	0.0	0.0	0.0
	2.6	0.0	-2.7	0.0	0.0	0.0
57.	-3.1	-107.8	2.0	0.0	-113.4	-3098.3
	-3.0	-107.8	2.9	0.0	-169.0	-3098.3
	-4.0	-107.8	-0.1	0.0	6.6	-3098.3
	-3.9	-107.8	0.9	0.0	-48.9	-3098.3
	-1.4	-107.8	0.4	0.0	-24.2	-3098.3
	-1.2	-107.8	1.4	0.0	-79.7	-3098.3
	-2.3	-107.8	-1.7	0.0	95.9	-3098.3
	-2.1	-107.8	-0.7	0.0	40.3	-3098.3
	1.6	-107.8	-0.1	0.0	3.2	-3098.3
	1.8	-107.8	0.9	0.0	-52.3	-3098.3
	0.7	-107.8	-2.1	0.0	123.3	-3098.3
	0.9	-107.8	-1.2	0.0	67.7	-3098.3
	3.3	-107.8	-1.6	0.0	92.5	-3098.3
	3.5	-107.8	-0.6	0.0	37.0	-3098.3
	2.4	-107.8	-3.7	0.0	212.6	-3098.3
	2.6	-107.8	-2.7	0.0	157.0	-3098.3
115.	-3.1	-215.6	2.0	0.0	-226.9	-12393.2
	-3.0	-215.6	2.9	0.0	-337.9	-12393.2
	-4.0	-215.6	-0.1	0.0	13.2	-12393.2
	-3.9	-215.6	0.9	0.0	-97.9	-12393.2
	-1.4	-215.6	0.4	0.0	-48.3	-12393.2
	-1.2	-215.6	1.4	0.0	-159.4	-12393.2
	-2.3	-215.6	-1.7	0.0	191.8	-12393.2
	-2.1	-215.6	-0.7	0.0	80.7	-12393.2
	1.6	-215.6	-0.1	0.0	6.5	-12393.2
	1.8	-215.6	0.9	0.0	-104.6	-12393.2
	0.7	-215.6	-2.1	0.0	246.6	-12393.2
	0.9	-215.6	-1.2	0.0	135.5	-12393.2
	3.3	-215.6	-1.6	0.0	185.0	-12393.2
	3.5	-215.6	-0.6	0.0	74.0	-12393.2
	2.4	-215.6	-3.7	0.0	425.1	-12393.2
	2.6	-215.6	-2.7	0.0	314.0	-12393.2
Asta PROGR. 0.	194	nod	117	118		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-4.1	1405.6	2.2	16224.5	368.0	-79847.0
	-3.9	1371.8	3.3	15713.9	545.2	-74494.5
	-5.8	1478.6	-0.1	17328.2	-12.4	-91418.6
	-5.6	1444.8	1.0	16817.5	164.8	-86066.1
	-2.3	1460.7	0.5	17056.6	74.6	-88570.9
	-2.1	1426.9	1.5	16545.9	251.8	-83218.4
	-4.0	1533.7	-1.8	18160.2	-305.8	-100142.5
	-3.8	1499.9	-0.8	17649.6	-128.6	-94790.0
	2.1	1471.2	0.0	17249.7	2.0	-90244.1
	2.3	1437.4	1.1	16739.1	179.2	-84891.6
	0.4	1544.2	-2.3	18353.4	-378.4	-101815.7
	0.6	1510.5	-1.2	17842.8	-201.2	-96463.1
	3.8	1526.3	-1.8	18081.8	-291.4	-98968.0
	4.0	1492.5	-0.7	17571.1	-114.2	-93615.5
	2.2	1599.3	-4.0	19185.5	-671.8	-110539.6
	2.4	1565.5	-3.0	18674.8	-494.6	-105187.0
147.	-4.1	195.5	2.2	16224.5	42.8	40368.2
	-3.9	161.7	3.3	15713.9	64.6	40763.3
	-5.8	268.5	-0.1	17328.2	-3.9	39514.0
	-5.6	234.7	1.0	16817.5	17.9	39909.1
	-2.3	250.5	0.5	17056.6	6.6	39724.1
	-2.1	216.8	1.5	16545.9	28.4	40119.2
	-4.0	323.6	-1.8	18160.2	-40.1	38869.9
	-3.8	289.8	-0.8	17649.6	-18.2	39265.0
	2.1	261.1	0.0	17249.7	2.1	39600.7
	2.3	227.3	1.1	16739.1	23.9	39995.8
	0.4	334.1	-2.3	18353.4	-44.5	38746.5
	0.6	300.3	-1.2	17842.8	-22.7	39141.6
	3.8	316.1	-1.8	18081.8	-34.0	38956.6
	4.0	282.4	-0.7	17571.1	-12.2	39351.7
	2.2	389.2	-4.0	19185.5	-80.7	38102.4
	2.4	355.4	-3.0	18674.8	-58.9	38497.5
294.	-4.1	-1236.5	2.2	16224.5	-282.7	-33315.8
	-3.9	-1270.3	3.3	15713.9	-416.2	-37878.1
	-5.8	-1163.5	-0.1	17328.2	4.4	-23452.7
	-5.6	-1197.3	1.0	16817.5	-129.1	-28014.9
	-2.3	-1181.5	0.5	17056.6	-61.6	-25880.2
	-2.1	-1215.2	1.5	16545.9	-195.2	-30442.4
	-4.0	-1108.4	-1.8	18160.2	225.4	-16017.0
	-3.8	-1142.2	-0.8	17649.6	91.9	-20579.3

	2.1	-1170.9	0.0	17249.7	2.5	-24453.7
	2.3	-1204.7	1.1	16739.1	-131.0	-29016.0
	0.4	-1097.9	-2.3	18353.4	289.6	-14590.5
	0.6	-1131.7	-1.2	17842.8	156.0	-19152.8
	3.8	-1115.9	-1.8	18081.8	223.5	-17018.0
	4.0	-1149.6	-0.7	17571.1	90.0	-21580.3
	2.2	-1042.8	-4.0	19185.5	510.6	-7154.9
	2.4	-1076.6	-3.0	18674.8	377.1	-11717.1
Asta	195	nod	143	118		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.7	421.8	2.0	-10658.9	220.3	-33156.1
	-1.8	447.0	3.0	-9997.4	331.4	-36502.0
	-2.1	367.2	-0.2	-12086.5	-19.5	-25916.9
	-2.1	392.5	0.8	-11424.9	91.6	-29262.8
	0.2	380.7	0.4	-11738.7	40.9	-27707.1
	0.1	406.0	1.4	-11077.2	152.1	-31053.0
	-0.2	326.2	-1.8	-13166.3	-198.9	-20467.9
	-0.3	351.4	-0.8	-12504.7	-87.7	-23813.8
	-0.6	373.7	0.0	-11978.9	6.8	-26760.2
	-0.6	398.9	1.0	-11317.3	117.9	-30106.1
	-0.9	319.1	-2.1	-13406.4	-233.0	-19521.0
	-1.0	344.4	-1.1	-12744.9	-121.9	-22866.9
	1.3	332.7	-1.6	-13058.7	-172.5	-21311.3
	1.2	357.9	-0.6	-12397.2	-61.4	-24657.1
	0.9	278.1	-3.7	-14486.3	-412.4	-14072.0
	0.9	303.3	-2.7	-13824.7	-301.2	-17417.9
113.	-1.7	174.6	2.0	-10658.9	-3.0	302.5
	-1.8	199.8	3.0	-9997.4	-4.5	-194.7
	-2.1	120.0	-0.2	-12086.5	0.3	1376.8
	-2.1	145.3	0.8	-11424.9	-1.2	879.6
	0.2	133.5	0.4	-11738.7	-0.5	1112.8
	0.1	158.8	1.4	-11077.2	-2.0	615.7
	-0.2	79.0	-1.8	-13166.3	2.9	2187.1
	-0.3	104.2	-0.8	-12504.7	1.4	1690.0
	-0.6	126.5	0.0	-11978.9	1.6	1266.9
	-0.6	151.7	1.0	-11317.3	0.1	769.8
	-0.9	71.9	-2.1	-13406.4	4.9	2341.2
	-1.0	97.2	-1.1	-12744.9	3.4	1844.1
	1.3	85.5	-1.6	-13058.7	4.1	2077.2
	1.2	110.7	-0.6	-12397.2	2.6	1580.1
	0.9	30.9	-3.7	-14486.3	7.4	3151.5
	0.9	56.1	-2.7	-13824.7	5.9	2654.4
226.	-1.7	-49.0	2.0	-10658.9	-226.1	7175.8
	-1.8	-23.7	3.0	-9997.4	-340.2	9527.4
	-2.1	-103.5	-0.2	-12086.5	20.3	2085.2
	-2.1	-78.3	0.8	-11424.9	-93.8	4436.8
	0.2	-90.0	0.4	-11738.7	-41.6	3347.4
	0.1	-64.8	1.4	-11077.2	-155.8	5699.1
	-0.2	-144.6	-1.8	-13166.3	204.8	-1743.1
	-0.3	-119.4	-0.8	-12504.7	90.7	608.5
	-0.6	-97.1	0.0	-11978.9	-3.9	2708.6
	-0.6	-71.8	1.0	-11317.3	-118.1	5060.2
	-0.9	-151.6	-2.1	-13406.4	242.5	-2382.0
	-1.0	-126.4	-1.1	-12744.9	128.4	-30.4
	1.3	-138.1	-1.6	-13058.7	180.6	-1119.8
	1.2	-112.9	-0.6	-12397.2	66.4	1231.9
	0.9	-192.7	-3.7	-14486.3	427.0	-6210.3
	0.9	-167.5	-2.7	-13824.7	312.9	-3858.7
Asta	196	nod	143	173		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2.1	215.6	1.9	0.0	219.3	-12393.2
	-2.2	215.6	2.8	0.0	324.8	-12393.2
	-2.7	215.6	-0.1	0.0	-8.3	-12393.2
	-2.8	215.6	0.8	0.0	97.2	-12393.2
	0.0	215.6	0.4	0.0	45.2	-12393.2
	0.0	215.6	1.3	0.0	150.7	-12393.2
	-0.6	215.6	-1.6	0.0	-182.4	-12393.2
	-0.6	215.6	-0.7	0.0	-76.9	-12393.2
	-0.7	215.6	-0.1	0.0	-8.9	-12393.2
	-0.8	215.6	0.8	0.0	96.7	-12393.2
	-1.3	215.6	-2.1	0.0	-236.5	-12393.2
	-1.4	215.6	-1.1	0.0	-130.9	-12393.2
	1.5	215.6	-1.6	0.0	-183.0	-12393.2
	1.4	215.6	-0.7	0.0	-77.4	-12393.2
	0.9	215.6	-3.6	0.0	-410.6	-12393.2
	0.8	215.6	-2.7	0.0	-305.0	-12393.2
57.	-2.1	107.8	1.9	0.0	109.6	-3098.3
	-2.2	107.8	2.8	0.0	162.4	-3098.3
	-2.7	107.8	-0.1	0.0	-4.2	-3098.3
	-2.8	107.8	0.8	0.0	48.6	-3098.3
	0.0	107.8	0.4	0.0	22.6	-3098.3
	0.0	107.8	1.3	0.0	75.4	-3098.3
	-0.6	107.8	-1.6	0.0	-91.2	-3098.3
	-0.6	107.8	-0.7	0.0	-38.4	-3098.3
	-0.7	107.8	-0.1	0.0	-4.4	-3098.3
	-0.8	107.8	0.8	0.0	48.3	-3098.3
	-1.3	107.8	-2.1	0.0	-118.2	-3098.3
	-1.4	107.8	-1.1	0.0	-65.5	-3098.3
	1.5	107.8	-1.6	0.0	-91.5	-3098.3

	1.4	107.8	-0.7	0.0	-38.7	-3098.3
	0.9	107.8	-3.6	0.0	-205.3	-3098.3
	0.8	107.8	-2.7	0.0	-152.5	-3098.3
115.	-2.1	0.0	1.9	0.0	0.0	0.0
	-2.2	0.0	2.8	0.0	0.0	0.0
	-2.7	0.0	-0.1	0.0	0.0	0.0
	-2.8	0.0	0.8	0.0	0.0	0.0
	0.0	0.0	0.4	0.0	0.0	0.0
	0.0	0.0	1.3	0.0	0.0	0.0
	-0.6	0.0	-1.6	0.0	0.0	0.0
	-0.6	0.0	-0.7	0.0	0.0	0.0
	-0.7	0.0	-0.1	0.0	0.0	0.0
	-0.8	0.0	0.8	0.0	0.0	0.0
	-1.3	0.0	-2.1	0.0	0.0	0.0
	-1.4	0.0	-1.1	0.0	0.0	0.0
	1.5	0.0	-1.6	0.0	0.0	0.0
	1.4	0.0	-0.7	0.0	0.0	0.0
	0.9	0.0	-3.6	0.0	0.0	0.0
	0.8	0.0	-2.7	0.0	0.0	0.0
Asta	198	nodj	176	175		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3.9	0.0	-1.3	0.0	0.0	0.0
	-3.8	0.0	-1.9	0.0	0.0	0.0
	-3.5	0.0	-0.2	0.0	0.0	0.0
	-3.4	0.0	-0.7	0.0	0.0	0.0
	-4.7	0.0	-0.3	0.0	0.0	0.0
	-4.5	0.0	-0.8	0.0	0.0	0.0
	-4.3	0.0	0.9	0.0	0.0	0.0
	-4.2	0.0	0.3	0.0	0.0	0.0
	2.8	0.0	0.1	0.0	0.0	0.0
	3.0	0.0	-0.5	0.0	0.0	0.0
	3.2	0.0	1.2	0.0	0.0	0.0
	3.3	0.0	0.7	0.0	0.0	0.0
	2.0	0.0	1.1	0.0	0.0	0.0
	2.2	0.0	0.6	0.0	0.0	0.0
	2.4	0.0	2.3	0.0	0.0	0.0
	2.5	0.0	1.7	0.0	0.0	0.0
40.	-3.9	-74.9	-1.3	0.0	53.8	-1496.3
	-3.8	-74.9	-1.9	0.0	76.2	-1496.3
	-3.5	-74.9	-0.2	0.0	7.3	-1496.3
	-3.4	-74.9	-0.7	0.0	29.7	-1496.3
	-4.7	-74.9	-0.3	0.0	11.2	-1496.3
	-4.5	-74.9	-0.8	0.0	33.6	-1496.3
	-4.3	-74.9	0.9	0.0	-35.3	-1496.3
	-4.2	-74.9	0.3	0.0	-12.9	-1496.3
	2.8	-74.9	0.1	0.0	-2.6	-1496.3
	3.0	-74.9	-0.5	0.0	19.8	-1496.3
	3.2	-74.9	1.2	0.0	-49.2	-1496.3
	3.3	-74.9	0.7	0.0	-26.8	-1496.3
	2.0	-74.9	1.1	0.0	-45.2	-1496.3
	2.2	-74.9	0.6	0.0	-22.8	-1496.3
	2.4	-74.9	2.3	0.0	-91.8	-1496.3
	2.5	-74.9	1.7	0.0	-69.4	-1496.3
80.	-3.9	-149.8	-1.3	0.0	107.7	-5985.0
	-3.8	-149.8	-1.9	0.0	152.5	-5985.0
	-3.5	-149.8	-0.2	0.0	14.6	-5985.0
	-3.4	-149.8	-0.7	0.0	59.4	-5985.0
	-4.7	-149.8	-0.3	0.0	22.5	-5985.0
	-4.5	-149.8	-0.8	0.0	67.3	-5985.0
	-4.3	-149.8	0.9	0.0	-70.6	-5985.0
	-4.2	-149.8	0.3	0.0	-25.8	-5985.0
	2.8	-149.8	0.1	0.0	-5.3	-5985.0
	3.0	-149.8	-0.5	0.0	39.5	-5985.0
	3.2	-149.8	1.2	0.0	-98.4	-5985.0
	3.3	-149.8	0.7	0.0	-53.6	-5985.0
	2.0	-149.8	1.1	0.0	-90.5	-5985.0
	2.2	-149.8	0.6	0.0	-45.7	-5985.0
	2.4	-149.8	2.3	0.0	-183.6	-5985.0
	2.5	-149.8	1.7	0.0	-138.8	-5985.0
Asta	199	nodj	97	89		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	2.3	329.0	1.5	-10989.9	229.1	-18652.3
	2.2	328.5	2.2	-10586.7	339.5	-18566.7
	2.0	330.0	0.0	-11851.3	-7.1	-18830.0
	1.9	329.5	0.7	-11448.2	103.3	-18744.4
	2.3	329.7	0.3	-11648.9	50.4	-18784.7
	2.2	329.2	1.0	-11245.7	160.8	-18699.1
	2.0	330.7	-1.2	-12510.3	-185.8	-18962.4
	1.9	330.2	-0.5	-12107.2	-75.4	-18876.8
	-2.4	330.7	0.0	-11787.2	-3.3	-18951.4
	-2.5	330.3	0.7	-11384.1	107.1	-18865.9
	-2.7	331.7	-1.6	-12648.7	-239.5	-19129.2
	-2.8	331.3	-0.8	-12245.6	-129.0	-19043.6
	-2.4	331.5	-1.2	-12446.2	-182.0	-19083.8
	-2.5	331.0	-0.5	-12043.1	-71.6	-18998.2
	-2.7	332.5	-2.7	-13307.7	-418.2	-19261.6
	-2.8	332.0	-2.0	-12904.6	-307.8	-19176.0
170.	2.3	10.2	1.5	-10989.9	-23.8	10183.3
	2.2	9.8	2.2	-10586.7	-35.4	10187.1

	2.0	11.2	0.0	-11851.3	1.3	10175.1
	1.9	10.7	0.7	-11448.2	-10.4	10178.8
	2.3	11.0	0.3	-11648.9	-4.7	10176.9
	2.2	10.5	1.0	-11245.7	-16.4	10180.6
	2.0	12.0	-1.2	-12510.3	20.3	10168.6
	1.9	11.5	-0.5	-12107.2	8.6	10172.4
	-2.4	12.0	0.0	-11787.2	-0.4	10178.3
	-2.5	11.5	0.7	-11384.1	-12.0	10182.0
	-2.7	13.0	-1.6	-12648.7	24.6	10170.0
	-2.8	12.5	-0.8	-12245.6	13.0	10173.8
	-2.4	12.7	-1.2	-12446.2	18.6	10171.8
	-2.5	12.2	-0.5	-12043.1	7.0	10175.6
	-2.7	13.7	-2.7	-13307.7	43.6	10163.6
	-2.8	13.2	-2.0	-12904.6	32.0	10167.3
340.	2.3	-308.5	1.5	-10989.9	-276.6	-15173.1
	2.2	-309.0	2.2	-10586.7	-410.3	-15251.2
	2.0	-307.5	0.0	-11851.3	9.6	-15011.8
	1.9	-308.0	0.7	-11448.2	-124.1	-15089.9
	2.3	-307.8	0.3	-11648.9	-59.8	-15053.6
	2.2	-308.3	1.0	-11245.7	-193.5	-15131.7
	2.0	-306.8	-1.2	-12510.3	226.4	-14892.3
	1.9	-307.3	-0.5	-12107.2	92.7	-14970.4
	-2.4	-306.8	0.0	-11787.2	2.5	-14875.1
	-2.5	-307.2	0.7	-11384.1	-131.2	-14953.1
	-2.7	-305.8	-1.6	-12648.7	288.7	-14713.8
	-2.8	-306.2	-0.8	-12245.6	155.0	-14791.9
	-2.4	-306.0	-1.2	-12446.2	219.2	-14755.6
	-2.5	-306.5	-0.5	-12043.1	85.5	-14833.7
	-2.7	-305.0	-2.7	-13307.7	505.4	-14594.3
	-2.8	-305.5	-2.0	-12904.6	371.7	-14672.4
Asta	200	nod	98	97		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	19.4	326.7	1.0	1018.6	177.7	-18973.8
	19.2	326.9	1.6	1052.2	271.6	-19014.7
	21.7	326.2	-0.1	946.7	-19.8	-18881.6
	21.5	326.5	0.4	980.3	74.1	-18922.5
	21.5	326.3	0.2	963.7	28.1	-18900.6
	21.4	326.5	0.7	997.2	122.1	-18941.4
	23.8	325.9	-1.0	891.7	-169.4	-18808.4
	23.7	326.1	-0.4	925.3	-75.4	-18849.2
	-21.4	327.3	0.0	952.3	2.3	-19062.4
	-21.5	327.5	0.5	985.9	96.3	-19103.3
	-19.1	326.8	-1.1	880.4	-195.2	-18970.2
	-19.2	327.0	-0.6	914.0	-101.3	-19011.1
	-19.3	326.9	-0.8	897.4	-147.2	-18989.1
	-19.4	327.1	-0.3	930.9	-53.3	-19030.0
	-17.0	326.4	-2.0	825.4	-344.7	-18896.9
	-17.1	326.6	-1.4	859.0	-250.8	-18937.8
173.	19.4	3.3	1.0	1018.6	3.3	9483.4
	19.2	3.5	1.6	1052.2	4.6	9477.9
	21.7	2.8	-0.1	946.7	-0.6	9495.2
	21.5	3.0	0.4	980.3	0.6	9489.7
	21.5	2.9	0.2	963.7	0.4	9492.3
	21.4	3.1	0.7	997.2	1.7	9486.8
	23.8	2.4	-1.0	891.7	-3.5	9504.1
	23.7	2.6	-0.4	925.3	-2.2	9498.6
	-21.4	3.8	0.0	952.3	1.0	9498.1
	-21.5	4.0	0.5	985.9	2.3	9492.6
	-19.1	3.4	-1.1	880.4	-2.9	9509.9
	-19.2	3.6	-0.6	914.0	-1.6	9504.4
	-19.3	3.5	-0.8	897.4	-1.8	9507.0
	-19.4	3.7	-0.3	930.9	-0.5	9501.5
	-17.0	3.0	-2.0	825.4	-5.8	9518.8
	-17.1	3.2	-1.4	859.0	-4.5	9513.3
345.	19.4	-320.2	1.0	1018.6	-172.3	-17844.9
	19.2	-320.0	1.6	1052.2	-263.7	-17815.0
	21.7	-320.6	-0.1	946.7	18.0	-17913.6
	21.5	-320.4	0.4	980.3	-73.3	-17883.8
	21.5	-320.5	0.2	963.7	-28.5	-17900.3
	21.4	-320.3	0.7	997.2	-119.9	-17870.5
	23.8	-321.0	-1.0	891.7	161.8	-17969.0
	23.7	-320.8	-0.4	925.3	70.5	-17939.2
	-21.4	-319.6	0.0	952.3	0.3	-17741.6
	-21.5	-319.4	0.5	985.9	-91.1	-17711.8
	-19.1	-320.1	-1.1	880.4	190.6	-17810.4
	-19.2	-319.9	-0.6	914.0	99.3	-17780.6
	-19.3	-320.0	-0.8	897.4	144.1	-17797.1
	-19.4	-319.8	-0.3	930.9	52.7	-17767.3
	-17.0	-320.5	-2.0	825.4	334.4	-17865.8
	-17.1	-320.2	-1.4	859.0	243.1	-17836.0
Asta	201	nod	101	98		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	20.3	229.2	1.2	-11171.1	185.9	-4829.6
	20.1	229.4	1.8	-11130.0	286.5	-4860.0
	22.6	228.6	-0.1	-11258.9	-26.0	-4760.3
	22.4	228.9	0.5	-11217.9	74.6	-4790.7
	22.8	228.7	0.2	-11238.1	28.1	-4775.3
	22.7	229.0	0.8	-11197.1	128.6	-4805.7
	25.1	228.2	-1.1	-11326.0	-183.8	-4706.1

	25.0	228.4	-0.5	-11284.9	-83.3	-4736.4
	-23.0	229.6	0.0	-11252.1	11.9	-4903.2
	-23.1	229.9	0.7	-11211.0	112.4	-4933.5
	-20.7	229.1	-1.3	-11339.9	-200.0	-4833.9
	-20.8	229.3	-0.6	-11298.9	-99.5	-4864.3
	-20.4	229.2	-0.9	-11319.1	-146.0	-4848.9
	-20.5	229.5	-0.3	-11278.1	-45.4	-4879.3
	-18.1	228.7	-2.2	-11406.9	-357.9	-4779.6
	-18.3	228.9	-1.6	-11365.9	-257.3	-4810.0
162.	20.3	-73.9	1.2	-11171.1	-4.4	7728.6
	20.1	-73.7	1.8	-11130.0	-5.5	7738.2
	22.6	-74.5	-0.1	-11258.9	-8.0	7707.8
	22.4	-74.2	0.5	-11217.9	-9.2	7717.4
	22.8	-74.3	0.2	-11238.1	-3.4	7712.4
	22.7	-74.1	0.8	-11197.1	-4.6	7722.1
	25.1	-74.9	-1.1	-11326.0	-7.0	7691.6
	25.0	-74.7	-0.5	-11284.9	-8.2	7701.2
	-23.0	-73.4	0.0	-11252.1	7.7	7713.3
	-23.1	-73.2	0.7	-11211.0	6.5	7722.9
	-20.7	-74.0	-1.3	-11339.9	4.1	7692.5
	-20.8	-73.8	-0.6	-11298.9	2.9	7702.1
	-20.4	-73.9	-0.9	-11319.1	8.6	7697.1
	-20.5	-73.6	-0.3	-11278.1	7.5	7706.8
	-18.1	-74.4	-2.2	-11406.9	5.0	7676.3
	-18.3	-74.2	-1.6	-11365.9	3.8	7685.9
323.	20.3	-377.0	1.2	-11171.1	-195.9	-28726.8
	20.1	-376.8	1.8	-11130.0	-298.8	-28677.2
	22.6	-377.6	-0.1	-11258.9	16.6	-28837.6
	22.4	-377.3	0.5	-11217.9	-86.3	-28788.0
	22.8	-377.4	0.2	-11238.1	-36.2	-28813.4
	22.7	-377.2	0.8	-11197.1	-139.0	-28763.8
	25.1	-378.0	-1.1	-11326.0	176.4	-28924.2
	25.0	-377.8	-0.5	-11284.9	73.5	-28874.6
	-23.0	-376.5	0.0	-11252.1	-3.2	-28647.0
	-23.1	-376.3	0.7	-11211.0	-106.0	-28597.4
	-20.7	-377.1	-1.3	-11339.9	209.3	-28757.8
	-20.8	-376.8	-0.6	-11298.9	106.5	-28708.2
	-20.4	-377.0	-0.9	-11319.1	156.6	-28733.6
	-20.5	-376.7	-0.3	-11278.1	53.7	-28684.0
	-18.1	-377.5	-2.2	-11406.9	369.1	-28844.4
	-18.3	-377.3	-1.6	-11365.9	266.3	-28794.8
Asta	202	nod1	104	101		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	46.3	262.8	1.2	-396.2	192.4	-9797.5
	46.1	263.1	1.9	-351.1	300.7	-9846.0
	53.2	262.2	0.0	-492.0	-5.4	-9692.4
	53.0	262.5	0.7	-446.9	102.9	-9740.9
	51.4	262.4	0.2	-469.4	30.6	-9717.1
	51.1	262.6	0.9	-424.3	138.9	-9765.5
	58.3	261.7	-1.0	-565.2	-167.2	-9612.0
	58.1	262.0	-0.3	-520.1	-58.9	-9660.4
	-54.8	262.5	-0.1	-486.5	-8.1	-9728.0
	-55.0	262.7	0.6	-441.5	100.2	-9776.4
	-47.8	261.8	-1.3	-582.3	-205.8	-9622.9
	-48.1	262.1	-0.6	-537.2	-97.6	-9671.3
	-49.7	262.0	-1.1	-559.8	-169.9	-9647.5
	-49.9	262.3	-0.4	-514.7	-61.6	-9696.0
	-42.8	261.3	-2.3	-655.5	-367.7	-9542.4
	-43.0	261.6	-1.6	-610.5	-259.4	-9590.9
162.	46.3	-40.3	1.2	-396.2	-8.8	8187.4
	46.1	-40.0	1.9	-351.1	-8.2	8186.5
	53.2	-41.0	0.0	-492.0	-2.6	8188.9
	53.0	-40.7	0.7	-446.9	-1.9	8188.1
	51.4	-40.8	0.2	-469.4	-11.1	8188.2
	51.1	-40.5	0.9	-424.3	-10.4	8187.3
	58.3	-41.5	-1.0	-565.2	-4.9	8189.7
	58.1	-41.2	-0.3	-520.1	-4.2	8188.9
	-54.8	-40.7	-0.1	-486.5	5.4	8202.2
	-55.0	-40.4	0.6	-441.5	6.1	8201.3
	-47.8	-41.4	-1.3	-582.3	11.7	8203.7
	-48.1	-41.1	-0.6	-537.2	12.3	8202.9
	-49.7	-41.2	-1.1	-559.8	3.2	8203.0
	-49.9	-40.9	-0.4	-514.7	3.8	8202.1
	-42.8	-41.9	-2.3	-655.5	9.4	8204.5
	-43.0	-41.6	-1.6	-610.5	10.1	8203.7
323.	46.3	-343.5	1.2	-396.2	-199.9	-22842.1
	46.1	-343.2	1.9	-351.1	-306.8	-22795.3
	53.2	-344.2	0.0	-492.0	-2.4	-22945.0
	53.0	-343.9	0.7	-446.9	-109.4	-22898.2
	51.4	-344.0	0.2	-469.4	-42.6	-22920.9
	51.1	-343.7	0.9	-424.3	-149.5	-22874.1
	58.3	-344.7	-1.0	-565.2	154.9	-23023.9
	58.1	-344.4	-0.3	-520.1	48.0	-22977.1
	-54.8	-343.9	-0.1	-486.5	21.5	-22903.3
	-55.0	-343.6	0.6	-441.5	-85.4	-22856.5
	-47.8	-344.6	-1.3	-582.3	218.9	-23006.2
	-48.1	-344.3	-0.6	-537.2	112.0	-22959.5
	-49.7	-344.4	-1.1	-559.8	178.8	-22982.1
	-49.9	-344.1	-0.4	-514.7	71.9	-22935.3
	-42.8	-345.1	-2.3	-655.5	376.3	-23085.1

	-43.0	-344.8	-1.6	-610.5	269.3	-23038.3
Asta	203	nod1	106	104		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-60.9	272.0	1.0	-159.4	155.1	-10689.4
	-60.4	272.4	1.5	-113.1	249.7	-10757.0
	-80.4	271.1	-0.7	-260.3	-99.3	-10537.4
	-79.9	271.5	-0.1	-214.0	-4.7	-10605.0
	-58.3	271.4	0.1	-234.7	18.2	-10580.7
	-57.7	271.8	0.7	-188.4	112.8	-10648.4
	-77.8	270.5	-1.5	-335.7	-236.1	-10428.7
	-77.3	270.9	-0.9	-289.3	-141.6	-10496.3
	65.7	271.5	0.3	-250.1	42.4	-10604.6
	66.2	271.9	0.9	-203.8	137.0	-10672.2
	46.1	270.6	-1.3	-351.0	-211.9	-10452.5
	46.7	271.0	-0.7	-304.7	-117.4	-10520.1
	68.3	270.8	-0.6	-325.5	-94.4	-10495.9
	68.8	271.2	0.0	-279.1	0.1	-10563.5
	48.8	269.9	-2.2	-426.4	-348.8	-10343.8
	49.3	270.3	-1.6	-380.0	-254.2	-10411.5
162.	-60.9	-31.1	1.0	-159.4	4.4	8792.8
	-60.4	-30.7	1.5	-113.1	5.1	8791.6
	-80.4	-32.0	-0.7	-260.3	12.6	8797.5
	-79.9	-31.6	-0.1	-214.0	13.4	8796.3
	-58.3	-31.7	0.1	-234.7	3.4	8794.4
	-57.7	-31.3	0.7	-188.4	4.2	8793.1
	-77.8	-32.6	-1.5	-335.7	11.6	8799.1
	-77.3	-32.2	-0.9	-289.3	12.4	8797.8
	65.7	-31.6	0.3	-250.1	-10.5	8777.2
	66.2	-31.2	0.9	-203.8	-9.7	8775.9
	46.1	-32.5	-1.3	-351.0	-2.2	8781.8
	46.7	-32.1	-0.7	-304.7	-1.5	8780.6
	68.3	-32.3	-0.6	-325.5	-11.4	8778.7
	68.8	-31.9	0.0	-279.1	-10.7	8777.5
	48.8	-33.2	-2.2	-426.4	-3.2	8783.4
	49.3	-32.8	-1.6	-380.0	-2.4	8782.1
323.	-60.9	-334.2	1.0	-159.4	-153.4	-20730.7
	-60.4	-333.7	1.5	-113.1	-246.4	-20665.6
	-80.4	-335.1	-0.7	-260.3	111.3	-20874.3
	-79.9	-334.7	-0.1	-214.0	18.3	-20809.2
	-58.3	-334.8	0.1	-234.7	-18.4	-20836.2
	-57.7	-334.4	0.7	-188.4	-111.5	-20771.2
	-77.8	-335.7	-1.5	-335.7	246.3	-20979.8
	-77.3	-335.3	-0.9	-289.3	153.2	-20914.7
	65.7	-334.7	0.3	-250.1	-50.2	-20824.7
	66.2	-334.3	0.9	-203.8	-143.3	-20759.6
	46.1	-335.6	-1.3	-351.0	214.5	-20968.2
	46.7	-335.2	-0.7	-304.7	121.4	-20903.1
	68.3	-335.4	-0.6	-325.5	84.7	-20930.2
	68.8	-335.0	0.0	-279.1	-8.3	-20865.1
	48.8	-336.3	-2.2	-426.4	349.4	-21073.8
	49.3	-335.9	-1.6	-380.0	256.4	-21008.7
Asta	204	nod1	107	106		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-44.0	346.6	1.0	3387.3	163.5	-28105.7
	-43.2	346.7	1.6	3426.6	257.6	-28115.6
	-51.9	346.3	-0.4	3302.1	-56.5	-28071.1
	-51.0	346.4	0.2	3341.5	37.6	-28081.0
	-43.5	346.4	0.1	3323.2	24.1	-28092.9
	-42.7	346.5	0.7	3362.6	118.2	-28102.8
	-51.3	346.2	-1.2	3238.1	-195.9	-28058.3
	-50.5	346.3	-0.6	3277.4	-101.8	-28068.2
	45.2	347.4	0.1	3310.6	20.9	-28254.3
	46.0	347.5	0.7	3349.9	115.0	-28264.2
	37.4	347.1	-1.2	3225.4	-199.0	-28219.7
	38.2	347.2	-0.6	3264.7	-104.9	-28229.6
	45.7	347.2	-0.7	3246.5	-118.5	-28241.4
	46.6	347.3	-0.2	3285.9	-24.4	-28251.3
	37.9	347.0	-2.1	3161.3	-338.5	-28206.9
	38.8	347.1	-1.5	3200.7	-244.4	-28216.8
162.	-44.0	43.5	1.0	3387.3	-0.2	3422.8
	-43.2	43.6	1.6	3426.6	-1.4	3427.9
	-51.9	43.2	-0.4	3302.1	2.1	3412.1
	-51.0	43.3	0.2	3341.5	0.9	3417.3
	-43.5	43.4	0.1	3323.2	1.8	3414.1
	-42.7	43.4	0.7	3362.6	0.7	3419.3
	-51.3	43.1	-1.2	3238.1	4.1	3403.4
	-50.5	43.2	-0.6	3277.4	2.9	3408.6
	45.2	44.3	0.1	3310.6	-2.2	3402.2
	46.0	44.4	0.7	3349.9	-3.4	3407.4
	37.4	44.0	-1.2	3225.4	0.1	3391.5
	38.2	44.1	-0.6	3264.7	-1.1	3396.7
	45.7	44.2	-0.7	3246.5	-0.1	3393.6
	46.6	44.2	-0.2	3285.9	-1.3	3398.7
	37.9	43.9	-2.1	3161.3	2.2	3382.9
	38.8	44.0	-1.5	3200.7	1.0	3388.0
323.	-44.0	-259.6	1.0	3387.3	-164.8	-14046.9
	-43.2	-259.5	1.6	3426.6	-261.3	-14026.7
	-51.9	-259.9	-0.4	3302.1	57.1	-14101.0
	-51.0	-259.8	0.2	3341.5	-39.4	-14080.8

	-43.5	-259.7	0.1	3323.2	-21.2	-14077.1
	-42.7	-259.6	0.7	3362.6	-117.7	-14056.9
	-51.3	-260.0	-1.2	3238.1	200.6	-14131.2
	-50.5	-259.9	-0.6	3277.4	104.1	-14111.0
	45.2	-258.8	0.1	3310.6	-21.7	-13935.1
	46.0	-258.7	0.7	3349.9	-118.2	-13915.0
	37.4	-259.1	-1.2	3225.4	200.1	-13989.3
	38.2	-259.0	-0.6	3264.7	103.6	-13969.1
	45.7	-258.9	-0.7	3246.5	121.8	-13965.3
	46.6	-258.8	-0.2	3285.9	25.3	-13945.1
	37.9	-259.2	-2.1	3161.3	343.7	-14019.5
	38.8	-259.1	-1.5	3200.7	247.2	-13999.3
Asta	205	nod1	177	107		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-36.0	1357.7	1.4	-8837.1	238.6	-81388.6
	-35.3	1357.7	2.1	-8669.5	367.1	-81419.3
	-40.1	1357.6	-0.3	-9199.5	-47.5	-81311.6
	-39.3	1357.6	0.4	-9031.9	81.0	-81342.3
	-36.0	1357.8	0.2	-9110.0	40.6	-81341.7
	-35.2	1357.8	1.0	-8942.5	169.1	-81372.4
	-40.0	1357.7	-1.4	-9472.5	-245.5	-81264.8
	-39.2	1357.7	-0.7	-9304.9	-117.0	-81295.5
	33.7	1359.0	0.1	-9168.1	6.5	-81547.2
	34.5	1359.0	0.8	-9000.5	135.0	-81577.9
	29.7	1358.9	-1.6	-9530.5	-279.6	-81470.3
	30.4	1358.9	-0.9	-9362.9	-151.1	-81500.9
	33.8	1359.1	-1.1	-9441.1	-191.6	-81500.4
	34.5	1359.1	-0.3	-9273.5	-63.0	-81531.1
	29.7	1359.0	-2.7	-9803.5	-477.6	-81423.4
	30.5	1359.0	-2.0	-9635.9	-349.1	-81454.1
162.	-36.0	119.9	1.4	-8837.1	20.6	38202.9
	-35.3	119.9	2.1	-8669.5	29.7	38166.4
	-40.1	119.8	-0.3	-9199.5	0.3	38281.5
	-39.3	119.8	0.4	-9031.9	9.4	38245.0
	-36.0	120.0	0.2	-9110.0	6.4	38262.4
	-35.2	120.0	1.0	-8942.5	15.5	38226.0
	-40.0	119.9	-1.4	-9472.5	-13.9	38341.0
	-39.2	119.9	-0.7	-9304.9	-4.8	38304.6
	33.7	121.2	0.1	-9168.1	-2.6	38271.7
	34.5	121.2	0.8	-9000.5	6.5	38235.2
	29.7	121.1	-1.6	-9530.5	-22.9	38350.3
	30.4	121.1	-0.9	-9362.9	-13.8	38313.8
	33.8	121.3	-1.1	-9441.1	-16.8	38331.2
	34.5	121.3	-0.3	-9273.5	-7.6	38294.8
	29.7	121.2	-2.7	-9803.5	-37.1	38409.8
	30.5	121.2	-2.0	-9635.9	-27.9	38373.4
323.	-36.0	-1127.2	1.4	-8837.1	-198.2	-43121.7
	-35.3	-1127.2	2.1	-8669.5	-308.4	-43163.9
	-40.1	-1127.3	-0.3	-9199.5	47.3	-43038.5
	-39.3	-1127.3	0.4	-9031.9	-62.9	-43080.8
	-36.0	-1127.1	0.2	-9110.0	-28.5	-43049.4
	-35.2	-1127.2	1.0	-8942.5	-138.7	-43091.7
	-40.0	-1127.2	-1.4	-9472.5	217.0	-42966.3
	-39.2	-1127.2	-0.7	-9304.9	106.8	-43008.6
	33.7	-1125.9	0.1	-9168.1	-11.0	-42858.1
	34.5	-1126.0	0.8	-9000.5	-121.2	-42900.3
	29.7	-1126.0	-1.6	-9530.5	234.5	-42775.0
	30.4	-1126.1	-0.9	-9362.9	124.3	-42817.2
	33.8	-1125.8	-1.1	-9441.1	158.7	-42785.8
	34.5	-1125.9	-0.3	-9273.5	48.5	-42828.1
	29.7	-1125.9	-2.7	-9803.5	404.2	-42702.7
	30.5	-1126.0	-2.0	-9635.9	294.0	-42745.0
Asta	206	nod1	115	177		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-19.1	1232.4	1.8	36237.3	303.3	-62910.5
	-18.7	1232.3	2.8	36512.4	460.6	-62863.9
	-20.1	1232.5	-0.2	35642.8	-38.4	-63001.2
	-19.7	1232.5	0.7	35917.9	118.8	-62954.5
	-19.6	1232.6	0.3	35788.9	52.1	-62991.8
	-19.2	1232.5	1.3	36064.0	209.4	-62945.1
	-20.6	1232.7	-1.8	35194.4	-289.6	-63082.4
	-20.2	1232.6	-0.8	35469.5	-132.4	-63035.8
	18.5	1234.1	0.1	35699.0	16.3	-63271.3
	18.9	1234.1	1.1	35974.1	173.5	-63224.6
	17.5	1234.3	-2.0	35104.5	-325.5	-63361.9
	17.9	1234.2	-1.0	35379.6	-168.2	-63315.3
	18.1	1234.3	-1.4	35250.6	-234.9	-63352.5
	18.5	1234.2	-0.5	35525.7	-77.7	-63305.9
	17.1	1234.5	-3.5	34656.1	-576.7	-63443.2
	17.5	1234.4	-2.5	34931.2	-419.4	-63396.5
162.	-19.1	8.5	1.8	36237.3	5.8	37505.7
	-18.7	8.4	2.8	36512.4	8.6	37539.4
	-20.1	8.7	-0.2	35642.8	-0.4	37433.9
	-19.7	8.6	0.7	35917.9	2.4	37467.6
	-19.6	8.7	0.3	35788.9	1.3	37450.2
	-19.2	8.6	1.3	36064.0	4.1	37483.9
	-20.6	8.8	-1.8	35194.4	-4.9	37378.4
	-20.2	8.7	-0.8	35469.5	-2.1	37412.1
	18.5	10.3	0.1	35699.0	-1.9	37421.2

	18.9	10.2	1.1	35974.1	0.9	37454.9
	17.5	10.4	-2.0	35104.5	-8.1	37349.3
	17.9	10.3	-1.0	35379.6	-5.3	37383.0
	18.1	10.4	-1.4	35250.6	-6.4	37365.6
	18.5	10.3	-0.5	35525.7	-3.7	37399.3
	17.1	10.6	-3.5	34656.1	-12.6	37293.8
	17.5	10.5	-2.5	34931.2	-9.8	37327.5
323.	-19.1	-1223.9	1.8	36237.3	-292.0	-60613.2
	-18.7	-1224.0	2.8	36512.4	-443.6	-60592.5
	-20.1	-1223.7	-0.2	35642.8	37.4	-60670.8
	-19.7	-1223.8	0.7	35917.9	-114.2	-60650.1
	-19.6	-1223.7	0.3	35788.9	-49.8	-60643.0
	-19.2	-1223.8	1.3	36064.0	-201.5	-60622.3
	-20.6	-1223.6	-1.8	35194.4	279.6	-60700.7
	-20.2	-1223.6	-0.8	35469.5	127.9	-60679.9
	18.5	-1222.1	0.1	35699.0	-19.9	-60402.9
	18.9	-1222.2	1.1	35974.1	-171.5	-60382.2
	17.5	-1222.0	-2.0	35104.5	309.6	-60460.5
	17.9	-1222.1	-1.0	35379.6	157.9	-60439.8
	18.1	-1222.0	-1.4	35250.6	222.3	-60432.7
	18.5	-1222.0	-0.5	35525.7	70.6	-60412.0
	17.1	-1221.8	-3.5	34656.1	551.7	-60490.4
	17.5	-1221.9	-2.5	34931.2	400.1	-60469.7
Asta	207	nod	178	171		
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ
0.	-20.4	839.9	-2.5	119984.7	-158.2	146354.4
	-19.8	833.1	-3.5	120189.9	-219.8	146552.2
	-24.0	854.5	-0.3	119539.5	-34.0	145927.8
	-23.4	847.7	-1.4	119744.7	-95.6	146125.6
	-18.9	851.0	-0.5	119651.0	-42.1	146031.7
	-18.3	844.2	-1.6	119856.3	-103.7	146229.5
	-22.5	865.6	1.7	119205.8	82.1	145605.1
	-21.9	858.8	0.6	119411.1	20.5	145802.9
	15.0	853.8	0.3	119583.4	24.7	145942.5
	15.6	847.0	-0.7	119788.6	-36.8	146140.3
	11.4	868.4	2.5	119138.2	148.9	145515.9
	12.0	861.6	1.4	119343.4	87.4	145713.7
	16.5	864.9	2.3	119249.7	140.8	145619.8
	17.1	858.1	1.2	119454.9	79.3	145817.6
	12.9	879.6	4.4	118804.5	265.0	145193.2
	13.5	872.8	3.4	119009.7	203.5	145391.0
58.	-20.4	-95.4	-2.5	119984.7	-14.5	166482.9
	-19.8	-102.2	-3.5	120189.9	-14.2	166283.8
	-24.0	-80.7	-0.3	119539.5	-18.8	166912.0
	-23.4	-87.5	-1.4	119744.7	-18.5	166712.9
	-18.9	-84.3	-0.5	119651.0	-12.4	166808.4
	-18.3	-91.1	-1.6	119856.3	-12.0	166609.3
	-22.5	-69.6	1.7	119205.8	-16.6	167237.6
	-21.9	-76.4	0.6	119411.1	-16.3	167038.5
	15.0	-81.5	0.3	119583.4	8.7	166883.3
	15.6	-88.3	-0.7	119788.6	9.0	166684.2
	11.4	-66.8	2.5	119138.2	4.5	167312.5
	12.0	-73.6	1.4	119343.4	4.8	167113.4
	16.5	-70.4	2.3	119249.7	10.9	167208.9
	17.1	-77.2	1.2	119454.9	11.2	167009.8
	12.9	-55.7	4.4	118804.5	6.6	167638.0
	13.5	-62.5	3.4	119009.7	7.0	167438.9
117.	-20.4	-703.5	-2.5	119984.7	130.1	141584.0
	-19.8	-710.3	-3.5	120189.9	192.3	140988.0
	-24.0	-688.8	-0.3	119539.5	1.3	142868.9
	-23.4	-695.6	-1.4	119744.7	63.5	142272.9
	-18.9	-692.4	-0.5	119651.0	18.4	142557.8
	-18.3	-699.2	-1.6	119856.3	80.6	141961.8
	-22.5	-677.7	1.7	119205.8	-110.4	143842.7
	-21.9	-684.5	0.6	119411.1	-48.2	143246.7
	15.0	-689.6	0.3	119583.4	-12.2	142796.7
	15.6	-696.4	-0.7	119788.6	50.0	142200.7
	11.4	-674.9	2.5	119138.2	-141.0	144081.6
	12.0	-681.7	1.4	119343.4	-78.8	143485.6
	16.5	-678.5	2.3	119249.7	-123.9	143770.5
	17.1	-685.3	1.2	119454.9	-61.7	143174.5
	12.9	-663.8	4.4	118804.5	-252.7	145055.4
	13.5	-670.6	3.4	119009.7	-190.5	144459.4
Asta	208	nod	171	108		
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ
0.	-23.2	-1194.1	0.8	26647.8	27.0	189561.1
	-22.5	-1196.9	1.4	26392.4	48.9	189445.0
	-28.1	-1188.0	-0.4	27202.2	-21.8	189811.2
	-27.4	-1190.8	0.2	26946.8	0.1	189695.1
	-20.9	-1189.4	0.0	27062.9	-7.9	189750.5
	-20.2	-1192.2	0.5	26807.4	14.1	189634.4
	-25.7	-1183.3	-1.2	27617.3	-56.7	190000.6
	-25.0	-1186.1	-0.7	27361.8	-34.8	189884.6
	17.2	-1187.9	0.1	27144.5	-1.5	189803.4
	17.9	-1190.7	0.6	26889.1	20.4	189687.4
	12.3	-1181.8	-1.1	27698.9	-50.3	190053.6
	13.0	-1184.6	-0.6	27443.5	-28.4	189937.5
	19.5	-1183.2	-0.8	27559.6	-36.4	189992.9
	20.2	-1186.0	-0.2	27304.2	-14.4	189876.8

103.	14.7	-1177.1	-1.9	28114.0	-85.2	190243.0
	15.4	-1179.9	-1.4	27858.6	-63.3	190126.9
	-23.2	-3087.0	0.8	26647.8	-56.9	-31706.0
	-22.5	-3089.8	1.4	26392.4	-90.7	-32116.3
	-28.1	-3080.9	-0.4	27202.2	18.0	-30826.4
	-27.4	-3083.7	0.2	26946.8	-15.8	-31236.7
	-20.9	-3082.3	0.0	27062.9	-4.9	-31033.3
	-20.2	-3085.2	0.5	26807.4	-38.7	-31443.5
	-25.7	-3076.2	-1.2	27617.3	70.1	-30153.6
	-25.0	-3079.1	-0.7	27361.8	36.2	-30563.9
	17.2	-3080.8	0.1	27144.5	-10.7	-30823.9
	17.9	-3083.6	0.6	26889.1	-44.6	-31234.1
	12.3	-3074.7	-1.1	27698.9	64.2	-29944.2
	13.0	-3077.5	-0.6	27443.5	30.4	-30354.5
	19.5	-3076.1	-0.8	27559.6	41.3	-30151.1
	20.2	-3079.0	-0.2	27304.2	7.5	-30561.4
	14.7	-3070.0	-1.9	28114.0	116.2	-29271.5
	15.4	-3072.9	-1.4	27858.6	82.4	-29681.8
	-23.2	-4982.2	0.8	26647.8	-140.6	-448785.3
	-22.5	-4985.1	1.4	26392.4	-230.3	-449489.8
207.	-28.1	-4976.2	-0.4	27202.2	58.0	-447276.2
	-27.4	-4979.0	0.2	26946.8	-31.6	-447980.6
	-20.9	-4977.6	0.0	27062.9	-1.7	-447629.2
	-20.2	-4980.4	0.5	26807.4	-91.3	-448333.7
	-25.7	-4971.5	-1.2	27617.3	197.0	-446120.1
	-25.0	-4974.3	-0.7	27361.8	107.3	-446824.6
	17.2	-4976.1	0.1	27144.5	-20.1	-447263.3
	17.9	-4978.9	0.6	26889.1	-109.7	-447967.8
	12.3	-4970.0	-1.1	27698.9	178.6	-445754.2
	13.0	-4972.8	-0.6	27443.5	89.0	-446458.6
	19.5	-4971.4	-0.8	27559.6	118.9	-446107.3
	20.2	-4974.2	-0.2	27304.2	29.3	-446811.7
	14.7	-4965.3	-1.9	28114.0	317.5	-444598.1
	15.4	-4968.1	-1.4	27858.6	227.9	-445302.6
Asta PROGR. 0.	209	nod	108	105		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-19.9	662.4	1.1	-15737.4	173.6	-95157.5
	-19.3	654.9	1.7	-15700.3	272.8	-93918.6
	-21.5	678.3	-0.3	-15817.2	-50.6	-97815.1
	-20.9	670.9	0.3	-15780.1	48.7	-96576.2
	-19.8	674.6	0.1	-15798.2	22.3	-97187.5
	-19.2	667.1	0.7	-15761.0	121.6	-95948.7
	-21.5	690.5	-1.3	-15878.0	-201.8	-99845.1
	-20.8	683.1	-0.6	-15840.8	-102.6	-98606.3
	20.6	678.1	0.2	-15812.6	27.4	-97786.1
	21.2	670.7	0.8	-15775.5	126.6	-96547.3
	19.0	694.1	-1.2	-15892.4	-196.8	-100443.7
	19.6	686.7	-0.6	-15855.3	-97.6	-99204.9
	20.7	690.3	-0.8	-15873.4	-123.9	-99816.2
	21.3	682.9	-0.1	-15836.2	-24.7	-98577.3
	19.0	706.3	-2.1	-15953.2	-348.1	-102473.8
	19.7	698.8	-1.5	-15916.0	-248.8	-101234.9
162.	-19.9	359.3	1.1	-15737.4	4.5	-12581.7
	-19.3	351.8	1.7	-15700.3	4.7	-12544.8
	-21.5	375.2	-0.3	-15817.2	3.2	-12660.9
	-20.9	367.8	0.3	-15780.1	3.4	-12624.1
	-19.8	371.5	0.1	-15798.2	4.5	-12642.1
	-19.2	364.0	0.7	-15761.0	4.8	-12605.3
	-21.5	387.4	-1.3	-15878.0	3.2	-12721.4
	-20.8	380.0	-0.6	-15840.8	3.4	-12684.5
	20.6	375.0	0.2	-15812.6	-2.8	-12662.8
	21.2	367.6	0.8	-15775.5	-2.6	-12625.9
	19.0	391.0	-1.2	-15892.4	-4.2	-12742.0
	19.6	383.6	-0.6	-15855.3	-3.9	-12705.2
	20.7	387.2	-0.8	-15873.4	-2.8	-12723.2
	21.3	379.8	-0.1	-15836.2	-2.5	-12686.4
	19.0	403.2	-2.1	-15953.2	-4.1	-12802.5
	19.7	395.7	-1.5	-15916.0	-3.9	-12765.6
323.	-19.9	56.2	1.1	-15737.4	-167.9	20999.0
	-19.3	48.8	1.7	-15700.3	-266.7	19833.9
	-21.5	72.1	-0.3	-15817.2	54.0	23498.0
	-20.9	64.7	0.3	-15780.1	-44.8	22333.0
	-19.8	68.4	0.1	-15798.2	-16.5	22908.2
	-19.2	60.9	0.7	-15761.0	-115.3	21743.1
	-21.5	84.3	-1.3	-15878.0	205.4	25407.2
	-20.8	76.9	-0.6	-15840.8	106.6	24242.1
	20.6	71.9	0.2	-15812.6	-30.2	23465.5
	21.2	64.5	0.8	-15775.5	-128.9	22300.4
	19.0	87.9	-1.2	-15892.4	191.7	25964.5
	19.6	80.5	-0.6	-15855.3	93.0	24799.4
	20.7	84.1	-0.8	-15873.4	121.2	25374.6
	21.3	76.7	-0.1	-15836.2	22.4	24209.5
	19.0	100.1	-2.1	-15953.2	343.1	27873.7
	19.7	92.6	-1.5	-15916.0	244.3	26708.6
Asta PROGR. 0.	210	nod	105	103		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-27.3	263.0	0.9	-1005.9	147.7	-8076.0
	-26.2	255.9	1.5	-959.4	243.6	-6933.0
	-31.2	278.2	-0.6	-1106.7	-100.9	-10528.7

	-30.1	271.2	-0.1	-1060.2	-5.0	-9385.7
	-24.9	274.6	0.1	-1081.6	8.5	-9947.2
	-23.8	267.5	0.7	-1035.1	104.4	-8804.2
	-28.8	289.8	-1.5	-1182.4	-240.0	-12400.0
	-27.7	282.8	-0.9	-1135.9	-144.1	-11256.9
	23.2	277.8	0.3	-1097.2	40.1	-10471.1
	24.4	270.7	0.8	-1050.7	136.1	-9328.1
	19.3	293.1	-1.3	-1198.0	-208.4	-12923.8
	20.5	286.0	-0.7	-1151.5	-112.5	-11780.8
	25.7	289.4	-0.6	-1172.9	-99.0	-12342.3
	26.8	282.4	0.0	-1126.4	-3.1	-11199.3
	21.8	304.7	-2.2	-1273.7	-347.6	-14795.1
	22.9	297.6	-1.6	-1227.2	-251.6	-13652.1
162.	-27.3	-40.1	0.9	-1005.9	5.8	9946.4
	-26.2	-47.2	1.5	-959.4	6.1	9943.0
	-31.2	-24.9	-0.6	-1106.7	11.8	9954.1
	-30.1	-31.9	-0.1	-1060.2	12.1	9950.7
	-24.9	-28.5	0.1	-1081.6	5.3	9951.4
	-23.8	-35.6	0.7	-1035.1	5.6	9948.0
	-28.8	-13.2	-1.5	-1182.4	11.3	9959.1
	-27.7	-20.3	-0.9	-1135.9	11.6	9955.7
	23.2	-25.3	0.3	-1097.2	-9.8	9941.5
	24.4	-32.3	0.8	-1050.7	-9.4	9938.1
	19.3	-10.0	-1.3	-1198.0	-3.8	9949.2
	20.5	-17.1	-0.7	-1151.5	-3.4	9945.8
	25.7	-13.6	-0.6	-1172.9	-10.3	9946.5
	26.8	-20.7	0.0	-1126.4	-9.9	9943.1
	21.8	1.6	-2.2	-1273.7	-4.3	9954.2
	22.9	-5.5	-1.6	-1227.2	-3.9	9950.8
323.	-27.3	-343.2	0.9	-1005.9	-150.5	-21031.1
	-26.2	-350.3	1.5	-959.4	-245.7	-22180.9
	-31.2	-327.9	-0.6	-1106.7	105.8	-18563.0
	-30.1	-335.0	-0.1	-1060.2	10.6	-19712.8
	-24.9	-331.6	0.1	-1081.6	-12.4	-19149.9
	-23.8	-338.7	0.7	-1035.1	-107.6	-20299.7
	-28.8	-316.3	-1.5	-1182.4	243.9	-16681.9
	-27.7	-323.4	-0.9	-1135.9	148.7	-17831.6
	23.2	-328.3	0.3	-1097.2	-41.1	-18636.2
	24.4	-335.4	0.8	-1050.7	-136.3	-19786.0
	19.3	-313.1	-1.3	-1198.0	215.2	-16168.1
	20.5	-320.2	-0.7	-1151.5	120.0	-17317.9
	25.7	-316.7	-0.6	-1172.9	97.0	-16755.0
	26.8	-323.8	0.0	-1126.4	1.8	-17904.8
	21.8	-301.5	-2.2	-1273.7	353.3	-14286.9
	22.9	-308.6	-1.6	-1227.2	258.1	-15436.7
Asta	211	nod1	103	102		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-17.6	252.4	1.1	313.5	172.8	-8093.6
	-16.0	245.3	1.7	358.0	278.5	-6945.6
	-6.0	267.6	-0.1	218.3	-27.8	-10555.4
	-4.4	260.5	0.5	262.9	77.9	-9407.4
	-19.5	264.0	0.1	241.0	13.0	-9970.6
	-17.9	256.9	0.8	285.5	118.6	-8822.6
	-7.9	279.2	-1.1	145.8	-187.7	-12432.4
	-6.3	272.1	-0.5	190.4	-82.0	-11284.4
	7.6	267.1	0.1	224.9	18.0	-10471.1
	9.2	260.0	0.7	269.4	123.7	-9323.1
	19.2	282.3	-1.2	129.8	-182.6	-12933.0
	20.7	275.2	-0.5	174.3	-76.9	-11785.0
	5.7	278.7	-0.9	152.4	-141.8	-12348.1
	7.3	271.6	-0.3	196.9	-36.2	-11200.2
	17.3	293.9	-2.1	57.3	-342.5	-14810.0
	18.8	286.8	-1.5	101.8	-236.8	-13662.0
162.	-17.6	-50.8	1.1	313.5	-10.8	8210.5
	-16.0	-57.9	1.7	358.0	-10.1	8212.6
	-6.0	-35.6	-0.1	218.3	-5.6	8204.7
	-4.4	-42.7	0.5	262.9	-5.0	8206.8
	-19.5	-39.2	0.1	241.0	-12.8	8206.9
	-17.9	-46.3	0.8	285.5	-12.1	8209.0
	-7.9	-24.0	-1.1	145.8	-7.7	8201.2
	-6.3	-31.1	-0.5	190.4	-7.0	8203.3
	7.6	-36.1	0.1	224.9	7.8	8205.0
	9.2	-43.2	0.7	269.4	8.4	8207.1
	19.2	-20.9	-1.2	129.8	12.9	8199.3
	20.7	-28.0	-0.5	174.3	13.5	8201.4
	5.7	-24.5	-0.9	152.4	5.7	8201.5
	7.3	-31.6	-0.3	196.9	6.4	8203.6
	17.3	-9.3	-2.1	57.3	10.9	8195.7
	18.8	-16.4	-1.5	101.8	11.5	8197.8
323.	-17.6	-354.0	1.1	313.5	-182.2	-24511.2
	-16.0	-361.0	1.7	358.0	-286.6	-25654.9
	-6.0	-338.8	-0.1	218.3	19.1	-22060.4
	-4.4	-345.8	0.5	262.9	-85.2	-23204.2
	-19.5	-342.4	0.1	241.0	-26.4	-22641.3
	-17.9	-349.5	0.8	285.5	-130.8	-23785.0
	-7.9	-327.2	-1.1	145.8	174.9	-20190.5
	-6.3	-334.3	-0.5	190.4	70.6	-21334.3
	7.6	-339.3	0.1	224.9	-5.1	-22144.4
	9.2	-346.4	0.7	269.4	-109.4	-23288.2
	19.2	-324.1	-1.2	129.8	196.3	-19693.7

	20.7	-331.2	-0.5	174.3	91.9	-20837.4
	5.7	-327.7	-0.9	152.4	150.7	-20274.5
	7.3	-334.8	-0.3	196.9	46.4	-21418.3
	17.3	-312.5	-2.1	57.3	352.1	-17823.8
	18.8	-319.6	-1.5	101.8	247.7	-18967.5
Asta	212	nod	102	95		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2.2	214.5	1.0	11278.0	166.1	-2491.9
	-1.9	207.4	1.7	11319.9	269.4	-1346.2
	-1.2	230.0	-0.3	11188.4	-43.6	-4945.0
	-0.9	222.8	0.4	11230.3	59.7	-3799.4
	-1.0	226.3	0.1	11209.7	7.2	-4364.7
	-0.7	219.1	0.7	11251.6	110.5	-3219.1
	0.0	241.7	-1.2	11120.1	-202.5	-6817.9
	0.3	234.5	-0.6	11162.0	-99.3	-5672.2
	-1.3	229.4	0.1	11195.5	18.7	-4861.3
	-1.1	222.2	0.7	11237.4	122.0	-3715.6
	-0.3	244.8	-1.2	11105.9	-191.0	-7314.5
	-0.1	237.6	-0.6	11147.8	-87.7	-6168.8
	-0.1	241.2	-0.9	11127.2	-140.2	-6734.2
	0.1	234.0	-0.2	11169.1	-36.9	-5588.5
	0.9	256.6	-2.2	11037.6	-349.9	-9187.4
	1.1	249.4	-1.5	11079.5	-246.6	-8041.7
162.	-2.2	-88.5	1.0	11278.0	-5.4	7692.1
	-1.9	-95.7	1.7	11319.9	-6.4	7674.7
	-1.2	-73.1	-0.3	11188.4	-3.6	7729.4
	-0.9	-80.3	0.4	11230.3	-4.5	7712.0
	-1.0	-76.8	0.1	11209.7	-4.7	7720.4
	-0.7	-84.0	0.7	11251.6	-5.6	7703.0
	0.0	-61.4	-1.2	11120.1	-2.8	7757.7
	0.3	-68.6	-0.6	11162.0	-3.8	7740.3
	-1.3	-73.7	0.1	11195.5	3.8	7728.0
	-1.1	-80.9	0.7	11237.4	2.8	7710.6
	-0.3	-58.3	-1.2	11105.9	5.6	7765.3
	-0.1	-65.5	-0.6	11147.8	4.7	7747.9
	-0.1	-61.9	-0.9	11127.2	4.5	7756.2
	0.1	-69.1	-0.2	11169.1	3.6	7738.8
	0.9	-46.5	-2.2	11037.6	6.4	7793.5
	1.1	-53.7	-1.5	11079.5	5.4	7776.1
323.	-2.2	-391.6	1.0	11278.0	-172.9	-31119.0
	-1.9	-398.8	1.7	11319.9	-278.1	-32299.5
	-1.2	-376.2	-0.3	11188.4	39.2	-28591.2
	-0.9	-383.4	0.4	11230.3	-66.0	-29771.7
	-1.0	-379.9	0.1	11209.7	-12.5	-29189.6
	-0.7	-387.1	0.7	11251.6	-117.7	-30370.1
	0.0	-364.5	-1.2	11120.1	199.5	-26661.8
	0.3	-371.7	-0.6	11162.0	94.4	-27842.3
	-1.3	-376.8	0.1	11195.5	-13.9	-28677.9
	-1.1	-384.0	0.7	11237.4	-119.1	-29858.4
	-0.3	-361.4	-1.2	11105.9	198.2	-26150.1
	-0.1	-368.5	-0.6	11147.8	93.0	-27330.5
	-0.1	-365.0	-0.9	11127.2	146.5	-26748.5
	0.1	-372.2	-0.2	11169.1	41.3	-27929.0
	0.9	-349.6	-2.2	11037.6	358.6	-24220.7
	1.1	-356.8	-1.5	11079.5	253.4	-25401.1
Asta	213	nod	95	96		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	11.1	313.6	0.9	-871.7	161.3	-16677.0
	10.4	307.2	1.5	-840.2	256.3	-15571.2
	7.3	327.2	-0.2	-939.3	-36.7	-19045.4
	6.5	320.8	0.3	-907.8	58.3	-17939.6
	11.3	324.0	0.1	-923.4	9.8	-18484.4
	10.5	317.6	0.6	-891.8	104.8	-17378.6
	7.4	337.6	-1.1	-990.9	-188.2	-20852.8
	6.6	331.2	-0.5	-959.4	-93.2	-19747.0
	-6.1	326.8	0.1	-933.1	19.1	-18969.0
	-6.9	320.4	0.6	-901.6	114.1	-17863.2
	-10.0	340.4	-1.0	-1000.7	-178.9	-21337.4
	-10.8	334.0	-0.5	-969.2	-83.9	-20231.6
	-6.0	337.1	-0.8	-984.8	-132.4	-20776.4
	-6.7	330.8	-0.2	-953.2	-37.4	-19670.6
	-9.8	350.8	-1.9	-1052.3	-330.4	-23144.8
	-10.6	344.4	-1.3	-1020.8	-235.4	-22039.0
173.	11.1	-9.9	0.9	-871.7	3.6	9518.6
	10.4	-16.2	1.5	-840.2	4.8	9528.3
	7.3	3.7	-0.2	-939.3	-0.8	9497.9
	6.5	-2.6	0.3	-907.8	0.4	9507.7
	11.3	0.5	0.1	-923.4	0.7	9502.7
	10.5	-5.8	0.6	-891.8	1.8	9512.5
	7.4	14.1	-1.1	-990.9	-3.8	9482.0
	6.6	7.8	-0.5	-959.4	-2.6	9491.8
	-6.1	3.3	0.1	-933.1	1.3	9501.0
	-6.9	-3.0	0.6	-901.6	2.4	9510.8
	-10.0	16.9	-1.0	-1000.7	-3.1	9480.3
	-10.8	10.6	-0.5	-969.2	-2.0	9490.1
	-6.0	13.7	-0.8	-984.8	-1.7	9485.1
	-6.7	7.4	-0.2	-953.2	-0.5	9494.9
	-9.8	27.3	-1.9	-1052.3	-6.1	9464.4
	-10.6	21.0	-1.3	-1020.8	-4.9	9474.2

345.	11.1	-333.3	0.9	-871.7	-155.3	-20078.9
	10.4	-339.7	1.5	-840.2	-247.9	-21165.2
	7.3	-319.7	-0.2	-939.3	35.4	-17751.9
	6.5	-326.0	0.3	-907.8	-57.3	-18838.2
	11.3	-322.9	0.1	-923.4	-9.7	-18303.3
	10.5	-329.3	0.6	-891.8	-102.4	-19389.5
	7.4	-309.3	-1.1	-990.9	181.0	-15976.3
	6.6	-315.7	-0.5	-959.4	88.3	-17062.5
	-6.1	-320.1	0.1	-933.1	-16.9	-17821.8
	-6.9	-326.5	0.6	-901.6	-109.5	-18908.1
	-10.0	-306.5	-1.0	-1000.7	173.8	-15494.8
	-10.8	-312.9	-0.5	-969.2	81.1	-16581.1
	-6.0	-309.7	-0.8	-984.8	128.7	-16046.2
	-6.7	-316.1	-0.2	-953.2	36.1	-17132.4
	-9.8	-296.1	-1.9	-1052.3	319.4	-13719.2
	-10.6	-302.5	-1.3	-1020.8	226.7	-14805.4
Asta	214	nod1	96	90		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.9	317.4	1.4	12611.5	219.7	-16812.4
	0.9	311.2	2.1	13015.7	330.4	-15807.6
	1.0	330.8	-0.1	11747.4	-16.9	-18965.9
	1.0	324.6	0.6	12151.6	93.8	-17961.1
	0.9	327.7	0.2	11950.6	39.2	-18455.2
	0.9	321.4	1.0	12354.8	150.0	-17450.5
	1.0	341.0	-1.3	11086.6	-197.4	-20608.7
	1.0	334.8	-0.6	11490.8	-86.7	-19604.0
	-1.2	330.5	0.1	11810.2	7.3	-18914.8
	-1.2	324.3	0.8	12214.4	118.0	-17910.1
	-1.1	343.9	-1.5	10946.1	-229.3	-21068.3
	-1.1	337.6	-0.8	11350.3	-118.6	-20063.6
	-1.2	340.7	-1.1	11149.3	-173.1	-20557.7
	-1.2	334.5	-0.4	11553.5	-62.4	-19552.9
	-1.1	354.1	-2.7	10285.3	-409.8	-22711.2
	-1.2	347.8	-1.9	10689.5	-299.0	-21706.4
170.	0.9	-1.3	1.4	12611.5	-21.3	10060.0
	0.9	-7.5	2.1	13015.7	-33.2	10003.9
	1.0	12.1	-0.1	11747.4	3.6	10180.2
	1.0	5.8	0.6	12151.6	-8.3	10124.1
	0.9	8.9	0.2	11950.6	-2.2	10151.8
	0.9	2.7	1.0	12354.8	-14.1	10095.7
	1.0	22.3	-1.3	11086.6	22.6	10272.0
	1.0	16.0	-0.6	11490.8	10.8	10215.8
	-1.2	11.7	0.1	11810.2	-1.2	10176.3
	-1.2	5.5	0.8	12214.4	-13.0	10120.2
	-1.1	25.1	-1.5	10946.1	23.7	10296.5
	-1.1	18.9	-0.8	11350.3	11.9	10240.4
	-1.2	22.0	-1.1	11149.3	17.9	10268.1
	-1.2	15.7	-0.4	11553.5	6.1	10212.0
	-1.1	35.3	-2.7	10285.3	42.8	10388.3
	-1.2	29.1	-1.9	10689.5	30.9	10332.1
340.	0.9	-320.1	1.4	12611.5	-262.2	-17255.1
	0.9	-326.3	2.1	13015.7	-396.6	-18372.1
	1.0	-306.7	-0.1	11747.4	24.2	-14861.3
	1.0	-312.9	0.6	12151.6	-110.2	-15978.2
	0.9	-309.8	0.2	11950.6	-43.6	-15428.7
	0.9	-316.1	1.0	12354.8	-178.0	-16545.7
	1.0	-296.5	-1.3	11086.6	242.8	-13034.9
	1.0	-302.7	-0.6	11490.8	108.4	-14151.8
	-1.2	-307.0	0.1	11810.2	-9.7	-14920.1
	-1.2	-313.2	0.8	12214.4	-144.2	-16037.1
	-1.1	-293.6	-1.5	10946.1	276.6	-12526.2
	-1.1	-299.9	-0.8	11350.3	142.2	-13643.2
	-1.2	-296.8	-1.1	11149.3	208.8	-13093.7
	-1.2	-303.0	-0.4	11553.5	74.4	-14210.7
	-1.1	-283.4	-2.7	10285.3	495.2	-10699.8
	-1.2	-289.7	-1.9	10689.5	360.8	-11816.8
Asta	215	nod1	177	178		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-9.1	2739.2	1.3	-3338.5	251.5	-489014.4
	-8.8	2733.9	1.9	-3429.3	356.2	-487933.2
	-12.9	2750.6	0.3	-3145.4	30.2	-491356.2
	-12.6	2745.3	0.8	-3236.3	134.9	-490274.9
	-6.6	2747.8	0.4	-3188.9	73.1	-490773.8
	-6.2	2742.5	0.9	-3279.7	177.8	-489692.6
	-10.4	2759.2	-0.6	-2995.8	-148.2	-493115.6
	-10.0	2753.9	-0.1	-3086.6	-43.5	-492034.4
	9.8	2749.5	-0.3	-3112.7	-31.9	-491133.8
	10.1	2744.3	0.3	-3203.5	72.8	-490052.6
	5.9	2760.9	-1.3	-2919.6	-253.2	-493475.6
	6.3	2755.7	-0.8	-3010.4	-148.5	-492394.4
	12.3	2758.1	-1.2	-2963.0	-210.3	-492893.3
	12.6	2752.8	-0.6	-3053.9	-105.6	-491812.0
	8.5	2769.5	-2.2	-2770.0	-431.6	-495235.0
	8.8	2764.2	-1.7	-2860.8	-326.9	-494153.8
135.	-9.1	2486.1	1.3	-3338.5	71.0	-136307.6
	-8.8	2480.8	1.9	-3429.3	106.3	-135937.3
	-12.9	2497.5	0.3	-3145.4	-6.1	-137110.2
	-12.6	2492.2	0.8	-3236.3	29.1	-136740.0
	-6.6	2494.7	0.4	-3188.9	15.7	-136909.6

	-6.2	2489.4	0.9	-3279.7	50.9	-136539.4
	-10.4	2506.1	-0.6	-2995.8	-61.5	-137712.2
	-10.0	2500.8	-0.1	-3086.6	-26.3	-137342.0
	9.8	2496.4	-0.3	-3112.7	1.7	-137032.7
	10.1	2491.1	0.3	-3203.5	36.9	-136662.5
	5.9	2507.8	-1.3	-2919.6	-75.5	-137835.4
	6.3	2502.5	-0.8	-3010.4	-40.3	-137465.1
	12.3	2505.0	-1.2	-2963.0	-53.7	-137634.8
	12.6	2499.7	-0.6	-3053.9	-18.5	-137264.5
	8.5	2516.4	-2.2	-2770.0	-130.9	-138437.4
	8.8	2511.1	-1.7	-2860.8	-95.6	-138067.2
270.	-9.1	2233.0	1.3	-3338.5	-111.7	182227.4
	-8.8	2227.7	1.9	-3429.3	-145.9	181886.6
	-12.9	2244.4	0.3	-3145.4	-43.8	182963.9
	-12.6	2239.1	0.8	-3236.3	-78.0	182623.1
	-6.6	2241.5	0.4	-3188.9	-44.0	182782.8
	-6.2	2236.3	0.9	-3279.7	-78.2	182442.0
	-10.4	2252.9	-0.6	-2995.8	23.9	183519.2
	-10.0	2247.7	-0.1	-3086.6	-10.3	183178.5
	9.8	2243.3	-0.3	-3112.7	36.5	182896.5
	10.1	2238.0	0.3	-3203.5	2.2	182555.7
	5.9	2254.7	-1.3	-2919.6	104.4	183633.0
	6.3	2249.4	-0.8	-3010.4	70.1	183292.2
	12.3	2251.9	-1.2	-2963.0	104.1	183451.9
	12.6	2246.6	-0.6	-3053.9	69.9	183111.1
	8.5	2263.3	-2.2	-2770.0	172.0	184188.3
	8.8	2258.0	-1.7	-2860.8	137.8	183847.6
Asta	216	nod1	174	178		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-14.4	5076.9	0.6	-62242.7	157.5	-438834.6
	-14.0	5075.4	1.0	-61696.7	240.7	-438231.2
	-15.6	5080.2	-0.1	-63424.4	-21.9	-440124.0
	-15.1	5078.7	0.3	-62878.4	61.3	-439520.6
	-14.5	5079.5	0.1	-63131.7	22.5	-439827.7
	-14.1	5077.9	0.4	-62585.7	105.7	-439224.2
	-15.7	5082.7	-0.7	-64313.4	-157.0	-441117.1
	-15.3	5081.2	-0.3	-63767.4	-73.8	-440513.6
	10.4	5080.5	0.1	-63313.1	14.8	-440188.1
	10.8	5079.0	0.4	-62767.1	98.0	-439584.7
	9.2	5083.8	-0.7	-64494.8	-164.6	-441477.5
	9.6	5082.3	-0.3	-63948.8	-81.5	-440874.1
	10.2	5083.1	-0.5	-64202.2	-120.2	-441181.2
	10.7	5081.5	-0.2	-63656.2	-37.0	-440577.7
	9.1	5086.3	-1.2	-65383.8	-299.7	-442470.6
	9.5	5084.8	-0.9	-64837.8	-216.5	-441867.1
162.	-14.4	1778.6	0.6	-62242.7	53.9	113561.1
	-14.0	1777.1	1.0	-61696.7	81.8	113916.3
	-15.6	1781.9	-0.1	-63424.4	-7.7	112799.7
	-15.1	1780.4	0.3	-62878.4	20.2	113154.9
	-14.5	1781.2	0.1	-63131.7	10.6	112978.1
	-14.1	1779.6	0.4	-62585.7	38.5	113333.3
	-15.7	1784.4	-0.7	-64313.4	-51.0	112216.6
	-15.3	1782.9	-0.3	-63767.4	-23.1	112571.8
	10.4	1782.2	0.1	-63313.1	3.2	112791.1
	10.8	1780.7	0.4	-62767.1	31.1	113146.4
	9.2	1785.5	-0.7	-64494.8	-58.5	112029.7
	9.6	1784.0	-0.3	-63948.8	-30.5	112384.9
	10.2	1784.8	-0.5	-64202.2	-40.1	112208.1
	10.7	1783.2	-0.2	-63656.2	-12.2	112563.3
	9.1	1788.0	-1.2	-65383.8	-101.8	111446.6
	9.5	1786.5	-0.9	-64837.8	-73.8	111801.8
323.	-14.4	-1393.1	0.6	-62242.7	-50.6	143017.5
	-14.0	-1394.6	1.0	-61696.7	-77.9	143124.5
	-15.6	-1389.8	-0.1	-63424.4	5.8	142783.9
	-15.1	-1391.4	0.3	-62878.4	-21.5	142890.8
	-14.5	-1390.6	0.1	-63131.7	-2.2	142844.4
	-14.1	-1392.1	0.4	-62585.7	-29.5	142951.4
	-15.7	-1387.3	-0.7	-64313.4	54.2	142610.8
	-15.3	-1388.8	-0.3	-63767.4	26.9	142717.8
	10.4	-1389.5	0.1	-63313.1	-7.8	142828.4
	10.8	-1391.0	0.4	-62767.1	-35.1	142935.4
	9.2	-1386.2	-0.7	-64494.8	48.6	142594.7
	9.6	-1387.8	-0.3	-63948.8	21.3	142701.7
	10.2	-1387.0	-0.5	-64202.2	40.6	142655.3
	10.7	-1388.5	-0.2	-63656.2	13.3	142762.3
	9.1	-1383.7	-1.2	-65383.8	97.1	142421.7
	9.5	-1385.2	-0.9	-64837.8	69.8	142528.7
Asta	217	nod1	158	177		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	3.3	6944.1	0.7	1165.8	310.2	-596737.7
	3.1	6928.6	1.0	1693.7	464.6	-589746.9
	2.8	6977.8	0.0	30.5	-14.2	-611878.0
	2.6	6962.2	0.3	558.3	140.2	-604887.1
	4.2	6969.4	0.1	299.6	43.7	-608116.0
	4.0	6953.9	0.4	827.4	198.1	-601125.1
	3.6	7003.0	-0.6	-835.7	-280.7	-623256.2
	3.5	6987.5	-0.3	-307.9	-126.3	-616265.4
	-16.9	6974.6	0.1	131.7	21.3	-610451.3
	-17.1	6959.1	0.4	659.5	175.7	-603460.4

	-17.5	7008.2	-0.7	-1003.6	-303.1	-625591.5
	-17.6	6992.7	-0.3	-475.8	-148.6	-618600.7
	-16.0	6999.9	-0.5	-734.5	-245.2	-621829.5
	-16.2	6984.3	-0.2	-206.7	-90.8	-614838.7
	-16.6	7033.5	-1.3	-1869.9	-569.5	-636969.8
	-16.7	7018.0	-0.9	-1342.0	-415.1	-629978.9
423.	3.3	-355.3	0.7	1165.8	22.3	795768.8
	3.1	-370.8	1.0	1693.7	32.3	796198.4
	2.8	-321.7	0.0	30.5	1.4	794839.1
	2.6	-337.2	0.3	558.3	11.4	795268.7
	4.2	-330.0	0.1	299.6	4.4	795069.5
	4.0	-345.6	0.4	827.4	14.5	795499.1
	3.6	-296.4	-0.6	-835.7	-16.5	794139.8
	3.5	-311.9	-0.3	-307.9	-6.4	794569.4
	-16.9	-324.8	0.1	131.7	0.0	794935.4
	-17.1	-340.3	0.4	659.5	10.0	795364.9
	-17.5	-291.2	-0.7	-1003.6	-20.9	794005.7
	-17.6	-306.7	-0.3	-475.8	-10.9	794435.2
	-16.0	-299.5	-0.5	-734.5	-17.9	794236.1
	-16.2	-315.1	-0.2	-206.7	-7.8	794665.6
	-16.6	-265.9	-1.3	-1869.9	-38.8	793306.4
	-16.7	-281.4	-0.9	-1342.0	-28.7	793735.9
845.	3.3	-7672.3	0.7	1165.8	-265.9	-899451.3
	3.1	-7687.9	1.0	1693.7	-400.2	-905583.1
	2.8	-7638.7	0.0	30.5	16.7	-886170.5
	2.6	-7654.2	0.3	558.3	-117.6	-892302.2
	4.2	-7647.1	0.1	299.6	-35.1	-889471.7
	4.0	-7662.6	0.4	827.4	-169.4	-895603.4
	3.6	-7613.4	-0.6	-835.7	247.4	-876190.8
	3.5	-7629.0	-0.3	-307.9	113.2	-882322.6
	-16.9	-7641.9	0.1	131.7	-21.1	-887404.6
	-17.1	-7657.4	0.4	659.5	-155.4	-893536.3
	-17.5	-7608.2	-0.7	-1003.6	261.4	-874123.7
	-17.6	-7623.8	-0.3	-475.8	127.2	-880255.5
	-16.0	-7616.6	-0.5	-734.5	209.6	-877424.9
	-16.2	-7632.1	-0.2	-206.7	75.3	-883556.7
	-16.6	-7582.9	-1.3	-1869.9	492.2	-864144.1
	-16.7	-7598.5	-0.9	-1342.0	357.9	-870275.8
Asta	218	nod	108	109		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3.8	4769.3	1.0	24776.2	255.0	-338769.5
	-3.9	4758.8	1.5	25661.5	376.8	-335882.1
	-2.3	4792.2	0.0	22870.5	-2.1	-345058.1
	-2.5	4781.7	0.5	23755.8	119.7	-342170.7
	-4.8	4786.3	0.2	23326.2	45.9	-343452.2
	-5.0	4775.8	0.7	24211.5	167.7	-340564.9
	-3.3	4809.3	-0.8	21420.5	-211.2	-349740.8
	-3.5	4798.8	-0.3	22305.8	-89.4	-346853.5
	-6.1	4789.5	0.0	23004.8	5.5	-344354.1
	-6.2	4779.0	0.5	23890.0	127.3	-341466.8
	-4.6	4812.5	-1.0	21099.0	-251.6	-350642.7
	-4.7	4802.0	-0.5	21984.3	-129.8	-347755.4
	-7.1	4806.6	-0.8	21554.8	-203.6	-349036.9
	-7.2	4796.0	-0.3	22440.1	-81.8	-346149.5
	-5.6	4829.5	-1.8	19649.1	-460.7	-355325.5
	-5.7	4819.0	-1.3	20534.4	-338.9	-352438.1
253.	-3.8	261.4	1.0	24776.2	1.1	320126.0
	-3.9	250.9	1.5	25661.5	4.3	320358.3
	-2.3	284.4	0.0	22870.5	-4.7	319628.8
	-2.5	273.9	0.5	23755.8	-1.6	319861.2
	-4.8	278.5	0.2	23326.2	-5.1	319743.9
	-5.0	268.0	0.7	24211.5	-2.0	319976.3
	-3.3	301.4	-0.8	21420.5	-10.9	319246.7
	-3.5	290.9	-0.3	22305.8	-7.8	319479.1
	-6.1	281.7	0.0	23004.8	8.4	319647.4
	-6.2	271.1	0.5	23890.0	11.6	319879.8
	-4.6	304.6	-1.0	21099.0	2.6	319150.3
	-4.7	294.1	-0.5	21984.3	5.7	319382.7
	-7.1	298.7	-0.8	21554.8	2.2	319265.4
	-7.2	288.2	-0.3	22440.1	5.3	319497.7
	-5.6	321.6	-1.8	19649.1	-3.7	318768.2
	-5.7	311.1	-1.3	20534.4	-0.5	319000.6
505.	-3.8	-5373.0	1.0	24776.2	-247.1	-301559.5
	-3.9	-5383.5	1.5	25661.5	-362.6	-303982.0
	-2.3	-5350.1	0.0	22870.5	-1.1	-296264.7
	-2.5	-5360.6	0.5	23755.8	-116.6	-298687.3
	-4.8	-5356.0	0.2	23326.2	-50.5	-297640.9
	-5.0	-5366.5	0.7	24211.5	-166.0	-300063.5
	-3.3	-5333.0	-0.8	21420.5	195.5	-292346.1
	-3.5	-5343.6	-0.3	22305.8	80.0	-294768.7
	-6.1	-5352.8	0.0	23004.8	5.1	-296930.9
	-6.2	-5363.3	0.5	23890.0	-110.4	-299353.5
	-4.6	-5329.9	-1.0	21099.0	251.1	-291636.2
	-4.7	-5340.4	-0.5	21984.3	135.6	-294058.7
	-7.1	-5335.8	-0.8	21554.8	201.7	-293012.3
	-7.2	-5346.3	-0.3	22440.1	86.2	-295434.9
	-5.6	-5312.8	-1.8	19649.1	447.7	-287717.6
	-5.7	-5323.3	-1.3	20534.4	332.2	-290140.2
Asta	219	nod	107	108		

PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4.3	4988.5	3.7	-52162.6	510.2	-745175.7
	-4.4	4970.8	5.2	-51412.3	724.5	-742660.0
	-11.1	5026.9	0.4	-53778.3	57.3	-750632.0
	-11.2	5009.2	1.9	-53028.0	271.7	-748116.4
	-1.2	5017.4	1.1	-53390.2	151.6	-749265.5
	-1.3	4999.6	2.6	-52639.9	366.0	-746749.8
	-7.9	5055.8	-2.2	-55005.9	-301.2	-754721.8
	-8.1	5038.0	-0.7	-54255.7	-86.9	-752206.2
	0.9	5023.7	-0.4	-53674.6	-61.2	-750153.6
	0.8	5006.0	1.2	-52924.3	153.2	-747637.9
	-5.9	5062.1	-3.7	-55290.3	-514.0	-755609.9
	-6.0	5044.4	-2.1	-54540.1	-299.7	-753094.3
	4.0	5052.6	-3.0	-54902.2	-419.7	-754243.4
	3.9	5034.9	-1.4	-54152.0	-205.3	-751727.7
	-2.8	5091.0	-6.3	-56517.9	-872.6	-759699.7
	-2.9	5073.3	-4.7	-55767.7	-658.2	-757184.1
140.	-4.3	1624.6	3.7	-52162.6	0.1	-282544.6
	-4.4	1606.9	5.2	-51412.3	-2.8	-282511.5
	-11.1	1663.0	0.4	-53778.3	6.4	-282624.6
	-11.2	1645.3	1.9	-53028.0	3.6	-282591.5
	-1.2	1653.5	1.1	-53390.2	4.8	-282593.9
	-1.3	1635.8	2.6	-52639.9	1.9	-282560.8
	-7.9	1691.9	-2.2	-55005.9	11.1	-282673.8
	-8.1	1674.2	-0.7	-54255.7	8.2	-282640.7
	0.9	1659.9	-0.4	-53674.6	-7.3	-282592.0
	0.8	1642.1	1.2	-52924.3	-10.2	-282558.9
	-5.9	1698.3	-3.7	-55290.3	-1.0	-282672.0
	-6.0	1680.5	-2.1	-54540.1	-3.9	-282638.9
	4.0	1688.7	-3.0	-54902.2	-2.7	-282641.3
	3.9	1671.0	-1.4	-54152.0	-5.5	-282608.2
	-2.8	1727.1	-6.3	-56517.9	3.7	-282721.2
	-2.9	1709.4	-4.7	-55767.7	0.8	-282688.2
280.	-4.3	-1714.4	3.7	-52162.6	-514.0	-289120.9
	-4.4	-1732.2	5.2	-51412.3	-734.2	-291570.3
	-11.1	-1676.0	0.4	-53778.3	-48.5	-283822.8
	-11.2	-1693.8	1.9	-53028.0	-268.6	-286272.3
	-1.2	-1685.6	1.1	-53390.2	-146.2	-285129.6
	-1.3	-1703.3	2.6	-52639.9	-366.3	-287579.1
	-7.9	-1647.2	-2.2	-55005.9	319.4	-279831.5
	-8.1	-1664.9	-0.7	-54255.7	99.2	-282281.0
	0.9	-1679.2	-0.4	-53674.6	50.6	-284235.1
	0.8	-1696.9	1.2	-52924.3	-169.5	-286684.6
	-5.9	-1640.8	-3.7	-55290.3	516.2	-278937.1
	-6.0	-1658.5	-2.1	-54540.1	296.0	-281386.5
	4.0	-1650.3	-3.0	-54902.2	418.5	-280243.8
	3.9	-1668.1	-1.4	-54152.0	198.4	-282693.3
	-2.8	-1611.9	-6.3	-56517.9	884.0	-274945.8
	-2.9	-1629.7	-4.7	-55767.7	663.9	-277395.3
Asta	220	nod	159	107		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	9.9	6729.9	0.6	-4072.8	301.5	-542248.6
	9.5	6721.2	0.9	-3483.9	456.3	-538023.3
	-2.1	6748.7	0.0	-5339.2	-15.9	-551404.5
	-2.6	6740.0	0.3	-4750.3	138.9	-547179.2
	18.5	6744.0	0.1	-5039.7	29.8	-549131.1
	18.1	6735.3	0.4	-4450.8	184.5	-544905.8
	6.5	6762.9	-0.6	-6306.0	-287.7	-558287.1
	6.0	6754.2	-0.3	-5717.1	-132.9	-554061.8
	-23.7	6746.9	0.1	-5224.1	33.3	-550515.2
	-24.1	6738.2	0.4	-4635.2	188.0	-546289.9
	-35.7	6765.7	-0.6	-6490.4	-284.2	-559671.1
	-36.2	6757.0	-0.3	-5901.5	-129.4	-555445.8
	-15.1	6761.0	-0.5	-6190.9	-238.5	-557397.7
	-15.5	6752.3	-0.2	-5602.0	-83.7	-553172.4
	-27.1	6779.9	-1.1	-7457.3	-555.9	-566553.6
	-27.6	6771.2	-0.8	-6868.4	-401.2	-562328.3
420.	9.9	-548.7	0.6	-4072.8	44.5	755786.2
	9.5	-557.4	0.9	-3483.9	65.0	756361.3
	-2.1	-529.9	0.0	-5339.2	2.4	754543.2
	-2.6	-538.6	0.3	-4750.3	22.8	755118.2
	18.5	-534.6	0.1	-5039.7	9.9	754847.2
	18.1	-543.3	0.4	-4450.8	30.3	755422.2
	6.5	-515.7	-0.6	-6306.0	-32.3	753604.1
	6.0	-524.4	-0.3	-5717.1	-11.8	754179.2
	-23.7	-531.7	0.1	-5224.1	-1.9	754661.9
	-24.1	-540.4	0.4	-4635.2	18.5	755236.9
	-35.7	-512.9	-0.6	-6490.4	-44.1	753418.8
	-36.2	-521.6	-0.3	-5901.5	-23.7	753993.9
	-15.1	-517.6	-0.5	-6190.9	-36.5	753722.8
	-15.5	-526.3	-0.2	-5602.0	-16.1	754297.9
	-27.1	-498.7	-1.1	-7457.3	-78.7	752479.8
	-27.6	-507.4	-0.8	-6868.4	-58.3	753054.8
840.	9.9	-7827.3	0.6	-4072.8	-215.6	-1003191.3
	9.5	-7836.0	0.9	-3483.9	-329.5	-1006266.5
	-2.1	-7808.5	0.0	-5339.2	17.5	-996521.5
	-2.6	-7817.2	0.3	-4750.3	-96.4	-999596.6
	18.5	-7813.2	0.1	-5039.7	-13.1	-998186.9
	18.1	-7821.9	0.4	-4450.8	-127.0	-1001262.0
	6.5	-7794.4	-0.6	-6306.0	220.0	-991517.0

	6.0	-7803.0	-0.3	-5717.1	106.1	-994592.2
	-23.7	-7810.3	0.1	-5224.1	-34.0	-997173.5
	-24.1	-7819.0	0.4	-4635.2	-147.9	-1000248.7
	-35.7	-7791.5	-0.6	-6490.4	199.1	-990503.6
	-36.2	-7800.2	-0.3	-5901.5	85.2	-993578.8
	-15.1	-7796.2	-0.5	-6190.9	168.5	-992169.0
	-15.5	-7804.9	-0.2	-5602.0	54.6	-995244.2
	-27.1	-7777.3	-1.1	-7457.3	401.6	-985499.2
	-27.6	-7786.0	-0.8	-6868.4	287.7	-988574.3
Asta	221	nod1	160	106		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	17.5	6789.4	0.6	1565.8	290.3	-554038.5
	16.3	6785.1	0.9	2148.0	444.1	-551991.8
	-3.3	6798.8	-0.1	314.1	-26.9	-558468.8
	-4.5	6794.4	0.3	896.3	126.8	-556422.1
	28.8	6796.4	0.0	609.5	20.1	-557378.3
	27.6	6792.1	0.3	1191.8	173.8	-555331.6
	8.0	6805.8	-0.6	-642.2	-297.2	-561808.7
	6.8	6801.5	-0.3	-59.9	-143.4	-559761.9
	-26.8	6797.8	0.1	436.1	41.2	-558011.1
	-28.0	6793.5	0.4	1018.4	194.9	-555964.3
	-47.6	6807.1	-0.6	-815.6	-276.1	-562441.4
	-48.8	6802.8	-0.2	-233.3	-122.3	-560394.7
	-15.5	6804.8	-0.5	-520.1	-229.1	-561350.9
	-16.7	6800.5	-0.1	62.1	-75.3	-559304.2
	-36.3	6814.2	-1.1	-1771.8	-546.3	-565781.2
	-37.5	6809.9	-0.8	-1189.6	-392.6	-563734.5
420.	17.5	-489.2	0.6	1565.8	43.1	769006.2
	16.3	-493.5	0.9	2148.0	61.7	769240.4
	-3.3	-479.8	-0.1	314.1	2.3	768503.5
	-4.5	-484.2	0.3	896.3	20.9	768737.8
	28.8	-482.2	0.0	609.5	11.8	768621.3
	27.6	-486.5	0.3	1191.8	30.4	768855.5
	8.0	-472.8	-0.6	-642.2	-29.0	768118.6
	6.8	-477.1	-0.3	-59.9	-10.4	768352.9
	-26.8	-480.8	0.1	436.1	-3.3	768557.7
	-28.0	-485.1	0.4	1018.4	15.3	768791.9
	-47.6	-471.5	-0.6	-815.6	-44.1	768055.1
	-48.8	-475.8	-0.2	-233.3	-25.5	768289.3
	-15.5	-473.8	-0.5	-520.1	-34.7	768172.8
	-16.7	-478.1	-0.1	62.1	-16.0	768407.0
	-36.3	-464.4	-1.1	-1771.8	-75.4	767670.2
	-37.5	-468.7	-0.8	-1189.6	-56.8	767904.4
840.	17.5	-7767.8	0.6	1565.8	-211.9	-964961.7
	16.3	-7772.1	0.9	2148.0	-328.4	-966539.9
	-3.3	-7758.4	-0.1	314.1	24.2	-961536.5
	-4.5	-7762.8	0.3	896.3	-92.2	-963114.7
	28.8	-7760.8	0.0	609.5	-4.3	-962391.6
	27.6	-7765.1	0.3	1191.8	-120.8	-963969.9
	8.0	-7751.4	-0.6	-642.2	231.8	-958966.4
	6.8	-7755.7	-0.3	-59.9	115.4	-960544.7
	-26.8	-7759.4	0.1	436.1	-40.6	-961885.9
	-28.0	-7763.7	0.4	1018.4	-157.0	-963464.1
	-47.6	-7750.1	-0.6	-815.6	195.6	-958460.7
	-48.8	-7754.4	-0.2	-233.3	79.2	-960038.9
	-15.5	-7752.4	-0.5	-520.1	167.0	-959315.8
	-16.7	-7756.7	-0.1	62.1	50.6	-960894.1
	-36.3	-7743.0	-1.1	-1771.8	403.2	-955890.6
	-37.5	-7747.3	-0.8	-1189.6	286.7	-957468.8
Asta	222	nod1	106	105		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-19.1	2362.3	4.1	5590.7	580.5	-670466.4
	-20.2	2354.8	5.7	6226.5	803.9	-669408.7
	-49.5	2378.6	0.9	4222.6	132.2	-672770.6
	-50.6	2371.1	2.5	4858.3	355.6	-671712.9
	-9.3	2374.5	1.4	4549.9	201.4	-672181.7
	-10.4	2367.0	3.0	5185.7	424.8	-671124.1
	-39.7	2390.8	-1.8	3181.8	-246.9	-674485.9
	-40.8	2383.3	-0.2	3817.6	-23.6	-673428.3
	20.5	2377.1	-0.8	4300.7	-115.8	-672560.2
	19.5	2369.6	0.8	4936.5	107.6	-671502.5
	-9.9	2393.4	-4.0	2932.6	-564.1	-674864.4
	-10.9	2385.9	-2.4	3568.4	-340.7	-673806.7
	30.3	2389.2	-3.5	3260.0	-494.9	-674275.5
	29.3	2381.7	-1.9	3895.8	-271.5	-673217.8
	-0.1	2405.5	-6.7	1891.8	-943.3	-676579.7
	-1.1	2398.0	-5.1	2527.6	-719.9	-675522.0
140.	-19.1	-63.9	4.1	5590.7	8.5	-509575.7
	-20.2	-71.4	5.7	6226.5	8.9	-509566.3
	-49.5	-47.6	0.9	4222.6	11.7	-509597.0
	-50.6	-55.1	2.5	4858.3	12.1	-509587.6
	-9.3	-51.7	1.4	4549.9	8.5	-509589.8
	-10.4	-59.2	3.0	5185.7	8.9	-509580.4
	-39.7	-35.4	-1.8	3181.8	11.7	-509611.1
	-40.8	-42.9	-0.2	3817.6	12.1	-509601.7
	20.5	-49.1	-0.8	4300.7	-11.5	-509607.2
	19.5	-56.6	0.8	4936.5	-11.1	-509597.8
	-9.9	-32.8	-4.0	2932.6	-8.3	-509628.5
	-10.9	-40.3	-2.4	3568.4	-8.0	-509619.1

	30.3	-37.0	-3.5	3260.0	-11.5	-509621.2
	29.3	-44.5	-1.9	3895.8	-11.1	-509611.8
	-0.1	-20.7	-6.7	1891.8	-8.4	-509642.5
	-1.1	-28.2	-5.1	2527.6	-8.0	-509633.1
280.	-19.1	-2490.1	4.1	5590.7	-563.3	-688355.0
	-20.2	-2497.6	5.7	6226.5	-785.9	-689393.9
	-49.5	-2473.8	0.9	4222.6	-113.3	-686093.3
	-50.6	-2481.3	2.5	4858.3	-335.9	-687132.2
	-9.3	-2477.9	1.4	4549.9	-184.2	-686667.7
	-10.4	-2485.4	3.0	5185.7	-406.8	-687706.6
	-39.7	-2461.6	-1.8	3181.8	265.8	-684406.0
	-40.8	-2469.1	-0.2	3817.6	43.2	-685444.9
	20.5	-2475.3	-0.8	4300.7	97.2	-686320.4
	19.5	-2482.8	0.8	4936.5	-125.4	-687359.3
	-9.9	-2459.0	-4.0	2932.6	547.2	-684058.7
	-10.9	-2466.5	-2.4	3568.4	324.6	-685097.6
	30.3	-2463.2	-3.5	3260.0	476.3	-684633.2
	29.3	-2470.7	-1.9	3895.8	253.8	-685672.1
	-0.1	-2446.9	-6.7	1891.8	926.3	-682371.5
	-1.1	-2454.4	-5.1	2527.6	703.8	-683410.4
Asta	223	nod1	105	167		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-9.6	7723.3	0.7	-86.7	233.4	-957082.7
	-9.9	7718.6	1.0	456.1	347.3	-955432.5
	-22.5	7733.6	0.0	-1254.7	-2.0	-960681.0
	-22.9	7728.9	0.3	-711.9	111.9	-959030.8
	-4.2	7730.9	0.1	-975.9	35.9	-959759.7
	-4.5	7726.2	0.4	-433.1	149.8	-958109.4
	-17.1	7741.2	-0.5	-2144.0	-199.5	-963358.0
	-17.4	7736.5	-0.2	-1601.2	-85.6	-961707.8
	-5.3	7732.5	0.0	-1168.2	11.1	-960306.9
	-5.6	7727.8	0.3	-625.4	125.0	-958656.7
	-18.3	7742.8	-0.6	-2336.3	-224.3	-963905.2
	-18.6	7738.1	-0.3	-1793.5	-110.4	-962255.0
	0.1	7740.1	-0.5	-2057.5	-186.4	-962983.8
	-0.2	7735.4	-0.2	-1514.7	-72.5	-961333.6
	-12.8	7750.4	-1.2	-3225.5	-421.8	-966582.2
	-13.1	7745.7	-0.9	-2682.7	-307.9	-964931.9
420.	-9.6	418.3	0.7	-86.7	-43.6	752861.9
	-9.9	413.6	1.0	456.1	-62.3	752536.8
	-22.5	428.5	0.0	-1254.7	-3.6	753572.2
	-22.9	423.8	0.3	-711.9	-22.3	753247.1
	-4.2	425.9	0.1	-975.9	-12.0	753387.5
	-4.5	421.2	0.4	-433.1	-30.7	753062.4
	-17.1	436.2	-0.5	-2144.0	28.0	754097.8
	-17.4	431.5	-0.2	-1601.2	9.3	753772.7
	-5.3	427.5	0.0	-1168.2	3.8	753499.3
	-5.6	422.8	0.3	-625.4	-15.0	753174.2
	-18.3	437.7	-0.6	-2336.3	43.8	754209.6
	-18.6	433.0	-0.3	-1793.5	25.0	753884.5
	0.1	435.1	-0.5	-2057.5	35.4	754025.0
	-0.2	430.4	-0.2	-1514.7	16.7	753699.8
	-12.8	445.4	-1.2	-3225.5	75.4	754735.2
	-13.1	440.7	-0.9	-2682.7	56.6	754410.1
840.	-9.6	-6892.7	0.7	-86.7	-319.8	-606553.5
	-9.9	-6897.4	1.0	456.1	-471.2	-608853.9
	-22.5	-6882.4	0.0	-1254.7	-4.5	-601534.5
	-22.9	-6887.1	0.3	-711.9	-155.9	-603835.0
	-4.2	-6885.1	0.1	-975.9	-59.0	-602825.3
	-4.5	-6889.8	0.4	-433.1	-210.4	-605125.8
	-17.1	-6874.8	-0.5	-2144.0	256.2	-597806.4
	-17.4	-6879.5	-0.2	-1601.2	104.9	-600106.8
	-5.3	-6883.5	0.0	-1168.2	-4.2	-602054.4
	-5.6	-6888.2	0.3	-625.4	-155.6	-604354.9
	-18.3	-6873.2	-0.6	-2336.3	311.0	-597035.5
	-18.6	-6877.9	-0.3	-1793.5	159.6	-599336.0
	0.1	-6875.9	-0.5	-2057.5	256.5	-598326.2
	-0.2	-6880.6	-0.2	-1514.7	105.1	-600626.7
	-12.8	-6865.6	-1.2	-3225.5	571.8	-593307.3
	-13.1	-6870.3	-0.9	-2682.7	420.4	-595607.8
Asta	224	nod1	103	166		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2.8	7743.0	0.6	1473.4	223.8	-962349.2
	-5.4	7743.0	1.0	2038.4	336.4	-962319.5
	-31.1	7743.3	0.0	258.4	-20.4	-962450.0
	-33.6	7743.2	0.3	823.5	92.2	-962420.2
	1.8	7743.1	0.1	547.0	25.0	-962394.8
	-0.7	7743.1	0.4	1112.1	137.5	-962365.1
	-26.4	7743.4	-0.6	-667.9	-219.2	-962495.6
	-28.9	7743.3	-0.3	-102.9	-106.6	-962465.9
	11.0	7743.1	0.0	340.4	25.1	-962386.4
	8.5	7743.0	0.4	905.4	137.7	-962356.7
	-17.2	7743.4	-0.6	-874.5	-219.0	-962487.2
	-19.7	7743.3	-0.3	-309.5	-106.4	-962457.5
	15.7	7743.2	-0.5	-585.9	-173.7	-962432.1
	13.1	7743.1	-0.2	-20.9	-61.1	-962402.4
	-12.5	7743.4	-1.2	-1800.9	-417.8	-962532.9
	-15.1	7743.4	-0.9	-1235.8	-305.2	-962503.1
420.	-2.8	464.4	0.6	1473.4	-48.4	761219.6

	-5.4	464.4	1.0	2038.4	-67.3	761224.2
	-31.1	464.7	0.0	258.4	-8.5	761230.6
	-33.6	464.6	0.3	823.5	-27.4	761235.2
	1.8	464.5	0.1	547.0	-16.0	761211.7
	-0.7	464.5	0.4	1112.1	-34.9	761216.3
	-26.4	464.8	-0.6	-667.9	23.9	761222.8
	-28.9	464.7	-0.3	-102.9	5.0	761227.4
	11.0	464.5	0.0	340.4	7.9	761205.8
	8.5	464.4	0.4	905.4	-11.0	761210.3
	-17.2	464.8	-0.6	-874.5	47.7	761216.8
	-19.7	464.7	-0.3	-309.5	28.8	761221.4
	15.7	464.6	-0.5	-585.9	40.3	761197.9
	13.1	464.5	-0.2	-20.9	21.4	761202.5
	-12.5	464.8	-1.2	-1800.9	80.1	761208.9
	-15.1	464.8	-0.9	-1235.8	61.2	761213.5
840.	-2.8	-6814.2	0.6	1473.4	-317.5	-572223.9
	-5.4	-6814.2	1.0	2038.4	-467.9	-572244.4
	-31.1	-6813.9	0.0	258.4	6.3	-572117.2
	-33.6	-6814.0	0.3	823.5	-144.1	-572137.7
	1.8	-6814.1	0.1	547.0	-53.9	-572194.0
	-0.7	-6814.1	0.4	1112.1	-204.3	-572214.5
	-26.4	-6813.8	-0.6	-667.9	269.9	-572087.2
	-28.9	-6813.9	-0.3	-102.9	119.5	-572107.8
	11.0	-6814.1	0.0	340.4	-12.3	-572198.4
	8.5	-6814.2	0.4	905.4	-162.7	-572218.9
	-17.2	-6813.8	-0.6	-874.5	311.5	-572091.7
	-19.7	-6813.9	-0.3	-309.5	161.1	-572112.2
	15.7	-6814.0	-0.5	-585.9	251.3	-572168.5
	13.1	-6814.1	-0.2	-20.9	100.9	-572189.0
	-12.5	-6813.8	-1.2	-1800.9	575.1	-572061.7
	-15.1	-6813.8	-0.9	-1235.8	424.7	-572082.3
Asta	225	nod	104	103		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-16.2	2421.2	4.3	1430.4	614.8	-687814.3
	-19.9	2421.5	5.9	2073.8	831.8	-687845.2
	-70.1	2420.5	1.1	49.4	157.3	-687725.6
	-73.7	2420.8	2.6	692.9	374.4	-687756.5
	-4.1	2420.7	1.7	377.3	245.8	-687761.5
	-7.7	2421.0	3.2	1020.8	462.8	-687792.5
	-58.0	2420.0	-1.6	-1003.6	-211.7	-687672.9
	-61.6	2420.3	0.0	-360.1	5.4	-687703.8
	47.6	2420.7	-1.0	98.4	-144.4	-687770.1
	44.0	2421.0	0.6	741.8	72.6	-687801.1
	-6.3	2420.0	-4.2	-1282.6	-601.9	-687681.5
	-9.9	2420.3	-2.7	-639.1	-384.8	-687712.4
	59.8	2420.2	-3.6	-954.7	-513.5	-687717.4
	56.1	2420.5	-2.0	-311.2	-296.4	-687748.4
	5.9	2419.4	-6.9	-2335.6	-970.9	-687628.7
	2.2	2419.7	-5.3	-1692.1	-753.8	-687659.7
140.	-16.2	-5.0	4.3	1430.4	11.8	-518668.7
	-19.9	-4.7	5.9	2073.8	11.3	-518657.3
	-70.1	-5.7	1.1	49.4	9.7	-518689.7
	-73.7	-5.4	2.6	692.9	9.1	-518678.4
	-4.1	-5.5	1.7	377.3	12.9	-518686.5
	-7.7	-5.2	3.2	1020.8	12.3	-518675.2
	-58.0	-6.2	-1.6	-1003.6	10.8	-518707.6
	-61.6	-5.9	0.0	-360.1	10.2	-518696.2
	47.6	-5.5	-1.0	98.4	-9.9	-518706.3
	44.0	-5.2	0.6	741.8	-10.5	-518695.0
	-6.3	-6.2	-4.2	-1282.6	-12.1	-518727.4
	-9.9	-5.9	-2.7	-639.1	-12.6	-518716.0
	59.8	-6.0	-3.6	-954.7	-8.9	-518724.2
	56.1	-5.7	-2.0	-311.2	-9.4	-518712.8
	5.9	-6.8	-6.9	-2335.6	-11.0	-518745.2
	2.2	-6.5	-5.3	-1692.1	-11.6	-518733.9
280.	-16.2	-2431.2	4.3	1430.4	-595.5	-689198.4
	-19.9	-2430.9	5.9	2073.8	-813.7	-689144.8
	-70.1	-2431.9	1.1	49.4	-138.0	-689323.5
	-73.7	-2431.6	2.6	692.9	-356.2	-689269.9
	-4.1	-2431.7	1.7	377.3	-224.4	-689286.9
	-7.7	-2431.4	3.2	1020.8	-442.6	-689233.2
	-58.0	-2432.4	-1.6	-1003.6	233.1	-689412.0
	-61.6	-2432.1	0.0	-360.1	14.9	-689358.3
	47.6	-2431.7	-1.0	98.4	124.7	-689308.9
	44.0	-2431.4	0.6	741.8	-93.5	-689255.2
	-6.3	-2432.5	-4.2	-1282.6	582.2	-689434.0
	-9.9	-2432.1	-2.7	-639.1	364.0	-689380.3
	59.8	-2432.2	-3.6	-954.7	495.8	-689397.4
	56.1	-2431.9	-2.0	-311.2	277.6	-689343.7
	5.9	-2433.0	-6.9	-2335.6	953.3	-689522.5
	2.2	-2432.7	-5.3	-1692.1	735.1	-689468.8
Asta	226	nod	161	104		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	9.8	6794.8	0.6	1128.0	280.0	-559303.9
	13.2	6795.0	0.9	1713.4	431.1	-559431.6
	38.5	6794.5	-0.1	-130.7	-57.0	-559049.4
	41.9	6794.7	0.2	454.6	94.1	-559177.1
	12.9	6794.6	0.0	166.7	16.3	-559108.3
	16.2	6794.8	0.3	752.1	167.3	-559236.0

	41.6	6794.2	-0.7	-1092.0	-320.8	-558853.8
	44.9	6794.4	-0.4	-506.7	-169.7	-558981.5
	-55.6	6794.4	0.1	6.3	60.6	-558987.9
	-52.3	6794.6	0.5	591.6	211.7	-559115.6
	-26.9	6794.1	-0.6	-1252.4	-276.4	-558733.4
	-23.6	6794.2	-0.2	-667.1	-125.3	-558861.1
	-52.6	6794.1	-0.4	-955.0	-203.1	-558792.4
	-49.2	6794.3	-0.1	-369.7	-52.1	-558920.1
	-23.9	6793.8	-1.1	-2213.8	-540.2	-558537.9
420.	-20.5	6794.0	-0.8	-1628.4	-389.1	-558665.6
	9.8	-483.8	0.6	1128.0	50.2	766024.2
	13.2	-483.6	0.9	1713.4	68.9	765968.9
	38.5	-484.1	-0.1	-130.7	8.5	766139.1
	41.9	-483.9	0.2	454.6	27.2	766083.7
	12.9	-484.0	0.0	166.7	19.7	766110.3
	16.2	-483.8	0.3	752.1	38.4	766054.9
	41.6	-484.4	-0.7	-1092.0	-22.0	766225.2
	44.9	-484.2	-0.4	-506.7	-3.3	766169.8
	-55.6	-484.2	0.1	6.3	-9.3	766150.7
	-52.3	-484.0	0.5	591.6	9.4	766095.4
	-26.9	-484.5	-0.6	-1252.4	-51.1	766265.6
	-23.6	-484.4	-0.2	-667.1	-32.3	766210.3
	-52.6	-484.5	-0.4	-955.0	-39.8	766236.8
	-49.2	-484.3	-0.1	-369.7	-21.1	766181.5
	-23.9	-484.8	-1.1	-2213.8	-81.6	766351.7
840.	-20.5	-484.6	-0.8	-1628.4	-62.9	766296.4
	9.8	-7762.4	0.6	1128.0	-210.4	-965655.9
	13.2	-7762.2	0.9	1713.4	-324.1	-965638.9
	38.5	-7762.7	-0.1	-130.7	43.2	-965687.1
	41.9	-7762.5	0.2	454.6	-70.5	-965670.1
	12.9	-7762.6	0.0	166.7	-7.7	-965679.3
	16.2	-7762.4	0.3	752.1	-121.3	-965662.3
	41.6	-7763.0	-0.7	-1092.0	245.9	-965710.5
	44.9	-7762.8	-0.4	-506.7	132.3	-965693.5
	-55.6	-7762.8	0.1	6.3	-48.4	-965720.7
	-52.3	-7762.6	0.5	591.6	-162.1	-965703.7
	-26.9	-7763.1	-0.6	-1252.4	205.1	-965751.9
	-23.6	-7763.0	-0.2	-667.1	91.5	-965734.9
	-52.6	-7763.1	-0.4	-955.0	154.3	-965744.1
	-49.2	-7762.9	-0.1	-369.7	40.7	-965727.1
	-23.9	-7763.4	-1.1	-2213.8	407.9	-965775.3
	-20.5	-7763.2	-0.8	-1628.4	294.2	-965758.3
Asta	227	nod1	162	101		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-9.4	6842.2	0.6	895.4	281.0	-589386.9
	-8.3	6847.0	0.9	1457.5	429.6	-591769.2
	0.1	6832.1	-0.1	-311.8	-55.8	-584336.3
	1.3	6836.9	0.2	250.2	92.8	-586718.6
	-9.6	6834.5	0.0	-27.4	28.0	-585511.7
	-8.4	6839.2	0.4	534.6	176.7	-587894.1
	0.0	6824.4	-0.7	-1234.7	-308.8	-580461.1
	1.1	6829.2	-0.4	-672.6	-160.2	-582843.4
	-20.6	6832.7	0.1	-193.5	42.9	-584617.6
	-19.5	6837.4	0.4	368.6	191.5	-586999.9
	-11.1	6822.6	-0.6	-1400.7	-294.0	-579567.0
	-10.0	6827.4	-0.3	-838.7	-145.3	-581949.3
	-20.8	6825.0	-0.4	-1116.3	-210.1	-580742.4
	-19.7	6829.7	-0.1	-554.3	-61.5	-583124.7
	-11.3	6814.9	-1.1	-2323.6	-546.9	-575691.8
420.	-10.1	6819.6	-0.8	-1761.5	-398.3	-578074.1
	-9.4	-436.4	0.6	895.4	42.6	755831.2
	-8.3	-431.6	0.9	1457.5	61.4	755444.4
	0.1	-446.5	-0.1	-311.8	2.8	756651.4
	1.3	-441.7	0.2	250.2	21.6	756264.6
	-9.6	-444.1	0.0	-27.4	12.1	756459.9
	-8.4	-439.4	0.4	534.6	30.9	756073.2
	0.0	-454.2	-0.7	-1234.7	-27.7	757280.2
	1.1	-449.5	-0.4	-672.6	-8.9	756893.4
	-20.6	-445.9	0.1	-193.5	-5.1	756606.6
	-19.5	-441.2	0.4	368.6	13.8	756219.9
	-11.1	-456.0	-0.6	-1400.7	-44.9	757426.9
	-10.0	-451.2	-0.3	-838.7	-26.0	757040.1
	-20.8	-453.6	-0.4	-1116.3	-35.6	757235.4
	-19.7	-448.9	-0.1	-554.3	-16.8	756848.6
	-11.3	-463.7	-1.1	-2323.6	-75.4	758055.6
	-10.1	-459.0	-0.8	-1761.5	-56.5	757668.9
840.	-9.4	-7715.0	0.6	895.4	-203.9	-955963.1
	-8.3	-7710.2	0.9	1457.5	-314.8	-954354.3
	0.1	-7725.1	-0.1	-311.8	53.9	-959373.3
	1.3	-7720.3	0.2	250.2	-57.0	-957764.4
	-9.6	-7722.7	0.0	-27.4	-12.0	-958580.8
	-8.4	-7718.0	0.4	534.6	-122.9	-956971.9
	0.0	-7732.8	-0.7	-1234.7	245.8	-961990.9
	1.1	-7728.1	-0.4	-672.6	134.9	-960382.1
	-20.6	-7724.5	0.1	-193.5	-45.5	-959181.5
	-19.5	-7719.8	0.4	368.6	-156.4	-957572.7
	-11.1	-7734.6	-0.6	-1400.7	212.3	-962591.7
	-10.0	-7729.8	-0.3	-838.7	101.4	-960982.8
	-20.8	-7732.2	-0.4	-1116.3	146.4	-961799.2
	-19.7	-7727.5	-0.1	-554.3	35.4	-960190.3

	-11.3	-7742.3	-1.1	-2323.6	404.2	-965209.3
	-10.1	-7737.6	-0.8	-1761.5	293.2	-963600.5
Asta	228	nod1	101	102		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-36.5	2446.2	3.6	1353.3	508.1	-683680.5
	-33.3	2454.8	5.1	1986.2	722.7	-684875.3
	-22.2	2428.0	0.1	-3.6	19.7	-681143.9
	-19.0	2436.6	1.7	629.3	234.3	-682338.8
	-33.1	2432.3	1.0	316.0	143.3	-681737.2
	-29.9	2440.8	2.5	948.9	357.9	-682932.1
	-18.8	2414.0	-2.5	-1040.9	-345.1	-679200.6
	-15.5	2422.6	-1.0	-408.0	-130.5	-680395.5
	-3.2	2428.9	-0.2	84.0	-30.3	-681277.0
	0.0	2437.5	1.4	716.8	184.3	-682471.9
	11.1	2410.7	-3.7	-1273.0	-518.7	-678740.4
	14.3	2419.3	-2.1	-640.1	-304.2	-679935.3
	0.2	2415.0	-2.8	-953.3	-395.1	-679333.7
	3.5	2423.5	-1.3	-320.5	-180.5	-680528.6
	14.5	2396.8	-6.3	-2310.3	-883.5	-676797.2
	17.8	2405.3	-4.7	-1677.4	-668.9	-677992.0
140.	-36.5	20.0	3.6	1353.3	7.4	-511044.3
	-33.3	28.6	5.1	1986.2	6.8	-511038.8
	-22.2	1.8	0.1	-3.6	2.8	-511057.5
	-19.0	10.4	1.7	629.3	2.2	-511052.0
	-33.1	6.1	1.0	316.0	9.0	-511054.5
	-29.9	14.6	2.5	948.9	8.4	-511049.0
	-18.8	-12.2	-2.5	-1040.9	4.4	-511067.7
	-15.5	-3.6	-1.0	-408.0	3.8	-511062.2
	-3.2	2.7	-0.2	84.0	-4.6	-511061.2
	0.0	11.3	1.4	716.8	-5.2	-511055.7
	11.1	-15.5	-3.7	-1273.0	-9.2	-511074.5
	14.3	-6.9	-2.1	-640.1	-9.8	-511068.9
	0.2	-11.2	-2.8	-953.3	-3.0	-511071.5
	3.5	-2.7	-1.3	-320.5	-3.6	-511066.0
	14.5	-29.4	-6.3	-2310.3	-7.6	-511084.7
	17.8	-20.9	-4.7	-1677.4	-8.2	-511079.2
280.	-36.5	-2406.2	3.6	1353.3	-499.0	-678076.6
	-33.3	-2397.6	5.1	1986.2	-714.7	-676870.7
	-22.2	-2424.4	0.1	-3.6	-14.3	-680639.2
	-19.0	-2415.8	1.7	629.3	-230.0	-679433.3
	-33.1	-2420.1	1.0	316.0	-131.0	-680040.3
	-29.9	-2411.6	2.5	948.9	-346.8	-678834.4
	-18.8	-2438.4	-2.5	-1040.9	353.7	-682602.9
	-15.5	-2429.8	-1.0	-408.0	137.9	-681397.0
	-3.2	-2423.5	-0.2	84.0	21.3	-680513.4
	0.0	-2414.9	1.4	716.8	-194.5	-679307.6
	11.1	-2441.7	-3.7	-1273.0	506.0	-683076.1
	14.3	-2433.1	-2.1	-640.1	290.2	-681870.2
	0.2	-2437.4	-2.8	-953.3	389.2	-682477.2
	3.5	-2428.9	-1.3	-320.5	173.5	-681271.3
	14.5	-2455.6	-6.3	-2310.3	873.9	-685039.8
	17.8	-2447.1	-4.7	-1677.4	658.2	-683833.9
Asta	229	nod1	102	165		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4.7	7725.7	0.7	1318.1	238.3	-960768.6
	-5.9	7730.3	1.0	1853.7	347.6	-962354.9
	-12.8	7715.8	0.0	165.6	-14.2	-957403.5
	-14.0	7720.4	0.3	701.2	95.0	-958989.8
	-3.7	7718.1	0.1	439.3	50.2	-958184.3
	-4.9	7722.7	0.4	974.9	159.4	-959770.5
	-11.8	7708.2	-0.6	-713.1	-202.4	-954819.1
	-13.0	7712.9	-0.3	-177.5	-93.2	-956405.4
	-9.6	7716.3	0.0	244.0	6.8	-957582.0
	-10.8	7721.0	0.3	779.6	116.0	-959168.3
	-17.7	7706.4	-0.7	-908.5	-245.8	-954216.9
	-18.9	7711.1	-0.4	-372.8	-136.5	-955803.2
	-8.7	7708.7	-0.5	-634.7	-181.4	-954997.7
	-9.9	7713.4	-0.2	-99.1	-72.1	-956584.0
	-16.7	7698.8	-1.2	-1787.2	-433.9	-951632.6
	-17.9	7703.5	-0.9	-1251.6	-324.7	-953218.9
420.	-4.7	447.1	0.7	1318.1	-39.2	755508.3
	-5.9	451.7	1.0	1853.7	-58.2	755878.5
	-12.8	437.2	0.0	165.6	0.4	754722.7
	-14.0	441.8	0.3	701.2	-18.6	755092.9
	-3.7	439.5	0.1	439.3	-7.9	754905.8
	-4.9	444.1	0.4	974.9	-26.9	755276.0
	-11.8	429.6	-0.6	-713.1	31.7	754120.2
	-13.0	434.3	-0.3	-177.5	12.7	754490.4
	-9.6	437.7	0.0	244.0	0.5	754765.7
	-10.8	442.4	0.3	779.6	-18.5	755135.9
	-17.7	427.8	-0.7	-908.5	40.1	753980.1
	-18.9	432.5	-0.4	-372.8	21.1	754350.3
	-8.7	430.1	-0.5	-634.7	31.8	754163.2
	-9.9	434.8	-0.2	-99.1	12.8	754533.4
	-16.7	420.2	-1.2	-1787.2	71.4	753377.6
	-17.9	424.9	-0.9	-1251.6	52.4	753747.8
840.	-4.7	-6831.5	0.7	1318.1	-316.5	-585227.1
	-5.9	-6826.9	1.0	1853.7	-463.6	-582900.5
	-12.8	-6841.4	0.0	165.6	14.7	-590163.5

	-14.0	-6836.8	0.3	701.2	-132.5	-587836.8
	-3.7	-6839.1	0.1	439.3	-65.7	-589016.5
	-4.9	-6834.5	0.4	974.9	-212.9	-586689.8
	-11.8	-6849.0	-0.6	-713.1	265.4	-593952.8
	-13.0	-6844.3	-0.3	-177.5	118.2	-591626.1
	-9.6	-6840.9	0.0	244.0	-5.5	-589898.9
	-10.8	-6836.2	0.3	779.6	-152.7	-587572.2
	-17.7	-6850.8	-0.7	-908.5	325.6	-594835.2
	-18.9	-6846.1	-0.4	-372.8	178.4	-592508.6
	-8.7	-6848.5	-0.5	-634.7	245.2	-593688.2
	-9.9	-6843.8	-0.2	-99.1	98.0	-591361.6
	-16.7	-6858.4	-1.2	-1787.2	576.3	-598624.6
	-17.9	-6853.7	-0.9	-1251.6	429.2	-596297.9
Asta	230	nod	95	94		
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ
0.	-25.8	6162.0	0.8	7700.7	247.0	-576421.4
	-23.2	6171.4	1.1	8611.8	347.4	-579320.3
	-10.8	6142.1	0.0	5741.7	13.5	-570250.8
	-8.1	6151.4	0.4	6652.8	113.9	-573149.8
	-24.7	6146.7	0.2	6205.5	72.6	-571694.4
	-22.0	6156.1	0.5	7116.6	173.0	-574593.4
	-9.6	6126.8	-0.5	4246.5	-160.9	-565523.9
	-6.9	6136.2	-0.2	5157.6	-60.5	-568422.8
	-2.0	6143.4	0.0	5865.0	-8.8	-570650.3
	0.7	6152.7	0.3	6776.0	91.6	-573549.3
	13.0	6123.5	-0.7	3905.9	-242.3	-564479.7
	15.7	6132.8	-0.4	4817.0	-141.9	-567378.7
	-0.8	6128.1	-0.6	4369.8	-183.2	-565923.4
	1.8	6137.5	-0.3	5280.8	-82.8	-568822.3
	14.2	6108.2	-1.3	2410.8	-416.7	-559752.8
	16.9	6117.6	-1.0	3321.8	-316.3	-562651.8
333.	-25.8	248.5	0.8	7700.7	-5.9	489322.0
	-23.2	257.8	1.1	8611.8	-8.6	489532.4
	-10.8	228.6	0.0	5741.7	-0.8	488873.1
	-8.1	237.9	0.4	6652.8	-3.5	489083.5
	-24.7	233.2	0.2	6205.5	-1.4	488978.0
	-22.0	242.6	0.5	7116.6	-4.2	489188.4
	-9.6	213.3	-0.5	4246.5	3.6	488529.1
	-6.9	222.7	-0.2	5157.6	0.9	488739.5
	-2.0	229.9	0.0	5865.0	-0.5	488898.5
	0.7	239.2	0.3	6776.0	-3.3	489108.9
	13.0	209.9	-0.7	3905.9	4.6	488449.5
	15.7	219.3	-0.4	4817.0	1.8	488659.9
	-0.8	214.6	-0.6	4369.8	3.9	488554.5
	1.8	224.0	-0.3	5280.8	1.1	488764.9
	14.2	194.7	-1.3	2410.8	9.0	488105.6
	16.9	204.0	-1.0	3321.8	6.2	488316.0
665.	-25.8	-5665.0	0.8	7700.7	-257.9	-411177.3
	-23.2	-5655.7	1.1	8611.8	-363.8	-407857.6
	-10.8	-5684.9	0.0	5741.7	-15.6	-418245.7
	-8.1	-5675.6	0.4	6652.8	-121.5	-414926.0
	-24.7	-5680.3	0.2	6205.5	-74.7	-416592.2
	-22.0	-5670.9	0.5	7116.6	-180.6	-413272.5
	-9.6	-5700.2	-0.5	4246.5	167.6	-423660.6
	-6.9	-5690.8	-0.2	5157.6	61.7	-420340.9
	-2.0	-5683.7	0.0	5865.0	8.3	-417795.4
	0.7	-5674.3	0.3	6776.0	-97.6	-414475.7
	13.0	-5703.6	-0.7	3905.9	250.6	-424863.8
	15.7	-5694.2	-0.4	4817.0	144.7	-421544.1
	-0.8	-5698.9	-0.6	4369.8	191.5	-423210.3
	1.8	-5689.6	-0.3	5280.8	85.6	-419890.6
	14.2	-5718.8	-1.3	2410.8	433.8	-430278.7
	16.9	-5709.5	-1.0	3321.8	327.9	-426959.0
Asta	231	nod	98	95		
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ
0.	-10.6	2526.8	3.6	1483.9	510.9	-447868.1
	-10.2	2546.7	5.2	2214.3	741.4	-450630.9
	-9.6	2484.6	0.0	-82.9	13.4	-441984.9
	-9.3	2504.4	1.7	647.6	243.9	-444747.6
	-11.4	2494.5	0.9	286.2	129.4	-443363.7
	-11.1	2514.3	2.5	1016.7	359.9	-446126.4
	-10.5	2452.2	-2.7	-1280.5	-368.1	-437480.4
	-10.1	2472.1	-1.0	-550.1	-137.6	-440243.1
	8.6	2487.3	-0.2	32.0	-29.4	-442374.8
	9.0	2507.2	1.5	762.5	201.2	-445137.6
	9.6	2445.1	-3.7	-1534.7	-526.8	-436491.5
	9.9	2464.9	-2.1	-804.3	-296.3	-439254.3
	7.7	2455.0	-2.9	-1165.6	-410.9	-437870.4
	8.1	2474.8	-1.2	-435.2	-180.3	-440633.1
	8.7	2412.8	-6.4	-2732.3	-908.4	-431987.1
	9.1	2432.6	-4.8	-2001.9	-677.8	-434749.8
140.	-10.6	36.9	3.6	1483.9	8.7	-268406.1
	-10.2	56.8	5.2	2214.3	8.6	-268391.2
	-9.6	-5.3	0.0	-82.9	9.3	-268437.5
	-9.3	14.5	1.7	647.6	9.2	-268422.6
	-11.4	4.6	0.9	286.2	9.7	-268429.9
	-11.1	24.4	2.5	1016.7	9.6	-268414.9
	-10.5	-37.7	-2.7	-1280.5	10.3	-268461.2
	-10.1	-17.8	-1.0	-550.1	10.2	-268446.3

	8.6	-2.6	-0.2	32.0	-9.8	-268439.2
	9.0	17.3	1.5	762.5	-9.9	-268424.3
	9.6	-44.8	-3.7	-1534.7	-9.2	-268470.6
	9.9	-25.0	-2.1	-804.3	-9.3	-268455.7
	7.7	-34.9	-2.9	-1165.6	-8.8	-268463.0
	8.1	-15.1	-1.2	-435.2	-8.9	-268448.1
	8.7	-77.1	-6.4	-2732.3	-8.2	-268494.4
	9.1	-57.3	-4.8	-2001.9	-8.3	-268479.4
280.	-10.6	-2453.0	3.6	1483.9	-497.6	-437530.2
	-10.2	-2433.1	5.2	2214.3	-728.3	-434737.7
	-9.6	-2495.2	0.0	-82.9	0.8	-443476.3
	-9.3	-2475.4	1.7	647.6	-229.9	-440683.7
	-11.4	-2485.3	0.9	286.2	-114.0	-442082.1
	-11.1	-2465.5	2.5	1016.7	-344.7	-439289.6
	-10.5	-2527.6	-2.7	-1280.5	384.5	-448028.2
	-10.1	-2507.7	-1.0	-550.1	153.8	-445235.6
	8.6	-2492.5	-0.2	32.0	14.0	-443089.5
	9.0	-2472.6	1.5	762.5	-216.7	-440296.9
	9.6	-2534.7	-3.7	-1534.7	512.4	-449035.5
	9.9	-2514.9	-2.1	-804.3	281.7	-446243.0
	7.7	-2524.8	-2.9	-1165.6	397.6	-447641.4
	8.1	-2505.0	-1.2	-435.2	166.9	-444848.8
	8.7	-2567.0	-6.4	-2732.3	896.1	-453587.4
	9.1	-2547.2	-4.8	-2001.9	665.4	-450794.9
Asta	232	nod	99	98		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-11.1	5706.4	0.6	-4147.5	204.6	-426008.9
	-11.3	5716.0	0.9	-3307.9	313.6	-429408.7
	-14.1	5686.1	-0.1	-5950.9	-37.0	-418775.4
	-14.3	5695.7	0.2	-5111.3	71.9	-422175.2
	-12.3	5690.9	0.0	-5527.0	17.0	-420467.8
	-12.5	5700.4	0.4	-4687.3	125.9	-423867.6
	-15.3	5670.6	-0.7	-7330.4	-224.7	-413234.2
	-15.5	5680.1	-0.3	-6490.7	-115.7	-416634.0
	7.8	5687.4	0.1	-5771.2	30.4	-419242.3
	7.6	5697.0	0.4	-4931.5	139.3	-422642.1
	4.8	5667.1	-0.6	-7574.6	-211.3	-412008.8
	4.6	5676.7	-0.3	-6734.9	-102.4	-415408.5
	6.7	5671.9	-0.5	-7150.7	-157.2	-413701.2
	6.4	5681.4	-0.1	-6311.0	-48.3	-417100.9
	3.6	5651.6	-1.2	-8954.1	-398.9	-406467.6
	3.4	5661.1	-0.8	-8114.4	-290.0	-409867.4
333.	-11.1	-207.1	0.6	-4147.5	8.5	488259.9
	-11.3	-197.5	0.9	-3307.9	11.0	488033.4
	-14.1	-227.4	-0.1	-5950.9	3.7	488741.2
	-14.3	-217.8	0.2	-5111.3	6.2	488514.7
	-12.3	-222.6	0.0	-5527.0	4.6	488628.7
	-12.5	-213.1	0.4	-4687.3	7.0	488402.2
	-15.3	-242.9	-0.7	-7330.4	-0.2	489110.0
	-15.5	-233.4	-0.3	-6490.7	2.2	488883.6
	7.8	-226.1	0.1	-5771.2	-4.2	488711.6
	7.6	-216.5	0.4	-4931.5	-1.7	488485.1
	4.8	-246.4	-0.6	-7574.6	-9.0	489192.9
	4.6	-236.8	-0.3	-6734.9	-6.5	488966.5
	6.7	-241.6	-0.5	-7150.7	-8.1	489080.4
	6.4	-232.1	-0.1	-6311.0	-5.7	488853.9
	3.6	-261.9	-1.2	-8954.1	-12.9	489561.7
	3.4	-252.4	-0.8	-8114.4	-10.5	489335.3
665.	-11.1	-6120.6	0.6	-4147.5	-191.8	-563714.0
	-11.3	-6111.0	0.9	-3307.9	-295.8	-560767.2
	-14.1	-6140.9	-0.1	-5950.9	40.6	-569984.9
	-14.3	-6131.4	0.2	-5111.3	-63.4	-567038.0
	-12.3	-6136.1	0.0	-5527.0	-12.1	-568517.6
	-12.5	-6126.6	0.4	-4687.3	-116.1	-565570.7
	-15.3	-6156.5	-0.7	-7330.4	220.3	-574788.4
	-15.5	-6146.9	-0.3	-6490.7	116.3	-571841.6
	7.8	-6139.6	0.1	-5771.2	-34.9	-569577.2
	7.6	-6130.0	0.4	-4931.5	-138.9	-566630.3
	4.8	-6159.9	-0.6	-7574.6	197.5	-575848.1
	4.6	-6150.3	-0.3	-6734.9	93.5	-572901.2
	6.7	-6155.1	-0.5	-7150.7	144.9	-574380.7
	6.4	-6145.6	-0.1	-6311.0	40.9	-571433.9
	3.6	-6175.4	-1.2	-8954.1	377.2	-580651.6
	3.4	-6165.9	-0.8	-8114.4	273.2	-577704.7
Asta	233	nod	100	97		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2.2	5535.6	0.8	1414.3	294.5	-303894.5
	-1.5	5553.3	1.2	2037.5	446.7	-310652.7
	2.6	5498.0	-0.1	75.5	-39.3	-289476.2
	3.3	5515.6	0.3	698.8	112.9	-296234.4
	-0.8	5506.8	0.1	390.4	38.0	-292861.4
	-0.1	5524.5	0.5	1013.6	190.2	-299619.7
	4.0	5469.1	-0.8	-948.4	-295.8	-278443.1
	4.7	5486.8	-0.4	-325.2	-143.6	-285201.4
	-13.4	5500.7	0.1	201.2	32.7	-290513.9
	-12.7	5518.3	0.5	824.4	184.9	-297272.1
	-8.6	5463.0	-0.8	-1137.6	-301.1	-276095.6
	-7.9	5480.7	-0.4	-514.4	-148.9	-282853.8
	-12.0	5471.8	-0.6	-822.8	-223.8	-279480.8

	-11.3	5489.5	-0.2	-199.5	-71.6	-286239.1
	-7.2	5434.2	-1.5	-2161.6	-557.6	-265062.5
	-6.5	5451.8	-1.1	-1538.3	-405.4	-271820.8
333.	-2.2	-494.2	0.8	1414.3	32.8	534248.5
	-1.5	-476.5	1.2	2037.5	48.2	533361.7
	2.6	-531.9	-0.1	75.5	-0.9	536140.0
	3.3	-514.2	0.3	698.8	14.5	535253.2
	-0.8	-523.0	0.1	390.4	7.0	535695.7
	-0.1	-505.4	0.5	1013.6	22.4	534808.9
	4.0	-560.7	-0.8	-948.4	-26.8	537587.1
	4.7	-543.0	-0.4	-325.2	-11.3	536700.3
	-13.4	-529.2	0.1	201.2	0.0	536004.8
	-12.7	-511.5	0.5	824.4	15.4	535118.1
	-8.6	-566.8	-0.8	-1137.6	-33.8	537896.3
	-7.9	-549.2	-0.4	-514.4	-18.3	537009.5
	-12.0	-558.0	-0.6	-822.8	-25.8	537452.0
	-11.3	-540.3	-0.2	-199.5	-10.4	536565.2
	-7.2	-595.7	-1.5	-2161.6	-59.6	539343.5
	-6.5	-578.0	-1.1	-1538.3	-44.2	538456.7
665.	-2.2	-6524.1	0.8	1414.3	-229.9	-632546.1
	-1.5	-6506.5	1.2	2037.5	-351.3	-627561.4
	2.6	-6561.8	-0.1	75.5	36.4	-643181.4
	3.3	-6544.2	0.3	698.8	-85.0	-638196.8
	-0.8	-6553.0	0.1	390.4	-25.1	-640684.8
	-0.1	-6535.3	0.5	1013.6	-146.5	-635700.2
	4.0	-6590.7	-0.8	-948.4	241.2	-651320.2
	4.7	-6573.0	-0.4	-325.2	119.8	-646335.5
	-13.4	-6559.1	0.1	201.2	-31.7	-642414.0
	-12.7	-6541.4	0.5	824.4	-153.0	-637429.4
	-8.6	-6596.8	-0.8	-1137.6	234.6	-653049.4
	-7.9	-6579.1	-0.4	-514.4	113.2	-648064.7
	-12.0	-6587.9	-0.6	-822.8	173.2	-650552.8
	-11.3	-6570.3	-0.2	-199.5	51.8	-645568.1
	-7.2	-6625.6	-1.5	-2161.6	439.5	-661188.1
	-6.5	-6608.0	-1.1	-1538.3	318.1	-656203.5
Asta	234	nod	97	96		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	1.9	2599.1	3.1	1349.3	443.3	-475084.5
	1.1	2629.2	4.6	2020.8	653.5	-479307.4
	-3.0	2534.9	-0.1	-92.4	-8.6	-466075.4
	-3.7	2565.0	1.4	579.1	201.5	-470298.2
	0.2	2550.0	0.6	247.0	95.8	-468189.9
	-0.5	2580.1	2.1	918.5	305.9	-472412.7
	-4.6	2485.7	-2.6	-1194.7	-356.1	-459180.8
	-5.3	2515.9	-1.1	-523.2	-146.0	-463403.6
	4.4	2539.5	0.0	20.3	-10.1	-466720.8
	3.7	2569.6	1.5	691.8	200.1	-470943.7
	-0.4	2475.3	-3.2	-1421.4	-462.0	-457711.7
	-1.2	2505.4	-1.7	-749.9	-251.9	-461934.5
	2.8	2490.4	-2.5	-1082.0	-357.6	-459826.2
	2.0	2520.5	-1.0	-410.5	-147.5	-464049.1
	-2.1	2426.2	-5.7	-2523.7	-809.5	-450817.1
	-2.8	2456.3	-4.2	-1852.2	-599.4	-455039.9
140.	1.9	60.2	3.1	1349.3	9.8	-288933.2
	1.1	90.3	4.6	2020.8	9.4	-288941.6
	-3.0	-4.0	-0.1	-92.4	8.4	-288913.8
	-3.7	26.1	1.4	579.1	8.0	-288922.1
	0.2	11.1	0.6	247.0	10.6	-288918.6
	-0.5	41.2	2.1	918.5	10.2	-288927.0
	-4.6	-53.2	-2.6	-1194.7	9.2	-288899.1
	-5.3	-23.0	-1.1	-523.2	8.8	-288907.5
	4.4	0.6	0.0	20.3	-8.8	-288909.5
	3.7	30.7	1.5	691.8	-9.2	-288917.8
	-0.4	-63.6	-3.2	-1421.4	-10.2	-288890.0
	-1.2	-33.5	-1.7	-749.9	-10.6	-288898.4
	2.8	-48.5	-2.5	-1082.0	-8.0	-288894.8
	2.0	-18.4	-1.0	-410.5	-8.4	-288903.2
	-2.1	-112.7	-5.7	-2523.7	-9.3	-288875.3
	-2.8	-82.6	-4.2	-1852.2	-9.8	-288883.7
280.	1.9	-2478.7	3.1	1349.3	-430.1	-458227.3
	1.1	-2448.6	4.6	2020.8	-641.0	-454021.3
	-3.0	-2542.9	-0.1	-92.4	22.0	-467197.8
	-3.7	-2512.8	1.4	579.1	-189.0	-462991.8
	0.2	-2527.8	0.6	247.0	-80.9	-465092.6
	-0.5	-2497.7	2.1	918.5	-291.8	-460886.6
	-4.6	-2592.1	-2.6	-1194.7	371.2	-474063.1
	-5.3	-2561.9	-1.1	-523.2	160.2	-469857.1
	4.4	-2538.3	0.0	20.3	-4.1	-466544.3
	3.7	-2508.2	1.5	691.8	-215.0	-462338.3
	-0.4	-2602.5	-3.2	-1421.4	448.0	-475514.9
	-1.2	-2572.4	-1.7	-749.9	237.1	-471308.8
	2.8	-2587.4	-2.5	-1082.0	345.1	-473409.6
	2.0	-2557.3	-1.0	-410.5	134.2	-469203.6
	-2.1	-2651.6	-5.7	-2523.7	797.2	-482380.2
	-2.8	-2621.5	-4.2	-1852.2	586.3	-478174.1
Asta	235	nod	96	93		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-26.5	6595.0	0.9	1073.3	274.2	-652606.2
	-24.9	6612.7	1.3	1692.4	392.9	-657616.2

	-17.8	6557.1	0.0	-258.6	8.1	-641914.7
	-16.1	6574.9	0.4	360.6	126.8	-646924.6
	-26.9	6566.0	0.2	56.6	75.0	-644425.7
	-25.2	6583.7	0.6	675.8	193.8	-649435.6
	-18.1	6528.1	-0.7	-1275.2	-191.1	-633734.1
	-16.5	6545.9	-0.3	-656.0	-72.4	-638744.1
	7.5	6559.8	0.0	-168.0	-14.3	-642667.1
	9.2	6577.5	0.4	451.2	104.4	-647677.1
	16.3	6521.9	-0.9	-1499.8	-280.4	-631975.6
	18.0	6539.6	-0.5	-880.7	-161.7	-636985.5
	7.2	6530.8	-0.7	-1184.6	-213.4	-634486.6
	8.9	6548.5	-0.3	-565.5	-94.7	-639496.5
	15.9	6492.9	-1.6	-2516.4	-479.6	-623795.0
	17.6	6510.7	-1.2	-1897.3	-360.9	-628805.0
333.	-26.5	565.0	0.9	1073.3	-31.9	537740.1
	-24.9	582.8	1.3	1692.4	-47.3	538629.8
	-17.8	527.2	0.0	-258.6	2.0	535839.6
	-16.1	544.9	0.4	360.6	-13.4	536729.3
	-26.9	536.0	0.2	56.6	-5.8	536286.5
	-25.2	553.8	0.6	675.8	-21.2	537176.2
	-18.1	498.2	-0.7	-1275.2	28.0	534386.0
	-16.5	515.9	-0.3	-656.0	12.6	535275.7
	7.5	529.8	0.0	-168.0	-0.8	535966.7
	9.2	547.5	0.4	451.2	-16.2	536856.4
	16.3	491.9	-0.9	-1499.8	33.0	534066.2
	18.0	509.7	-0.5	-880.7	17.7	534955.9
	7.2	500.8	-0.7	-1184.6	25.2	534513.1
	8.9	518.6	-0.3	-565.5	9.8	535402.8
	15.9	463.0	-1.6	-2516.4	59.1	532612.6
	17.6	480.7	-1.2	-1897.3	43.7	533502.3
665.	-26.5	-5464.8	0.9	1073.3	-337.7	-276851.3
	-24.9	-5447.1	1.3	1692.4	-487.2	-270061.9
	-17.8	-5502.7	0.0	-258.6	-3.8	-291343.8
	-16.1	-5484.9	0.4	360.6	-153.2	-284554.4
	-26.9	-5493.8	0.2	56.6	-86.4	-287939.0
	-25.2	-5476.0	0.6	675.8	-235.9	-281149.6
	-18.1	-5531.6	-0.7	-1275.2	247.5	-302431.5
	-16.5	-5513.9	-0.3	-656.0	98.1	-295642.1
	7.5	-5500.0	0.0	-168.0	12.2	-290337.1
	9.2	-5482.3	0.4	451.2	-137.2	-283547.8
	16.3	-5537.9	-0.9	-1499.8	346.2	-304829.6
	18.0	-5520.1	-0.5	-880.7	196.7	-298040.3
	7.2	-5529.0	-0.7	-1184.6	263.5	-301424.8
	8.9	-5511.3	-0.3	-565.5	114.1	-294635.4
	15.9	-5566.9	-1.6	-2516.4	597.5	-315917.3
	17.6	-5549.1	-1.2	-1897.3	448.0	-309127.9
Asta	236	nod1	169	116		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.2	4193.5	1.9	-7936.5	626.6	-157286.4
	-1.1	4157.7	2.9	-7244.5	935.7	-145886.9
	3.3	4270.9	-0.1	-9425.3	-35.1	-181945.7
	3.4	4235.1	0.8	-8733.3	274.0	-170546.2
	-5.6	4251.8	0.4	-9071.9	112.8	-175857.3
	-5.5	4216.0	1.3	-8379.9	421.9	-164457.7
	-1.2	4329.2	-1.7	-10560.7	-548.9	-200516.6
	-1.0	4293.4	-0.7	-9868.7	-239.8	-189117.0
	-5.6	4263.7	0.0	-9305.0	12.2	-179632.8
	-5.5	4227.9	1.0	-8613.0	321.3	-168233.2
	-1.1	4341.1	-2.0	-10793.8	-649.5	-204292.1
	-1.0	4305.3	-1.0	-10101.8	-340.4	-192892.6
	-10.0	4322.0	-1.5	-10440.4	-501.6	-198203.6
	-9.9	4286.2	-0.6	-9748.3	-192.5	-186804.1
	-5.6	4399.4	-3.6	-11929.2	-1163.3	-222862.9
	-5.4	4363.6	-2.6	-11237.1	-854.2	-211463.4
285.	-1.2	-373.3	1.9	-7936.5	79.2	384447.0
	-1.1	-409.1	2.9	-7244.5	119.6	385643.5
	3.3	-295.9	-0.1	-9425.3	-7.7	381857.6
	3.4	-331.7	0.8	-8733.3	32.7	383054.1
	-5.6	-315.0	0.4	-9071.9	12.8	382499.5
	-5.5	-350.8	1.3	-8379.9	53.3	383696.0
	-1.2	-237.6	-1.7	-10560.7	-74.0	379910.1
	-1.0	-273.4	-0.7	-9868.7	-33.6	381106.6
	-5.6	-303.1	0.0	-9305.0	3.8	382107.0
	-5.5	-338.9	1.0	-8613.0	44.3	383303.5
	-1.1	-225.7	-2.0	-10793.8	-83.0	379517.6
	-1.0	-261.5	-1.0	-10101.8	-42.6	380714.1
	-10.0	-244.8	-1.5	-10440.4	-62.5	380159.6
	-9.9	-280.6	-0.6	-9748.3	-22.1	381356.1
	-5.6	-167.4	-3.6	-11929.2	-149.3	377570.1
	-5.4	-203.2	-2.6	-11237.1	-108.9	378766.6
570.	-1.2	-4828.3	1.9	-7936.5	-468.4	-359473.1
	-1.1	-4864.1	2.9	-7244.5	-696.6	-368479.7
	3.3	-4750.9	-0.1	-9425.3	19.6	-339992.7
	3.4	-4786.7	0.8	-8733.3	-208.6	-348999.3
	-5.6	-4770.0	0.4	-9071.9	-87.2	-344797.2
	-5.5	-4805.8	1.3	-8379.9	-315.5	-353803.8
	-1.2	-4692.6	-1.7	-10560.7	400.8	-325316.8
	-1.0	-4728.4	-0.7	-9868.7	172.5	-334323.4
	-5.6	-4758.1	0.0	-9305.0	-4.5	-341806.7
	-5.5	-4793.9	1.0	-8613.0	-232.7	-350813.3

	-1.1	-4680.7	-2.0	-10793.8	483.5	-322326.3
	-1.0	-4716.5	-1.0	-10101.8	255.3	-331332.9
	-10.0	-4699.8	-1.5	-10440.4	376.7	-327130.8
	-9.9	-4735.6	-0.6	-9748.3	148.5	-336137.4
	-5.6	-4622.4	-3.6	-11929.2	864.7	-307650.4
	-5.4	-4658.2	-2.6	-11237.1	636.5	-316657.0
Asta	237	nod	169	158		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4.8	1570.7	3.5	-28095.1	596.6	-86165.1
	-5.0	1591.6	5.2	-28004.9	896.4	-89736.5
	-8.8	1525.6	-0.3	-28289.7	-52.9	-78463.8
	-9.0	1546.5	1.4	-28199.5	246.9	-82035.2
	-1.0	1536.4	0.7	-28242.3	113.2	-80316.9
	-1.2	1557.3	2.4	-28152.1	413.0	-83888.3
	-5.1	1491.3	-3.1	-28436.9	-536.2	-72615.5
	-5.2	1512.2	-1.4	-28346.7	-236.4	-76186.9
	0.7	1530.8	0.1	-28273.2	11.8	-79359.4
	0.5	1551.7	1.8	-28183.0	311.6	-82930.8
	-3.4	1485.7	-3.7	-28467.8	-637.6	-71658.0
	-3.5	1506.6	-1.9	-28377.5	-337.8	-75229.4
	4.5	1496.5	-2.7	-28420.4	-471.5	-73511.1
	4.3	1517.5	-1.0	-28330.2	-171.7	-77082.5
	0.4	1451.4	-6.5	-28615.0	-1121.0	-65809.7
	0.2	1472.3	-4.8	-28524.8	-821.2	-69381.1
162.	-4.8	55.2	3.5	-28095.1	37.1	45247.8
	-5.0	76.1	5.2	-28004.9	56.6	45058.6
	-8.8	10.1	-0.3	-28289.7	-6.6	45656.1
	-9.0	31.0	1.4	-28199.5	12.9	45466.9
	-1.0	20.9	0.7	-28242.3	7.5	45557.1
	-1.2	41.9	2.4	-28152.1	27.1	45367.9
	-5.1	-24.2	-3.1	-28436.9	-36.2	45965.5
	-5.2	-3.2	-1.4	-28346.7	-16.7	45776.3
	0.7	15.3	0.1	-28273.2	0.5	45606.7
	0.5	36.3	1.8	-28183.0	20.1	45417.5
	-3.4	-29.8	-3.7	-28467.8	-43.2	46015.0
	-3.5	-8.9	-1.9	-28377.5	-23.7	45825.8
	4.5	-18.9	-2.7	-28420.4	-29.1	45916.0
	4.3	2.0	-1.0	-28330.2	-9.5	45726.8
	0.4	-64.0	-6.5	-28615.0	-72.8	46324.4
	0.2	-43.1	-4.8	-28524.8	-53.2	46135.1
323.	-4.8	-1460.3	3.5	-28095.1	-522.4	-68314.7
	-5.0	-1439.3	5.2	-28004.9	-783.2	-65121.8
	-8.8	-1505.4	-0.3	-28289.7	39.7	-75199.5
	-9.0	-1484.4	1.4	-28199.5	-221.0	-72006.5
	-1.0	-1494.5	0.7	-28242.3	-98.3	-73544.3
	-1.2	-1473.6	2.4	-28152.1	-359.0	-70351.4
	-5.1	-1539.6	-3.1	-28436.9	463.9	-80429.1
	-5.2	-1518.7	-1.4	-28346.7	203.1	-77236.1
	0.7	-1500.1	0.1	-28273.2	-10.8	-74402.7
	0.5	-1479.2	1.8	-28183.0	-271.5	-71209.7
	-3.4	-1545.3	-3.7	-28467.8	551.3	-81287.5
	-3.5	-1524.3	-1.9	-28377.5	290.6	-78094.5
	4.5	-1534.4	-2.7	-28420.4	413.4	-79632.3
	4.3	-1513.5	-1.0	-28330.2	152.6	-76439.4
	0.4	-1579.5	-6.5	-28615.0	975.5	-86517.1
	0.2	-1558.6	-4.8	-28524.8	714.8	-83324.1
Asta	238	nod	158	159		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-7.4	1598.4	2.9	1300.9	462.8	-94839.4
	-7.7	1616.2	4.4	1429.1	693.8	-97717.8
	-16.9	1559.8	-0.3	1023.4	-45.5	-88636.1
	-17.2	1577.7	1.2	1151.5	185.5	-91514.5
	-1.3	1569.0	0.6	1092.9	99.9	-90121.3
	-1.6	1586.9	2.1	1221.0	330.9	-92999.7
	-10.7	1530.5	-2.6	815.4	-408.4	-83918.0
	-11.0	1548.4	-1.1	943.5	-177.5	-86796.3
	3.3	1564.3	-0.1	1048.8	-8.2	-89355.1
	3.0	1582.1	1.4	1177.0	222.8	-92233.5
	-6.1	1525.7	-3.2	771.3	-516.5	-83151.8
	-6.5	1543.6	-1.8	899.4	-285.5	-86030.1
	9.5	1534.9	-2.3	840.8	-371.1	-84637.0
	9.1	1552.8	-0.9	969.0	-140.1	-87515.3
	0.0	1496.4	-5.5	563.3	-879.5	-78433.6
	-0.3	1514.3	-4.1	691.4	-648.5	-81312.0
162.	-7.4	82.4	2.9	1300.9	-8.6	41050.6
	-7.7	100.3	4.4	1429.1	-12.8	41065.3
	-16.9	43.9	-0.3	1023.4	-0.9	41019.4
	-17.2	61.8	1.2	1151.5	-5.1	41034.1
	-1.3	53.1	0.6	1092.9	-1.2	41025.9
	-1.6	71.0	2.1	1221.0	-5.4	41040.6
	-10.7	14.5	-2.6	815.4	6.5	40994.7
	-11.0	32.4	-1.1	943.5	2.3	41009.4
	3.3	48.3	-0.1	1048.8	-0.3	41021.2
	3.0	66.2	1.4	1177.0	-4.5	41035.9
	-6.1	9.8	-3.2	771.3	7.5	40990.0
	-6.5	27.7	-1.8	899.4	3.2	41004.7
	9.5	19.0	-2.3	840.8	7.2	40996.5
	9.1	36.9	-0.9	969.0	2.9	41011.2
	0.0	-19.6	-5.5	563.3	14.9	40965.3

323.	-0.3	-1.7	-4.1	691.4	10.6	40980.0
	-7.4	-1433.5	2.9	1300.9	-479.3	-68186.5
	-7.7	-1415.6	4.4	1429.1	-718.7	-65278.8
	-16.9	-1472.1	-0.3	1023.4	43.1	-74452.2
	-17.2	-1454.2	1.2	1151.5	-196.3	-71544.4
	-1.3	-1462.9	0.6	1092.9	-101.5	-72954.0
	-1.6	-1445.0	2.1	1221.0	-340.9	-70046.2
	-10.7	-1501.4	-2.6	815.4	420.9	-79219.7
	-11.0	-1483.5	-1.1	943.5	181.5	-76311.9
	3.3	-1467.6	-0.1	1048.8	8.3	-73729.6
	3.0	-1449.7	1.4	1177.0	-231.1	-70821.9
	-6.1	-1506.2	-3.2	771.3	530.7	-79995.3
	-6.5	-1488.3	-1.8	899.4	291.2	-77087.6
	9.5	-1497.0	-2.3	840.8	386.1	-78497.1
	9.1	-1479.1	-0.9	969.0	146.6	-75589.4
	0.0	-1535.5	-5.5	563.3	908.5	-84762.8
	-0.3	-1517.6	-4.1	691.4	669.0	-81855.1
Asta PROGR. 0.	239	nodj	159	160		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-6.3	1561.4	3.1	-304.7	502.4	-89137.2
	-6.9	1579.3	4.6	-170.1	746.2	-92036.3
	-18.3	1522.8	-0.3	-596.6	-40.5	-82893.6
	-18.9	1540.7	1.2	-462.1	203.4	-85792.6
	-0.7	1532.0	0.7	-523.4	112.5	-84380.9
	-1.3	1549.9	2.2	-388.9	356.3	-87279.9
	-12.8	1493.3	-2.7	-815.4	-430.4	-78137.3
	-13.3	1511.3	-1.2	-680.9	-186.5	-81036.3
	6.5	1527.2	0.0	-570.2	-3.1	-83610.6
	5.9	1545.1	1.5	-435.6	240.8	-86509.6
	-5.5	1488.6	-3.4	-862.2	-545.9	-77366.9
	-6.1	1506.5	-1.9	-727.6	-302.0	-80265.9
	12.1	1497.8	-2.4	-789.0	-393.0	-78854.2
	11.5	1515.7	-0.9	-654.4	-149.1	-81753.2
	0.1	1459.2	-5.8	-1081.0	-935.8	-72610.6
	-0.5	1477.1	-4.3	-946.4	-691.9	-75509.6
162.	-6.3	45.9	3.1	-304.7	0.3	40772.9
	-6.9	63.8	4.6	-170.1	1.4	40772.5
	-18.3	7.3	-0.3	-596.6	3.6	40774.8
	-18.9	25.2	1.2	-462.1	4.7	40774.4
	-0.7	16.5	0.7	-523.4	-1.9	40773.0
	-1.3	34.4	2.2	-388.9	-0.8	40772.6
	-12.8	-22.1	-2.7	-815.4	1.4	40774.9
	-13.3	-4.2	-1.2	-680.9	2.5	40774.5
	6.5	11.7	0.0	-570.2	-1.8	40771.5
	5.9	29.7	1.5	-435.6	-0.7	40771.1
	-5.5	-26.9	-3.4	-862.2	1.5	40773.4
	-6.1	-9.0	-1.9	-727.6	2.6	40773.0
	12.1	-17.7	-2.4	-789.0	-4.0	40771.6
	11.5	0.2	-0.9	-654.4	-2.9	40771.2
	0.1	-56.3	-5.8	-1081.0	-0.7	40773.5
	-0.5	-38.4	-4.3	-946.4	0.4	40773.1
323.	-6.3	-1469.6	3.1	-304.7	-499.8	-74292.3
	-6.9	-1451.6	4.6	-170.1	-741.4	-71394.1
	-18.3	-1508.2	-0.3	-596.6	42.4	-80532.9
	-18.9	-1490.2	1.2	-462.1	-199.3	-77634.7
	-0.7	-1499.0	0.7	-523.4	-114.3	-79048.4
	-1.3	-1481.0	2.2	-388.9	-355.9	-76150.2
	-12.8	-1537.6	-2.7	-815.4	427.9	-85289.0
	-13.3	-1519.7	-1.2	-680.9	186.2	-82390.8
	6.5	-1503.7	0.0	-570.2	4.8	-79821.4
	5.9	-1485.8	1.5	-435.6	-236.9	-76923.1
	-5.5	-1542.4	-3.4	-862.2	546.9	-86062.0
	-6.1	-1524.4	-1.9	-727.6	305.2	-83163.8
	12.1	-1533.2	-2.4	-789.0	390.2	-84577.4
	11.5	-1515.2	-0.9	-654.4	148.6	-81679.2
	0.1	-1571.8	-5.8	-1081.0	932.4	-90818.1
	-0.5	-1553.9	-4.3	-946.4	690.7	-87919.8
Asta PROGR. 0.	240	nodj	160	161		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-4.1	1541.8	3.1	673.1	499.3	-85649.7
	-5.0	1559.7	4.6	800.3	744.1	-88547.0
	-20.1	1503.2	-0.2	399.8	-24.9	-79415.6
	-21.1	1521.1	1.3	527.1	219.9	-82312.9
	1.5	1512.3	0.7	466.3	111.3	-80893.1
	0.5	1530.3	2.2	593.5	356.1	-83790.3
	-14.6	1473.8	-2.6	193.0	-412.8	-74659.0
	-15.6	1491.7	-1.0	320.2	-168.0	-77556.2
	9.4	1507.5	-0.1	422.3	-16.5	-80115.2
	8.4	1525.4	1.4	549.5	228.3	-83012.5
	-6.7	1468.9	-3.4	149.0	-540.6	-73881.1
	-7.6	1486.9	-1.9	276.2	-295.8	-76778.3
	14.9	1478.1	-2.5	215.4	-404.4	-75358.6
	13.9	1496.0	-1.0	342.6	-159.6	-78255.8
	-1.1	1439.5	-5.8	-57.9	-928.5	-69124.5
	-2.1	1457.4	-4.2	69.3	-683.7	-72021.7
162.	-4.1	26.3	3.1	673.1	-6.7	41090.7
	-5.0	44.2	4.6	800.3	-6.0	41092.0
	-20.1	-12.3	-0.2	399.8	3.5	41088.3
	-21.1	5.7	1.3	527.1	4.2	41089.6

	1.5	-3.1	0.7	466.3	-8.7	41088.1
	0.5	14.8	2.2	593.5	-8.0	41089.4
	-14.6	-41.7	-2.6	193.0	1.5	41085.6
	-15.6	-23.8	-1.0	320.2	2.2	41086.9
	9.4	-8.0	-0.1	422.3	-1.6	41086.2
	8.4	10.0	1.4	549.5	-0.9	41087.5
	-6.7	-46.5	-3.4	149.0	8.6	41083.7
	-7.6	-28.6	-1.9	276.2	9.3	41085.0
	14.9	-37.4	-2.5	215.4	-3.6	41083.5
	13.9	-19.5	-1.0	342.6	-2.9	41084.8
	-1.1	-76.0	-5.8	-57.9	6.6	41081.0
	-2.1	-58.0	-4.2	69.3	7.3	41082.4
323.	-4.1	-1489.2	3.1	673.1	-504.7	-77145.2
	-5.0	-1471.2	4.6	800.3	-748.1	-74245.3
	-20.1	-1527.7	-0.2	399.8	28.3	-83382.8
	-21.1	-1509.8	1.3	527.1	-215.1	-80482.9
	1.5	-1518.6	0.7	466.3	-120.8	-81907.1
	0.5	-1500.7	2.2	593.5	-364.2	-79007.2
	-14.6	-1557.2	-2.6	193.0	412.2	-88144.7
	-15.6	-1539.3	-1.0	320.2	168.8	-85244.8
	9.4	-1523.4	-0.1	422.3	16.8	-82688.7
	8.4	-1505.5	1.4	549.5	-226.7	-79788.8
	-6.7	-1562.0	-3.4	149.0	549.7	-88926.2
	-7.6	-1544.1	-1.9	276.2	306.3	-86026.4
	14.9	-1552.9	-2.5	215.4	400.6	-87450.6
	13.9	-1534.9	-1.0	342.6	157.2	-84550.7
	-1.1	-1591.4	-5.8	-57.9	933.6	-93688.1
	-2.1	-1573.5	-4.2	69.3	690.2	-90788.3
Asta	241	nod1	161	162		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2.9	1516.4	3.1	2449.7	509.4	-81959.3
	-3.5	1534.2	4.6	2587.3	756.4	-84858.5
	-13.5	1478.1	0.0	2157.0	3.4	-75728.3
	-14.1	1495.9	1.5	2294.6	250.5	-78627.5
	0.9	1487.2	0.7	2225.0	109.6	-77197.6
	0.4	1505.0	2.2	2362.6	356.6	-80096.8
	-9.7	1448.9	-2.5	1932.3	-396.4	-70966.6
	-10.2	1466.7	-0.9	2069.9	-149.3	-73865.7
	6.8	1482.3	-0.2	2177.9	-32.7	-76408.3
	6.3	1500.1	1.3	2315.5	214.3	-79307.5
	-3.8	1444.1	-3.3	1885.2	-538.7	-70177.2
	-4.3	1461.9	-1.8	2022.8	-291.7	-73076.4
	10.7	1453.1	-2.7	1953.2	-432.5	-71646.5
	10.1	1470.9	-1.1	2090.8	-185.5	-74545.7
	0.1	1414.8	-5.8	1660.4	-938.5	-65415.5
	-0.5	1432.6	-4.3	1798.0	-691.4	-68314.7
162.	-2.9	0.5	3.1	2449.7	3.4	40679.5
	-3.5	18.3	4.6	2587.3	3.9	40659.3
	-13.5	-37.8	0.0	2157.0	4.9	40723.4
	-14.1	-20.0	1.5	2294.6	5.4	40703.2
	0.9	-28.8	0.7	2225.0	1.2	40712.3
	0.4	-11.0	2.2	2362.6	1.7	40692.1
	-9.7	-67.0	-2.5	1932.3	2.6	40756.2
	-10.2	-49.2	-0.9	2069.9	3.1	40736.0
	6.8	-33.6	-0.2	2177.9	-0.2	40718.3
	6.3	-15.8	1.3	2315.5	0.3	40698.1
	-3.8	-71.9	-3.3	1885.2	1.3	40762.2
	-4.3	-54.1	-1.8	2022.8	1.8	40742.0
	10.7	-62.9	-2.7	1953.2	-2.4	40751.1
	10.1	-45.1	-1.1	2090.8	-1.9	40730.9
	0.1	-101.1	-5.8	1660.4	-0.9	40795.0
	-0.5	-83.3	-4.3	1798.0	-0.4	40774.8
323.	-2.9	-1515.5	3.1	2449.7	-500.8	-81808.6
	-3.5	-1497.7	4.6	2587.3	-746.8	-78949.9
	-13.5	-1553.7	0.0	2157.0	4.5	-87951.9
	-14.1	-1535.9	1.5	2294.6	-241.5	-85093.1
	0.9	-1544.7	0.7	2225.0	-105.5	-86504.9
	0.4	-1526.9	2.2	2362.6	-351.5	-83646.1
	-9.7	-1583.0	-2.5	1932.3	399.8	-92648.1
	-10.2	-1565.2	-0.9	2069.9	153.8	-89789.4
	6.8	-1549.6	-0.2	2177.9	34.2	-87282.2
	6.3	-1531.8	1.3	2315.5	-211.9	-84423.4
	-3.8	-1587.8	-3.3	1885.2	539.5	-93425.4
	-4.3	-1570.0	-1.8	2022.8	293.4	-90566.7
	10.7	-1578.8	-2.7	1953.2	429.5	-91978.4
	10.1	-1561.0	-1.1	2090.8	183.4	-89119.6
	0.1	-1617.1	-5.8	1660.4	934.8	-98121.7
	-0.5	-1599.3	-4.3	1798.0	688.8	-95262.9
Asta	242	nod1	162	163		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.6	1563.1	3.2	42901.4	509.3	-84174.3
	-1.8	1584.5	4.7	43150.6	757.1	-87421.7
	-6.2	1517.0	-0.2	42369.7	-25.0	-77200.9
	-6.4	1538.5	1.4	42618.9	222.8	-80448.3
	-0.3	1527.9	0.6	42494.4	105.9	-78840.2
	-0.5	1549.3	2.2	42743.7	353.7	-82087.6
	-4.9	1481.8	-2.7	41962.7	-428.4	-71866.8
	-5.1	1503.3	-1.1	42212.0	-180.6	-75114.2
	5.9	1521.9	0.1	42408.2	14.8	-77943.5

	5.7	1543.4	1.6	42657.4	262.6	-81190.9
	1.3	1475.9	-3.3	41876.5	-519.5	-70970.1
	1.1	1497.3	-1.7	42125.8	-271.7	-74217.5
	7.2	1486.7	-2.5	42001.3	-388.6	-72609.4
	7.0	1508.1	-0.9	42250.5	-140.8	-75856.8
	2.6	1440.6	-5.8	41469.6	-922.9	-65636.0
	2.4	1462.1	-4.2	41718.8	-675.1	-68883.4
162.	-1.6	47.6	3.2	42901.4	-6.2	46012.8
	-1.8	69.1	4.7	43150.6	-10.5	46232.9
	-6.2	1.6	-0.2	42369.7	1.6	45540.5
	-6.4	23.0	1.4	42618.9	-2.7	45760.6
	-0.3	12.4	0.6	42494.4	0.8	45651.1
	-0.5	33.8	2.2	42743.7	-3.5	45871.2
	-4.9	-33.7	-2.7	41962.7	8.5	45178.8
	-5.1	-12.2	-1.1	42212.0	4.3	45398.9
	5.9	6.5	0.1	42408.2	1.4	45589.4
	5.7	27.9	1.6	42657.4	-2.8	45809.5
	1.3	-39.6	-3.3	41876.5	9.2	45117.1
	1.1	-18.1	-1.7	42125.8	4.9	45337.2
	7.2	-28.8	-2.5	42001.3	8.4	45227.8
	7.0	-7.3	-0.9	42250.5	4.1	45447.8
	2.6	-74.8	-5.8	41469.6	16.2	44755.5
	2.4	-53.4	-4.2	41718.8	11.9	44975.5
323.	-1.6	-1467.8	3.2	42901.4	-520.8	-68775.6
	-1.8	-1446.4	4.7	43150.6	-777.2	-65088.0
	-6.2	-1513.9	-0.2	42369.7	27.3	-76693.6
	-6.4	-1492.4	1.4	42618.9	-229.1	-73006.0
	-0.3	-1503.1	0.6	42494.4	-103.4	-74833.0
	-0.5	-1481.6	2.2	42743.7	-359.8	-71145.5
	-4.9	-1549.1	-2.7	41962.7	444.7	-82751.0
	-5.1	-1527.7	-1.1	42212.0	188.3	-79063.5
	5.9	-1509.0	0.1	42408.2	-11.1	-75853.1
	5.7	-1487.6	1.6	42657.4	-267.5	-72165.6
	1.3	-1555.1	-3.3	41876.5	537.0	-83771.1
	1.1	-1533.6	-1.7	42125.8	280.6	-80083.6
	7.2	-1544.2	-2.5	42001.3	406.2	-81910.6
	7.0	-1522.8	-0.9	42250.5	149.9	-78223.0
	2.6	-1590.3	-5.8	41469.6	954.3	-89828.6
	2.4	-1568.8	-4.2	41718.8	698.0	-86141.0
Asta	243	nod1	163	99		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	1.2	-295.3	7.6	14448.4	752.6	63709.7
	1.5	-267.1	11.4	14647.0	1130.5	60675.3
	4.1	-355.4	-0.6	14022.3	-60.1	70184.6
	4.4	-327.2	3.2	14220.9	317.8	67150.2
	1.2	-341.3	1.4	14123.1	131.5	68665.8
	1.4	-313.1	5.2	14321.7	509.5	65631.4
	4.1	-401.4	-6.8	13696.9	-681.2	75140.7
	4.3	-373.2	-3.0	13895.6	-303.2	72106.3
	-4.1	-350.6	0.2	14058.9	20.2	69686.8
	-3.8	-322.5	4.0	14257.5	398.2	66652.3
	-1.2	-410.7	-7.9	13632.8	-792.5	76161.7
	-0.9	-382.6	-4.1	13831.4	-414.6	73127.2
	-4.1	-396.6	-6.0	13733.5	-600.9	74642.9
	-3.9	-368.4	-2.2	13932.2	-222.9	71608.4
	-1.2	-456.7	-14.2	13307.4	-1413.6	81117.8
	-1.0	-428.5	-10.4	13506.1	-1035.6	78083.3
88.	1.2	-1709.7	7.6	14448.4	87.8	-24009.2
	1.5	-1681.6	11.4	14647.0	134.1	-24581.1
	4.1	-1769.8	-0.6	14022.3	-11.2	-22792.1
	4.4	-1741.7	3.2	14220.9	35.1	-23364.0
	1.2	-1755.7	1.4	14123.1	10.9	-23076.9
	1.4	-1727.6	5.2	14321.7	57.2	-23648.8
	4.1	-1815.8	-6.8	13696.9	-88.2	-21859.8
	4.3	-1787.7	-3.0	13895.6	-41.9	-22431.7
	-4.1	-1765.0	0.2	14058.9	0.6	-22873.0
	-3.8	-1736.9	4.0	14257.5	46.9	-23444.8
	-1.2	-1825.1	-7.9	13632.8	-98.5	-21655.9
	-0.9	-1797.0	-4.1	13831.4	-52.2	-22227.7
	-4.1	-1811.0	-6.0	13733.5	-76.4	-21940.7
	-3.9	-1782.9	-2.2	13932.2	-30.0	-22512.5
	-1.2	-1871.1	-14.2	13307.4	-175.4	-20723.6
	-1.0	-1843.0	-10.4	13506.1	-129.1	-21295.4
175.	1.2	-3124.2	7.6	14448.4	-577.1	-235491.4
	1.5	-3096.0	11.4	14647.0	-862.4	-233600.6
	4.1	-3184.2	-0.6	14022.3	37.6	-239532.1
	4.4	-3156.1	3.2	14220.9	-247.8	-237641.3
	1.2	-3170.1	1.4	14123.1	-109.9	-238582.9
	1.4	-3142.0	5.2	14321.7	-395.2	-236692.1
	4.1	-3230.2	-6.8	13696.9	504.8	-242623.6
	4.3	-3202.1	-3.0	13895.6	219.4	-240732.8
	-4.1	-3179.5	0.2	14058.9	-18.9	-239196.0
	-3.8	-3151.3	4.0	14257.5	-304.3	-237305.2
	-1.2	-3239.6	-7.9	13632.8	595.7	-243236.8
	-0.9	-3211.4	-4.1	13831.4	310.3	-241346.0
	-4.1	-3225.5	-6.0	13733.5	448.3	-242287.5
	-3.9	-3197.3	-2.2	13932.2	162.9	-240396.7
	-1.2	-3285.6	-14.2	13307.4	1062.9	-246328.3
	-1.0	-3257.4	-10.4	13506.1	777.6	-244437.5

Asta	244	nod1	99	100		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	1.6	1612.6	1.7	-7173.3	279.6	-88578.8
	1.9	1628.8	2.6	-7002.9	412.9	-91518.7
	4.0	1577.7	0.0	-7537.5	3.5	-82264.1
	4.4	1593.9	0.8	-7367.1	136.8	-85204.0
	2.9	1585.9	0.4	-7451.7	70.0	-83745.4
	3.3	1602.1	1.3	-7281.3	203.2	-86685.3
	5.3	1551.0	-1.3	-7815.9	-206.1	-77430.7
	5.7	1567.2	-0.5	-7645.5	-72.8	-80370.6
	-10.0	1581.6	-0.2	-7509.9	-30.2	-82963.3
	-9.6	1597.8	0.7	-7339.5	103.1	-85903.2
	-7.5	1546.7	-1.9	-7874.1	-306.2	-76648.6
	-7.1	1562.9	-1.1	-7703.7	-173.0	-79588.5
	-8.6	1554.9	-1.5	-7788.3	-239.8	-78129.9
	-8.2	1571.1	-0.6	-7617.9	-106.5	-81069.8
	-6.2	1520.0	-3.2	-8152.5	-515.9	-71815.2
	-5.8	1536.2	-2.4	-7982.1	-382.6	-74755.0
173.	1.6	-4.6	1.7	-7173.3	-21.4	50109.1
	1.9	11.6	2.6	-7002.9	-32.6	49970.1
	4.0	-39.5	0.0	-7537.5	2.9	50407.5
	4.4	-23.2	0.8	-7367.1	-8.3	50268.5
	2.9	-31.3	0.4	-7451.7	-3.2	50337.3
	3.3	-15.1	1.3	-7281.3	-14.4	50198.3
	5.3	-66.2	-1.3	-7815.9	21.1	50635.7
	5.7	-49.9	-0.5	-7645.5	9.9	50496.6
	-10.0	-35.6	-0.2	-7509.9	-2.1	50376.6
	-9.6	-19.4	0.7	-7339.5	-13.3	50237.6
	-7.5	-70.5	-1.9	-7874.1	22.2	50675.0
	-7.1	-54.2	-1.1	-7703.7	11.0	50535.9
	-8.6	-62.3	-1.5	-7788.3	16.2	50604.8
	-8.2	-46.1	-0.6	-7617.9	5.0	50465.8
	-6.2	-97.2	-3.2	-8152.5	40.5	50903.1
	-5.8	-80.9	-2.4	-7982.1	29.3	50764.1
345.	1.6	-1621.8	1.7	-7173.3	-321.7	-90167.7
	1.9	-1605.6	2.6	-7002.9	-477.4	-87505.9
	4.0	-1656.7	0.0	-7537.5	2.8	-95885.8
	4.4	-1640.4	0.8	-7367.1	-152.9	-93223.9
	2.9	-1648.5	0.4	-7451.7	-75.6	-94544.8
	3.3	-1632.3	1.3	-7281.3	-231.3	-91883.0
	5.3	-1683.4	-1.3	-7815.9	248.9	-100262.9
	5.7	-1667.1	-0.5	-7645.5	93.2	-97601.0
	-10.0	-1652.8	-0.2	-7509.9	25.5	-95248.3
	-9.6	-1636.6	0.7	-7339.5	-130.1	-92586.4
	-7.5	-1687.7	-1.9	-7874.1	350.0	-100966.3
	-7.1	-1671.4	-1.1	-7703.7	194.4	-98304.5
	-8.6	-1679.5	-1.5	-7788.3	271.6	-99625.4
	-8.2	-1663.3	-0.6	-7617.9	115.9	-96963.5
	-6.2	-1714.4	-3.2	-8152.5	596.1	-105343.4
	-5.8	-1698.1	-2.4	-7982.1	440.4	-102681.6
Asta	245	nod1	100	87		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	1.1	1708.0	2.6	14040.7	408.7	-104501.8
	1.1	1724.8	3.8	14517.8	610.7	-107206.7
	1.4	1671.7	-0.2	13020.9	-27.0	-98691.2
	1.5	1688.6	1.1	13497.9	175.1	-101396.1
	1.3	1680.2	0.5	13260.5	75.4	-100053.8
	1.3	1697.1	1.7	13737.6	277.5	-102758.8
	1.6	1644.0	-2.2	12240.7	-360.3	-94243.3
	1.6	1660.9	-1.0	12717.7	-158.2	-96948.2
	-3.1	1675.7	0.0	13099.6	11.3	-99335.1
	-3.1	1692.6	1.3	13576.6	213.4	-102040.0
	-2.8	1639.5	-2.7	12079.7	-424.3	-93524.5
	-2.7	1656.4	-1.4	12556.7	-222.3	-96229.4
	-2.9	1648.0	-2.0	12319.4	-321.9	-94887.1
	-2.9	1664.9	-0.8	12796.4	-119.9	-97592.1
	-2.6	1611.8	-4.8	11299.5	-757.6	-89076.6
	-2.5	1628.7	-3.5	11776.5	-555.6	-91781.5
170.	1.1	114.0	2.6	14040.7	-26.4	50384.1
	1.1	130.9	3.8	14517.8	-39.7	50546.3
	1.4	77.8	-0.2	13020.9	0.8	50035.9
	1.5	94.7	1.1	13497.9	-12.5	50198.1
	1.3	86.3	0.5	13260.5	-5.7	50117.6
	1.3	103.2	1.7	13737.6	-18.9	50279.8
	1.6	50.1	-2.2	12240.7	21.5	49769.4
	1.6	66.9	-1.0	12717.7	8.3	49931.6
	-3.1	81.8	0.0	13099.6	3.0	50073.8
	-3.1	98.7	1.3	13576.6	-10.3	50235.9
	-2.8	45.6	-2.7	12079.7	30.2	49725.6
	-2.7	62.5	-1.4	12556.7	16.9	49887.7
	-2.9	54.1	-2.0	12319.4	23.7	49807.3
	-2.9	71.0	-0.8	12796.4	10.4	49969.4
	-2.6	17.9	-4.8	11299.5	50.9	49459.1
	-2.5	34.7	-3.5	11776.5	37.6	49621.2
340.	1.1	-1479.9	2.6	14040.7	-461.2	-65726.0
	1.1	-1463.0	3.8	14517.8	-689.8	-62696.9
	1.4	-1516.1	-0.2	13020.9	28.7	-72233.0
	1.5	-1499.2	1.1	13497.9	-199.9	-69203.8
	1.3	-1507.6	0.5	13260.5	-86.4	-70707.0
	1.3	-1490.8	1.7	13737.6	-315.0	-67677.8

	1.6	-1543.8	-2.2	12240.7	403.5	-77214.0
	1.6	-1527.0	-1.0	12717.7	174.9	-74184.8
	-3.1	-1512.1	0.0	13099.6	-5.5	-71513.4
	-3.1	-1495.2	1.3	13576.6	-234.1	-68484.2
	-2.8	-1548.3	-2.7	12079.7	484.3	-78020.4
	-2.7	-1531.5	-1.4	12556.7	255.7	-74991.2
	-2.9	-1539.8	-2.0	12319.4	369.2	-76494.4
	-2.9	-1523.0	-0.8	12796.4	140.6	-73465.2
	-2.6	-1576.1	-4.8	11299.5	859.1	-83001.4
	-2.5	-1559.2	-3.5	11776.5	630.5	-79972.2
Asta	246	nod1	120	143		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2.5	1329.8	1.6	-2801.9	157.5	-56863.1
	-2.4	1281.7	2.5	-3539.5	238.5	-51548.5
	-1.9	1433.5	-0.2	-1207.1	-16.1	-68333.0
	-1.8	1385.5	0.7	-1944.7	64.8	-63018.4
	-3.8	1408.2	0.3	-1600.0	23.9	-65536.1
	-3.6	1360.2	1.1	-2337.6	104.9	-60221.6
	-3.2	1512.0	-1.5	-5.2	-149.7	-77006.0
	-3.0	1463.9	-0.7	-742.8	-68.8	-71691.5
	3.6	1425.6	0.1	-1376.0	11.9	-67452.1
	3.8	1377.5	0.9	-2113.6	92.8	-62137.6
	4.2	1529.3	-1.7	218.8	-161.8	-78922.0
	4.4	1481.2	-0.8	-518.8	-80.8	-73607.5
	2.4	1504.0	-1.3	-174.1	-121.7	-76125.2
	2.5	1455.9	-0.4	-911.7	-40.8	-70810.6
	3.0	1607.7	-3.0	1420.6	-295.4	-87595.1
	3.1	1559.7	-2.2	683.0	-214.5	-82280.5
108.	-2.5	151.0	1.6	-2801.9	-17.7	22869.9
	-2.4	103.0	2.5	-3539.5	-26.2	23016.7
	-1.9	254.8	-0.2	-1207.1	0.5	22553.4
	-1.8	206.7	0.7	-1944.7	-8.0	22700.2
	-3.8	229.5	0.3	-1600.0	-4.0	22630.1
	-3.6	181.4	1.1	-2337.6	-12.4	22776.9
	-3.2	333.2	-1.5	-5.2	14.2	22313.7
	-3.0	285.2	-0.7	-742.8	5.8	22460.4
	3.6	246.8	0.1	-1376.0	-0.4	22578.0
	3.8	198.8	0.9	-2113.6	-8.9	22724.8
	4.2	350.6	-1.7	218.8	17.7	22261.5
	4.4	302.5	-0.8	-518.8	9.3	22408.3
	2.4	325.3	-1.3	-174.1	13.3	22338.2
	2.5	277.2	-0.4	-911.7	4.9	22485.0
	3.0	429.0	-3.0	1420.6	31.5	22021.8
	3.1	380.9	-2.2	683.0	23.0	22168.6
215.	-2.5	-1041.9	1.6	-2801.9	-192.9	-24892.2
	-2.4	-1089.9	2.5	-3539.5	-290.7	-29913.2
	-1.9	-938.1	-0.2	-1207.1	17.1	-14055.2
	-1.8	-986.2	0.7	-1944.7	-80.7	-19076.2
	-3.8	-963.4	0.3	-1600.0	-31.8	-16698.7
	-3.6	-1011.5	1.1	-2337.6	-129.6	-21719.7
	-3.2	-859.7	-1.5	-5.2	178.2	-5861.7
	-3.0	-907.8	-0.7	-742.8	80.4	-10882.7
	3.6	-946.1	0.1	-1376.0	-12.8	-14886.9
	3.8	-994.2	0.9	-2113.6	-110.7	-19907.9
	4.2	-842.4	-1.7	218.8	197.2	-4049.9
	4.4	-890.4	-0.8	-518.8	99.3	-9070.9
	2.4	-867.7	-1.3	-174.1	148.3	-6693.4
	2.5	-915.7	-0.4	-911.7	50.4	-11714.4
	3.0	-763.9	-3.0	1420.6	358.3	4143.6
	3.1	-812.0	-2.2	683.0	260.4	-877.4
Asta	247	nod1	121	120		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.5	1749.3	3.2	624.1	526.3	-67809.3
	0.5	1698.0	4.7	1783.2	788.5	-60657.9
	0.4	1859.9	-0.2	-1879.4	-37.6	-83245.8
	0.4	1808.6	1.4	-720.3	224.5	-76094.3
	-0.3	1832.9	0.6	-1266.9	96.6	-79477.6
	-0.3	1781.6	2.2	-107.8	358.7	-72326.2
	-0.4	1943.5	-2.8	-3770.3	-467.4	-94914.1
	-0.4	1892.3	-1.2	-2611.2	-205.2	-87762.7
	-0.6	1851.2	0.1	-1622.3	11.3	-82045.1
	-0.6	1800.0	1.6	-463.2	273.4	-74893.6
	-0.7	1961.9	-3.3	-4125.8	-552.6	-97481.6
	-0.7	1910.6	-1.7	-2966.6	-290.5	-90330.1
	-1.4	1934.9	-2.5	-3513.3	-418.5	-93713.4
	-1.3	1883.6	-0.9	-2354.2	-156.3	-86562.0
	-1.5	2045.5	-5.9	-6016.7	-982.4	-109149.9
	-1.5	1994.2	-4.3	-4857.6	-720.3	-101998.5
132.	0.5	-22.8	3.2	624.1	106.8	49474.7
	0.5	-74.0	4.7	1783.2	160.3	49836.0
	0.4	87.8	-0.2	-1879.4	-8.7	48694.6
	0.4	36.6	1.4	-720.3	44.9	49056.0
	-0.3	60.8	0.6	-1266.9	19.8	48885.4
	-0.3	9.6	2.2	-107.8	73.3	49246.7
	-0.4	171.5	-2.8	-3770.3	-95.7	48105.3
	-0.4	120.2	-1.2	-2611.2	-42.2	48466.7
	-0.6	79.2	0.1	-1622.3	1.9	48749.5
	-0.6	27.9	1.6	-463.2	55.4	49110.8
	-0.7	189.8	-3.3	-4125.8	-113.6	47969.4

	-0.7	138.6	-1.7	-2966.6	-60.1	48330.8
	-1.4	162.8	-2.5	-3513.3	-85.2	48160.2
	-1.3	111.6	-0.9	-2354.2	-31.7	48521.5
	-1.5	273.5	-5.9	-6016.7	-200.6	47380.1
	-1.5	222.2	-4.3	-4857.6	-147.1	47741.5
265.	0.5	-2059.9	3.2	624.1	-312.7	-85553.0
	0.5	-2111.2	4.7	1783.2	-467.9	-91981.8
	0.4	-1949.3	-0.2	-1879.4	20.3	-71676.6
	0.4	-2000.5	1.4	-720.3	-134.8	-78105.3
	-0.3	-1976.3	0.6	-1266.9	-57.1	-75063.3
	-0.3	-2027.5	2.2	-107.8	-212.2	-81492.0
	-0.4	-1865.6	-2.8	-3770.3	276.0	-61186.8
	-0.4	-1916.9	-1.2	-2611.2	120.8	-67615.6
	-0.6	-1957.9	0.1	-1622.3	-7.6	-72767.6
	-0.6	-2009.2	1.6	-463.2	-162.7	-79196.4
	-0.7	-1847.3	-3.3	-4125.8	325.5	-58891.1
	-0.7	-1898.5	-1.7	-2966.6	170.3	-65319.9
	-1.4	-1874.3	-2.5	-3513.3	248.1	-62277.8
	-1.3	-1925.5	-0.9	-2354.2	93.0	-68706.6
	-1.5	-1763.7	-5.9	-6016.7	581.1	-48401.4
	-1.5	-1814.9	-4.3	-4857.6	426.0	-54830.2
Asta	248	nod1	121	142		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3.7	507.0	1.8	-4529.6	439.5	-43677.8
	-3.8	529.4	2.8	-4363.7	657.4	-49236.7
	-5.8	458.7	-0.1	-4886.5	-30.0	-31672.5
	-5.8	481.1	0.8	-4720.6	187.9	-37231.4
	-0.3	470.5	0.4	-4801.6	83.6	-34608.3
	-0.4	492.9	1.3	-4635.6	301.4	-40167.2
	-2.4	422.2	-1.6	-5158.5	-385.9	-22603.1
	-2.4	444.6	-0.7	-4992.6	-168.1	-28162.0
	-0.3	463.5	0.0	-4856.3	6.1	-32856.9
	-0.3	485.8	0.9	-4690.4	223.9	-38415.8
	-2.3	415.2	-1.9	-5213.2	-463.4	-20851.7
	-2.4	437.5	-1.0	-5047.3	-245.6	-26410.6
	3.1	427.0	-1.5	-5128.2	-349.9	-23787.5
	3.1	449.4	-0.6	-4962.3	-132.0	-29346.4
	1.1	378.7	-3.4	-5485.2	-819.4	-11782.3
	1.0	401.1	-2.5	-5319.2	-601.5	-17341.2
250.	-3.7	38.3	1.8	-4529.6	-20.9	24480.1
	-3.8	60.6	2.8	-4363.7	-31.2	24512.1
	-5.8	-10.0	-0.1	-4886.5	1.2	24411.0
	-5.8	12.3	0.8	-4720.6	-9.0	24443.1
	-0.3	1.8	0.4	-4801.6	-4.2	24427.2
	-0.4	24.1	1.3	-4635.6	-14.5	24459.3
	-2.4	-46.5	-1.6	-5158.5	18.0	24358.2
	-2.4	-24.2	-0.7	-4992.6	7.7	24390.2
	-0.3	-5.3	0.0	-4856.3	-0.1	24418.3
	-0.3	17.1	0.9	-4690.4	-10.4	24450.3
	-2.3	-53.6	-1.9	-5213.2	22.1	24349.2
	-2.4	-31.2	-1.0	-5047.3	11.8	24381.2
	3.1	-41.8	-1.5	-5128.2	16.7	24365.4
	3.1	-19.4	-0.6	-4962.3	6.4	24397.4
	1.1	-90.1	-3.4	-5485.2	38.8	24296.3
	1.0	-67.7	-2.5	-5319.2	28.6	24328.4
500.	-3.7	-430.5	1.8	-4529.6	-481.4	-24547.3
	-3.8	-408.1	2.8	-4363.7	-719.8	-18924.3
	-5.8	-478.8	-0.1	-4886.5	32.5	-36690.7
	-5.8	-456.4	0.8	-4720.6	-205.9	-31067.7
	-0.3	-467.0	0.4	-4801.6	-92.0	-33722.5
	-0.4	-444.6	1.3	-4635.6	-330.4	-28099.5
	-2.4	-515.3	-1.6	-5158.5	421.9	-45865.8
	-2.4	-492.9	-0.7	-4992.6	183.5	-40242.9
	-0.3	-474.0	0.0	-4856.3	-6.3	-35491.8
	-0.3	-451.7	0.9	-4690.4	-244.7	-29868.8
	-2.3	-522.3	-1.9	-5213.2	507.6	-47635.2
	-2.4	-499.9	-1.0	-5047.3	269.2	-42012.2
	3.1	-510.5	-1.5	-5128.2	383.2	-44667.0
	3.1	-488.1	-0.6	-4962.3	144.7	-39044.0
	1.1	-558.8	-3.4	-5485.2	897.1	-56810.3
	1.0	-536.4	-2.5	-5319.2	658.6	-51187.4
Asta	249	nod1	142	117		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2.0	2873.9	1.6	841.6	437.0	-202475.2
	-2.0	2862.1	2.4	1193.6	655.2	-199540.2
	-0.4	2899.3	-0.1	82.5	-32.2	-208817.2
	-0.5	2887.5	0.7	434.5	186.0	-205882.2
	-4.2	2893.0	0.3	266.3	78.7	-207256.5
	-4.2	2881.3	1.1	618.3	296.9	-204321.6
	-2.6	2918.4	-1.4	-492.8	-390.6	-213598.6
	-2.6	2906.6	-0.6	-140.9	-172.3	-210663.6
	1.0	2897.5	0.0	156.6	10.9	-208377.5
	1.0	2885.7	0.8	508.6	229.1	-205442.5
	2.5	2922.9	-1.7	-602.5	-458.3	-214719.5
	2.5	2911.1	-0.9	-250.5	-240.1	-211784.6
	-1.2	2916.6	-1.3	-418.7	-347.4	-213158.9
	-1.2	2904.9	-0.5	-66.7	-129.2	-210223.9
	0.3	2942.0	-3.0	-1177.8	-816.6	-219500.9
	0.3	2930.3	-2.2	-825.8	-598.4	-216565.9

248.	-2.0	-120.1	1.6	841.6	43.9	122004.9
	-2.0	-131.8	2.4	1193.6	65.6	122026.3
	-0.4	-94.7	-0.1	82.5	-3.2	121958.8
	-0.5	-106.4	0.7	434.5	18.5	121980.1
	-4.2	-100.9	0.3	266.3	9.0	121970.6
	-4.2	-112.7	1.1	618.3	30.7	121991.9
	-2.6	-75.5	-1.4	-492.8	-38.0	121924.5
	-2.6	-87.3	-0.6	-140.9	-16.3	121945.8
	1.0	-96.5	0.0	156.6	0.3	121957.4
	1.0	-108.2	0.8	508.6	21.9	121978.8
	2.5	-71.1	-1.7	-602.5	-46.8	121911.3
	2.5	-82.8	-0.9	-250.5	-25.1	121932.6
	-1.2	-77.3	-1.3	-418.7	-34.6	121923.1
	-1.2	-89.1	-0.5	-66.7	-12.9	121944.5
	0.3	-51.9	-3.0	-1177.8	-81.6	121877.0
	0.3	-63.7	-2.2	-825.8	-59.9	121898.3
496.	-2.0	-2291.0	1.6	841.6	-349.3	-193990.8
	-2.0	-2302.7	2.4	1193.6	-524.2	-196883.1
	-0.4	-2265.6	-0.1	82.5	25.9	-187741.0
	-0.5	-2277.3	0.7	434.5	-149.0	-190633.3
	-4.2	-2271.8	0.3	266.3	-60.7	-189278.1
	-4.2	-2283.6	1.1	618.3	-235.5	-192170.4
	-2.6	-2246.4	-1.4	-492.8	314.5	-183028.3
	-2.6	-2258.2	-0.6	-140.9	139.7	-185920.6
	1.0	-2267.4	0.0	156.6	-10.3	-188183.0
	1.0	-2279.1	0.8	508.6	-185.2	-191075.3
	2.5	-2242.0	-1.7	-602.5	364.9	-181933.3
	2.5	-2253.7	-0.9	-250.5	190.0	-184825.6
	-1.2	-2248.2	-1.3	-418.7	278.3	-183470.3
	-1.2	-2260.0	-0.5	-66.7	103.5	-186362.6
	0.3	-2222.8	-3.0	-1177.8	653.5	-177220.6
	0.3	-2234.6	-2.2	-825.8	478.6	-180112.9
Asta	250	nod1	117	116		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-6.6	607.6	1.5	10239.4	299.8	-65744.8
	-6.4	611.4	2.3	10966.2	453.2	-66275.4
	-9.1	599.4	-0.2	8669.0	-33.6	-64595.0
	-8.9	603.2	0.6	9395.8	119.8	-65125.6
	-3.8	601.4	0.3	9054.5	55.8	-64878.2
	-3.6	605.2	1.1	9781.3	209.2	-65408.7
	-6.3	593.2	-1.4	7484.1	-277.5	-63728.4
	-6.1	597.0	-0.6	8210.9	-124.2	-64259.0
	3.0	601.2	0.0	8808.6	5.4	-64873.6
	3.2	605.0	0.8	9535.4	158.8	-65404.2
	0.5	593.0	-1.6	7238.1	-327.9	-63723.8
	0.7	596.8	-0.9	7965.0	-174.6	-64254.4
	5.8	595.0	-1.2	7623.7	-238.6	-64006.9
	5.9	598.8	-0.4	8350.5	-85.2	-64537.5
	3.3	586.8	-2.9	6053.3	-571.9	-62857.1
	3.5	590.6	-2.1	6780.1	-418.5	-63387.7
187.	-6.6	153.4	1.5	10239.4	19.2	4520.2
	-6.4	157.2	2.3	10966.2	29.8	4698.9
	-9.1	145.2	-0.2	8669.0	-3.0	4134.2
	-8.9	149.0	0.6	9395.8	7.5	4312.9
	-3.8	147.2	0.3	9054.5	0.8	4228.1
	-3.6	151.0	1.1	9781.3	11.4	4406.8
	-6.3	139.0	-1.4	7484.1	-21.4	3842.0
	-6.1	142.8	-0.6	8210.9	-10.8	4020.7
	3.0	147.0	0.0	8808.6	2.8	4182.2
	3.2	150.7	0.8	9535.4	13.4	4360.9
	0.5	138.8	-1.6	7238.1	-19.4	3796.2
	0.7	142.6	-0.9	7965.0	-8.8	3974.9
	5.8	140.8	-1.2	7623.7	-15.5	3890.0
	5.9	144.6	-0.4	8350.5	-5.0	4068.7
	3.3	132.6	-2.9	6053.3	-37.7	3504.0
	3.5	136.4	-2.1	6780.1	-27.2	3682.7
375.	-6.6	-232.3	1.5	10239.4	-262.8	-3949.8
	-6.4	-228.6	2.3	10966.2	-395.0	-3061.8
	-9.1	-240.5	-0.2	8669.0	26.2	-5871.7
	-8.9	-236.8	0.6	9395.8	-106.1	-4983.7
	-3.8	-238.5	0.3	9054.5	-55.5	-5400.8
	-3.6	-234.7	1.1	9781.3	-187.8	-4512.8
	-6.3	-246.7	-1.4	7484.1	233.5	-7322.7
	-6.1	-242.9	-0.6	8210.9	101.2	-6434.7
	3.0	-238.8	0.0	8808.6	1.6	-5493.2
	3.2	-235.0	0.8	9535.4	-130.7	-4605.2
	0.5	-247.0	-1.6	7238.1	290.5	-7415.1
	0.7	-243.2	-0.9	7965.0	158.3	-6527.1
	5.8	-245.0	-1.2	7623.7	208.8	-6944.2
	5.9	-241.2	-0.4	8350.5	76.6	-6056.2
	3.3	-253.2	-2.9	6053.3	497.8	-8866.1
	3.5	-249.4	-2.1	6780.1	365.5	-7978.1
Asta	251	nod1	116	115		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	5.9	2673.3	2.4	6216.0	318.7	-189358.7
	5.8	2650.9	3.6	6501.4	481.8	-186668.4
	2.9	2721.8	-0.3	5601.4	-31.7	-195178.9
	2.8	2699.4	1.0	5886.8	131.4	-192488.7
	9.0	2709.8	0.4	5748.4	49.4	-193741.1

	9.0	2687.4	1.6	6033.9	212.6	-191050.8
	6.0	2758.4	-2.3	5133.8	-301.0	-199561.4
	5.9	2736.0	-1.1	5419.2	-137.9	-196871.1
	-10.0	2717.4	0.2	5658.5	20.2	-194655.0
	-10.0	2695.0	1.4	5943.9	183.4	-191964.7
	-13.0	2766.0	-2.5	5043.9	-330.2	-200475.3
	-13.1	2743.5	-1.3	5329.3	-167.1	-197785.0
	-6.9	2754.0	-1.9	5190.9	-249.1	-199037.5
	-6.9	2731.6	-0.7	5476.3	-85.9	-196347.2
	-9.9	2802.5	-4.5	4576.3	-599.5	-204857.7
	-10.0	2780.1	-3.3	4861.7	-436.4	-202167.4
138.	5.9	468.3	2.4	6216.0	-11.5	32753.8
	5.8	445.8	3.6	6501.4	-18.2	32358.1
	2.9	516.8	-0.3	5601.4	2.5	33610.0
	2.8	494.4	1.0	5886.8	-4.2	33214.3
	9.0	504.8	0.4	5748.4	0.4	33398.3
	9.0	482.4	1.6	6033.9	-6.4	33002.6
	6.0	553.4	-2.3	5133.8	14.3	34254.5
	5.9	530.9	-1.1	5419.2	7.6	33858.8
	-10.0	512.4	0.2	5658.5	-0.9	33528.7
	-10.0	490.0	1.4	5943.9	-7.7	33133.0
	-13.0	561.0	-2.5	5043.9	13.0	34384.9
	-13.1	538.5	-1.3	5329.3	6.3	33989.2
	-6.9	549.0	-1.9	5190.9	10.9	34173.2
	-6.9	526.5	-0.7	5476.3	4.2	33777.5
	-9.9	597.5	-4.5	4576.3	24.9	35029.4
	-10.0	575.1	-3.3	4861.7	18.1	34633.7
275.	5.9	-2268.5	2.4	6216.0	-341.0	-84940.0
	5.8	-2291.0	3.6	6501.4	-517.7	-88421.8
	2.9	-2220.0	-0.3	5601.4	37.3	-77407.4
	2.8	-2242.4	1.0	5886.8	-139.4	-80889.1
	9.0	-2232.0	0.4	5748.4	-48.1	-79268.6
	9.0	-2254.4	1.6	6033.9	-224.7	-82750.4
	6.0	-2183.4	-2.3	5133.8	330.2	-71736.0
	5.9	-2205.9	-1.1	5419.2	153.6	-75217.7
	-10.0	-2224.4	0.2	5658.5	-22.7	-78094.0
	-10.0	-2246.8	1.4	5943.9	-199.3	-81575.7
	-13.0	-2175.8	-2.5	5043.9	355.7	-70561.3
	-13.1	-2198.3	-1.3	5329.3	179.0	-74043.1
	-6.9	-2187.8	-1.9	5190.9	270.3	-72422.5
	-6.9	-2210.3	-0.7	5476.3	93.7	-75904.3
	-9.9	-2139.3	-4.5	4576.3	648.6	-64889.9
	-10.0	-2161.7	-3.3	4861.7	472.0	-68371.6
Asta	252	nod	115	174		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	3.9	3893.1	2.8	19300.9	393.1	-137747.2
	3.8	3861.0	4.1	19541.1	574.4	-133417.9
	3.3	3962.6	0.0	18783.8	3.2	-147113.7
	3.2	3930.5	1.3	19024.1	184.6	-142784.4
	4.4	3945.4	0.7	18907.3	94.3	-144798.8
	4.4	3913.3	2.0	19147.6	275.7	-140469.6
	3.8	4014.9	-2.1	18390.3	-295.5	-154165.3
	3.7	3982.8	-0.8	18630.5	-114.2	-149836.0
	-4.6	3956.2	-0.1	18819.0	-19.0	-146249.2
	-4.7	3924.1	1.2	19059.2	162.4	-141920.0
	-5.3	4025.7	-2.9	18302.0	-408.8	-155615.7
	-5.3	3993.6	-1.6	18542.2	-227.5	-151286.4
	-4.1	4008.5	-2.3	18425.5	-317.7	-153300.9
	-4.2	3976.4	-0.9	18665.7	-136.4	-148971.6
	-4.7	4078.0	-5.1	17908.4	-707.6	-162667.3
	-4.8	4045.9	-3.8	18148.7	-526.2	-158338.0
135.	3.9	-470.1	2.8	19300.9	13.9	68628.5
	3.8	-502.3	4.1	19541.1	19.0	68621.4
	3.3	-400.6	0.0	18783.8	3.1	68643.5
	3.2	-432.8	1.3	19024.1	8.2	68636.5
	4.4	-417.8	0.7	18907.3	5.0	68640.0
	4.4	-449.9	2.0	19147.6	10.1	68633.0
	3.8	-348.3	-2.1	18390.3	-5.8	68655.1
	3.7	-380.4	-0.8	18630.5	-0.7	68648.0
	-4.6	-407.0	-0.1	18819.0	-4.8	68644.4
	-4.7	-439.2	1.2	19059.2	0.3	68637.4
	-5.3	-337.5	-2.9	18302.0	-15.6	68659.5
	-5.3	-369.7	-1.6	18542.2	-10.5	68652.4
	-4.1	-354.7	-2.3	18425.5	-13.7	68656.0
	-4.2	-386.8	-0.9	18665.7	-8.6	68648.9
	-4.7	-285.2	-5.1	17908.4	-24.5	68671.0
	-4.8	-317.3	-3.8	18148.7	-19.4	68664.0
270.	3.9	-2640.0	2.8	19300.9	-365.9	-165979.8
	3.8	-2672.1	4.1	19541.1	-537.0	-170323.2
	3.3	-2570.5	0.0	18783.8	2.4	-156583.3
	3.2	-2602.6	1.3	19024.1	-168.7	-160926.6
	4.4	-2587.7	0.7	18907.3	-85.0	-158905.1
	4.4	-2619.8	2.0	19147.6	-256.1	-163248.4
	3.8	-2518.2	-2.1	18390.3	283.3	-149508.5
	3.7	-2550.3	-0.8	18630.5	112.2	-153851.9
	-4.6	-2576.9	-0.1	18819.0	9.8	-157446.1
	-4.7	-2609.0	1.2	19059.2	-161.2	-161789.4
	-5.3	-2507.4	-2.9	18302.0	378.1	-148049.5
	-5.3	-2539.5	-1.6	18542.2	207.0	-152392.9
	-4.1	-2524.6	-2.3	18425.5	290.8	-150371.4

	-4.2	-2556.7	-0.9	18665.7	119.7	-154714.7
	-4.7	-2455.1	-5.1	17908.4	659.1	-140974.8
	-4.8	-2487.2	-3.8	18148.7	488.0	-145318.1
Asta	253	nod1	174	112		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	3.0	3307.0	1.6	-27024.7	249.0	-147155.8
	2.8	3288.5	2.3	-27135.0	375.9	-143965.2
	3.7	3347.0	-0.1	-26787.5	-25.0	-154060.0
	3.5	3328.5	0.6	-26897.7	102.0	-150869.4
	3.2	3337.1	0.3	-26844.7	42.3	-152351.7
	3.1	3318.6	1.1	-26954.9	169.2	-149161.2
	4.0	3377.1	-1.4	-26607.4	-231.7	-159255.9
	3.8	3358.6	-0.6	-26717.6	-104.8	-156065.4
	-6.6	3343.2	0.0	-26782.5	4.4	-153415.3
	-6.8	3324.7	0.8	-26892.8	131.3	-150224.7
	-5.8	3383.2	-1.7	-26545.3	-269.6	-160319.5
	-6.0	3364.7	-0.9	-26655.5	-142.7	-157128.9
	-6.3	3373.3	-1.3	-26602.5	-202.4	-158611.2
	-6.5	3354.8	-0.5	-26712.7	-75.4	-155420.7
	-5.6	3413.3	-3.0	-26365.2	-476.4	-165515.4
	-5.8	3394.8	-2.2	-26475.5	-349.4	-162324.9
145.	3.0	90.6	1.6	-27024.7	23.3	106864.1
	2.8	72.1	2.3	-27135.0	36.0	107371.9
	3.7	130.6	-0.1	-26787.5	-3.7	105766.9
	3.5	112.2	0.6	-26897.7	9.0	106274.8
	3.2	120.7	0.3	-26844.7	2.3	106035.8
	3.1	102.2	1.1	-26954.9	15.0	106543.6
	4.0	160.7	-1.4	-26607.4	-24.7	104938.7
	3.8	142.2	-0.6	-26717.6	-12.0	105446.5
	-6.6	126.8	0.0	-26782.5	2.7	105853.5
	-6.8	108.3	0.8	-26892.8	15.4	106361.3
	-5.8	166.8	-1.7	-26545.3	-24.3	104756.3
	-6.0	148.3	-0.9	-26655.5	-11.6	105264.2
	-6.3	156.9	-1.3	-26602.5	-18.4	105025.2
	-6.5	138.4	-0.5	-26712.7	-5.7	105533.0
	-5.6	196.9	-3.0	-26365.2	-45.3	103928.1
	-5.8	178.4	-2.2	-26475.5	-32.6	104435.9
290.	3.0	-3743.3	1.6	-27024.7	-202.9	-150726.1
	2.8	-3761.8	2.3	-27135.0	-304.4	-152901.0
	3.7	-3703.3	-0.1	-26787.5	17.2	-146016.1
	3.5	-3721.8	0.6	-26897.7	-84.4	-148191.0
	3.2	-3713.2	0.3	-26844.7	-38.3	-147186.7
	3.1	-3731.7	1.1	-26954.9	-139.8	-149361.6
	4.0	-3673.2	-1.4	-26607.4	181.8	-142476.7
	3.8	-3691.7	-0.6	-26717.6	80.3	-144651.6
	-6.6	-3707.1	0.0	-26782.5	1.5	-146487.6
	-6.8	-3725.6	0.8	-26892.8	-100.0	-148662.5
	-5.8	-3667.1	-1.7	-26545.3	221.6	-141777.7
	-6.0	-3685.6	-0.9	-26655.5	120.1	-143952.5
	-6.3	-3677.0	-1.3	-26602.5	166.1	-142948.2
	-6.5	-3695.5	-0.5	-26712.7	64.6	-145123.1
	-5.6	-3637.0	-3.0	-26365.2	386.2	-138238.2
	-5.8	-3655.5	-2.2	-26475.5	284.7	-140413.1
Asta	254	nod1	112	111		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.2	231.5	1.6	8651.2	191.8	-26313.0
	0.0	209.8	2.4	9356.1	282.0	-24369.1
	0.5	278.6	0.0	7128.0	0.4	-30519.2
	0.4	256.8	0.8	7833.0	90.7	-28575.3
	0.5	267.0	0.3	7501.5	38.4	-29478.9
	0.3	245.3	1.1	8206.4	128.7	-27535.0
	0.9	314.0	-1.3	5978.4	-152.9	-33685.1
	0.7	292.3	-0.5	6683.3	-62.6	-31741.2
	-2.1	274.4	0.0	7261.4	-3.4	-30112.7
	-2.3	252.7	0.7	7966.3	86.9	-28168.9
	-1.7	321.5	-1.7	5738.2	-194.7	-34318.9
	-1.9	299.7	-0.9	6443.2	-104.4	-32375.0
	-1.8	309.9	-1.3	6111.7	-156.7	-33278.6
	-1.9	288.2	-0.6	6816.7	-66.4	-31334.8
	-1.4	356.9	-3.0	4588.6	-348.0	-37484.8
	-1.6	335.2	-2.2	5293.5	-257.8	-35541.0
110.	0.2	25.1	1.6	8651.2	11.5	-12184.2
	0.0	3.4	2.4	9356.1	16.9	-12635.6
	0.5	72.1	0.0	7128.0	-0.7	-11213.7
	0.4	50.4	0.8	7833.0	4.7	-11665.1
	0.5	60.6	0.3	7501.5	3.9	-11444.6
	0.3	38.8	1.1	8206.4	9.3	-11896.0
	0.9	107.6	-1.3	5978.4	-8.4	-10474.1
	0.7	85.8	-0.5	6683.3	-3.0	-10925.5
	-2.1	68.0	0.0	7261.4	-0.9	-11260.3
	-2.3	46.3	0.7	7966.3	4.5	-11711.6
	-1.7	115.0	-1.7	5738.2	-13.1	-10289.7
	-1.9	93.3	-0.9	6443.2	-7.7	-10741.1
	-1.8	103.5	-1.3	6111.7	-8.5	-10520.7
	-1.9	81.7	-0.6	6816.7	-3.1	-10972.1
	-1.4	150.5	-3.0	4588.6	-20.8	-9550.2
	-1.6	128.7	-2.2	5293.5	-15.4	-10001.5
220.	0.2	-181.3	1.6	8651.2	-168.9	-20784.0
	0.0	-203.1	2.4	9356.1	-248.4	-23630.7

	0.5	-134.3	0.0	7128.0	-1.9	-14636.9
	0.4	-156.1	0.8	7833.0	-81.4	-17483.5
	0.5	-145.9	0.3	7501.5	-30.9	-16138.9
	0.3	-167.6	1.1	8206.4	-110.4	-18985.6
	0.9	-98.8	-1.3	5978.4	136.1	-9991.8
	0.7	-120.6	-0.5	6683.3	56.6	-12838.4
	-2.1	-138.4	0.0	7261.4	1.7	-15137.0
	-2.3	-160.2	0.7	7966.3	-77.8	-17983.7
	-1.7	-91.4	-1.7	5738.2	168.7	-8989.9
	-1.9	-113.2	-0.9	6443.2	89.2	-11836.5
	-1.8	-103.0	-1.3	6111.7	139.7	-10491.9
	-1.9	-124.7	-0.6	6816.7	60.2	-13338.6
	-1.4	-55.9	-3.0	4588.6	306.7	-4344.8
	-1.6	-77.7	-2.2	5293.5	227.2	-7191.4
Asta	255	nodj	179	140		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3.2	553.6	1.2	33308.1	20.6	52682.2
	-4.5	462.2	1.7	29181.4	29.2	60534.0
	-0.1	750.7	0.0	42225.0	2.5	35742.3
	-1.4	659.3	0.5	38098.3	11.1	43594.1
	-3.6	702.7	0.2	40034.1	4.5	39863.4
	-4.9	611.3	0.8	35907.4	13.1	47715.2
	-0.5	899.8	-1.0	48951.1	-13.6	22923.5
	-1.8	808.4	-0.4	44824.3	-5.1	30775.3
	-4.6	734.0	0.1	41358.9	6.3	37105.2
	-5.9	642.7	0.6	37232.2	14.8	44957.0
	-1.5	931.1	-1.1	50275.8	-11.8	20165.3
	-2.8	839.8	-0.6	46149.1	-3.3	28017.1
	-5.0	883.1	-0.9	48084.9	-9.8	24286.4
	-6.3	791.8	-0.3	43958.2	-1.3	32138.1
	-1.9	1080.2	-2.1	57001.8	-27.9	7346.5
	-3.2	988.9	-1.5	52875.1	-19.4	15198.2
115.	-3.2	-2202.2	1.2	33308.1	-114.0	-42634.9
	-4.5	-2293.5	1.7	29181.4	-169.6	-45284.6
	-0.1	-2005.1	0.0	42225.0	5.6	-36915.9
	-1.4	-2096.4	0.5	38098.3	-50.0	-39565.6
	-3.6	-2053.1	0.2	40034.1	-22.3	-38309.9
	-4.9	-2144.4	0.8	35907.4	-77.9	-40959.6
	-0.5	-1856.0	-1.0	48951.1	97.3	-32590.9
	-1.8	-1947.3	-0.4	44824.3	41.7	-35240.6
	-4.6	-2021.7	0.1	41358.9	0.6	-37464.8
	-5.9	-2113.1	0.6	37232.2	-55.0	-40114.5
	-1.5	-1824.7	-1.1	50275.8	120.2	-31745.9
	-2.8	-1916.0	-0.6	46149.1	64.6	-34395.5
	-5.0	-1872.6	-0.9	48084.9	92.3	-33139.8
	-6.3	-1964.0	-0.3	43958.2	36.7	-35789.5
	-1.9	-1675.5	-2.1	57001.8	211.9	-27420.8
	-3.2	-1766.9	-1.5	52875.1	156.3	-30070.5
230.	-3.2	-4901.3	1.2	33308.1	-248.0	-451540.1
	-4.5	-4992.6	1.7	29181.4	-367.8	-464691.2
	-0.1	-4704.2	0.0	42225.0	9.4	-423162.2
	-1.4	-4795.6	0.5	38098.3	-110.4	-436313.3
	-3.6	-4752.2	0.2	40034.1	-48.5	-430071.3
	-4.9	-4843.5	0.8	35907.4	-168.2	-443222.4
	-0.5	-4555.1	-1.0	48951.1	208.9	-401693.4
	-1.8	-4646.4	-0.4	44824.3	89.1	-414844.5
	-4.6	-4720.9	0.1	41358.9	-5.7	-425623.6
	-5.9	-4812.2	0.6	37232.2	-125.5	-438774.7
	-1.5	-4523.8	-1.1	50275.8	251.7	-397245.7
	-2.8	-4615.1	-0.6	46149.1	131.9	-410396.8
	-5.0	-4571.7	-0.9	48084.9	193.8	-404154.7
	-6.3	-4663.1	-0.3	43958.2	74.0	-417305.8
	-1.9	-4374.7	-2.1	57001.8	451.2	-375776.8
	-3.2	-4466.0	-1.5	52875.1	331.4	-388927.9
Asta	256	nodj	137	179		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3.9	3506.5	0.7	-51925.9	175.8	-422258.6
	-3.4	3415.2	1.0	-59867.8	264.4	-405659.6
	-5.1	3703.6	-0.1	-34791.2	-14.9	-458061.3
	-4.6	3612.3	0.3	-42733.1	73.7	-441462.4
	-2.7	3655.6	0.1	-38960.2	31.5	-449367.7
	-2.2	3564.3	0.5	-46902.0	120.1	-432768.7
	-3.9	3852.7	-0.6	-21825.5	-159.2	-485170.4
	-3.4	3761.4	-0.3	-29767.4	-70.6	-468571.5
	-0.6	3687.0	0.0	-36173.1	-2.6	-455155.5
	-0.1	3595.6	0.3	-44115.0	86.1	-438556.5
	-1.8	3884.0	-0.8	-19038.4	-193.3	-490958.2
	-1.3	3792.7	-0.5	-26980.3	-104.7	-474359.3
	0.6	3836.1	-0.6	-23207.4	-146.9	-482264.6
	1.1	3744.7	-0.3	-31149.2	-58.3	-465665.7
	-0.6	4033.2	-1.4	-6072.7	-337.6	-518067.3
	-0.1	3941.8	-1.0	-14014.6	-249.0	-501468.4
112.	-3.9	2030.0	0.7	-51925.9	97.9	-110844.6
	-3.4	1938.7	1.0	-59867.8	146.5	-104520.4
	-5.1	2227.1	-0.1	-34791.2	-6.5	-124477.6
	-4.6	2135.8	0.3	-42733.1	42.1	-118153.4
	-2.7	2179.2	0.1	-38960.2	17.7	-121180.0
	-2.2	2087.8	0.5	-46902.0	66.3	-114855.8
	-3.9	2376.2	-0.6	-21825.5	-86.7	-134813.0

	-3.4	2284.9	-0.3	-29767.4	-38.1	-128488.8
	-0.6	2210.5	0.0	-36173.1	2.1	-123442.8
	-0.1	2119.2	0.3	-44115.0	50.7	-117118.6
	-1.8	2407.6	-0.8	-19038.4	-102.3	-137075.8
	-1.3	2316.2	-0.5	-26980.3	-53.7	-130751.6
	0.6	2359.6	-0.6	-23207.4	-78.1	-133778.2
	1.1	2268.3	-0.3	-31149.2	-29.5	-127454.0
	-0.6	2556.7	-1.4	-6072.7	-182.5	-147411.3
	-0.1	2465.3	-1.0	-14014.6	-133.9	-141087.0
225.	-3.9	553.6	0.7	-51925.9	20.6	34475.4
	-3.4	462.2	1.0	-59867.8	29.2	30524.9
	-5.1	750.7	-0.1	-34791.2	2.5	43012.1
	-4.6	659.3	0.3	-42733.1	11.1	39061.6
	-2.7	702.7	0.1	-38960.2	4.5	40913.7
	-2.2	611.3	0.5	-46902.0	13.1	36963.2
	-3.9	899.8	-0.6	-21825.5	-13.6	49450.4
	-3.4	808.4	-0.3	-29767.4	-5.1	45499.9
	-0.6	734.0	0.0	-36173.1	6.3	42176.6
	-0.1	642.7	0.3	-44115.0	14.8	38226.1
	-1.8	931.1	-0.8	-19038.4	-11.8	50713.3
	-1.3	839.8	-0.5	-26980.3	-3.3	46762.8
	0.6	883.1	-0.6	-23207.4	-9.8	48614.9
	1.1	791.8	-0.3	-31149.2	-1.3	44664.4
	-0.6	1080.2	-1.4	-6072.7	-27.9	57151.6
	-0.1	988.9	-1.0	-14014.6	-19.4	53201.1
Asta	257	nod	157	137		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-5.4	1718.8	3.1	-21732.9	668.7	-165471.6
	-5.0	1668.4	4.6	-24179.2	1000.4	-150826.8
	-8.0	1827.8	-0.2	-16450.7	-45.4	-197105.0
	-7.6	1777.4	1.3	-18896.9	286.2	-182460.3
	-0.3	1800.9	0.6	-17743.4	125.2	-189354.0
	0.2	1750.5	2.1	-20189.7	456.8	-174709.2
	-2.9	1909.9	-2.7	-12461.2	-589.0	-220987.5
	-2.4	1859.5	-1.2	-14907.5	-257.4	-206342.7
	2.3	1815.4	0.0	-16865.5	11.9	-194035.2
	2.7	1765.0	1.6	-19311.7	343.6	-179390.4
	-0.3	1924.4	-3.3	-11583.2	-702.2	-225668.7
	0.1	1874.0	-1.7	-14029.5	-370.6	-211023.9
	7.4	1897.5	-2.5	-12876.0	-531.7	-217917.6
	7.9	1847.1	-0.9	-15322.3	-200.0	-203272.9
	4.8	2006.5	-5.8	-7593.8	-1245.8	-249551.1
	5.3	1956.1	-4.2	-10040.0	-914.2	-234906.3
180.	-5.4	-647.7	3.1	-21732.9	110.5	-68902.8
	-5.0	-698.1	4.6	-24179.2	165.5	-63344.7
	-8.0	-538.7	-0.2	-16450.7	-7.8	-80880.5
	-7.6	-589.1	1.3	-18896.9	47.2	-75322.5
	-0.3	-565.6	0.6	-17743.4	19.6	-77989.3
	0.2	-616.0	2.1	-20189.7	74.7	-72431.3
	-2.9	-456.6	-2.7	-12461.2	-98.7	-89967.1
	-2.4	-507.0	-1.2	-14907.5	-43.6	-84409.0
	2.3	-551.1	0.0	-16865.5	3.5	-80054.0
	2.7	-601.5	1.6	-19311.7	58.6	-74495.9
	-0.3	-442.1	-3.3	-11583.2	-114.7	-92031.8
	0.1	-492.5	-1.7	-14029.5	-59.7	-86473.7
	7.4	-469.0	-2.5	-12876.0	-87.3	-89140.5
	7.9	-519.4	-0.9	-15322.3	-32.3	-83582.5
	4.8	-360.0	-5.8	-7593.8	-205.6	-101118.3
	5.3	-410.4	-4.2	-10040.0	-150.6	-95560.3
361.	-5.4	-3014.2	3.1	-21732.9	-447.8	-399039.3
	-5.0	-3064.6	4.6	-24179.2	-669.4	-402568.0
	-8.0	-2905.2	-0.2	-16450.7	29.7	-391360.8
	-7.6	-2955.6	1.3	-18896.9	-191.8	-394889.4
	-0.3	-2932.1	0.6	-17743.4	-86.0	-393330.0
	0.2	-2982.5	2.1	-20189.7	-307.5	-396858.7
	-2.9	-2823.1	-2.7	-12461.2	391.6	-385651.4
	-2.4	-2873.5	-1.2	-14907.5	170.1	-389180.1
	2.3	-2917.6	0.0	-16865.5	-4.8	-392755.2
	2.7	-2968.0	1.6	-19311.7	-226.3	-396283.9
	-0.3	-2808.6	-3.3	-11583.2	472.8	-385076.6
	0.1	-2859.0	-1.7	-14029.5	251.3	-388605.3
	7.4	-2835.5	-2.5	-12876.0	357.1	-387045.8
	7.9	-2885.9	-0.9	-15322.3	135.6	-390574.5
	4.8	-2726.5	-5.8	-7593.8	834.7	-379367.2
	5.3	-2776.9	-4.2	-10040.0	613.1	-382895.9
Asta	258	nod	157	120		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4.8	2622.1	3.1	13542.6	669.0	-216490.0
	-4.7	2704.5	4.7	17050.4	1002.7	-224241.1
	-5.9	2444.2	-0.2	5978.7	-49.7	-199727.7
	-5.9	2526.6	1.3	9486.6	284.0	-207478.8
	0.2	2487.9	0.6	7812.3	124.0	-203862.6
	0.3	2570.3	2.1	11320.1	457.7	-211613.8
	-0.9	2310.0	-2.8	248.4	-594.7	-187100.4
	-0.9	2392.4	-1.2	3756.3	-261.0	-194851.5
	0.8	2462.0	0.0	6559.6	11.3	-201636.6
	0.8	2544.4	1.6	10067.4	345.0	-209387.8
	-0.3	2284.1	-3.3	-1004.2	-707.5	-184874.4
	-0.3	2366.4	-1.7	2503.6	-373.7	-192625.5

180.	5.8	2327.8	-2.5	829.3	-533.7	-189009.3
	5.8	2410.2	-0.9	4337.1	-200.0	-196760.5
	4.7	2149.9	-5.8	-6734.6	-1252.4	-172247.0
	4.7	2232.2	-4.3	-3226.7	-918.7	-179998.2
	-4.8	255.6	3.1	13542.6	108.9	42950.7
	-4.7	338.0	4.7	17050.4	163.2	50043.8
	-5.9	77.7	-0.2	5978.7	-8.0	27633.4
	-5.9	160.0	1.3	9486.6	46.2	34726.4
	0.2	121.4	0.6	7812.3	20.5	31380.5
	0.3	203.8	2.1	11320.1	74.7	38473.5
	-0.9	-56.5	-2.8	248.4	-96.5	16063.1
	-0.9	25.8	-1.2	3756.3	-42.2	23156.2
	0.8	95.5	0.0	6559.6	3.1	28933.7
	0.8	177.9	1.6	10067.4	57.4	36026.8
	-0.3	-82.4	-3.3	-1004.2	-113.9	13616.4
	-0.3	-0.1	-1.7	2503.6	-59.6	20709.4
	5.8	-38.7	-2.5	829.3	-85.4	17363.5
	5.8	43.7	-0.9	4337.1	-31.1	24456.5
	4.7	-216.6	-5.8	-6734.6	-202.3	2046.1
	4.7	-134.3	-4.3	-3226.7	-148.1	9139.2
361.	-4.8	-2110.9	3.1	13542.6	-451.1	-124303.6
	-4.7	-2028.5	4.7	17050.4	-676.3	-102366.4
	-5.9	-2288.8	-0.2	5978.7	33.7	-171700.6
	-5.9	-2206.5	1.3	9486.6	-191.5	-149763.4
	0.2	-2245.1	0.6	7812.3	-83.1	-160071.4
	0.3	-2162.7	2.1	11320.1	-308.2	-138134.2
	-0.9	-2423.0	-2.8	248.4	401.7	-207468.4
	-0.9	-2340.7	-1.2	3756.3	176.6	-185531.2
	0.8	-2271.0	0.0	6559.6	-5.1	-167188.0
	0.8	-2188.6	1.6	10067.4	-230.3	-145250.7
	-0.3	-2448.9	-3.3	-1004.2	479.7	-214585.0
	-0.3	-2366.6	-1.7	2503.6	254.5	-192647.7
	5.8	-2405.2	-2.5	829.3	362.9	-202955.7
	5.8	-2322.9	-0.9	4337.1	137.8	-181018.5
	4.7	-2583.1	-5.8	-6734.6	847.7	-250352.7
	4.7	-2500.8	-4.3	-3226.7	622.6	-228415.5
Asta PROGR. 0.	259	nod	120	180		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-10.1	2329.3	0.6	-2221.8	174.2	-184721.2
	-10.1	2303.9	0.8	2277.2	257.6	-178160.8
	-12.7	2384.1	0.0	-11928.2	-7.3	-198888.3
	-12.7	2358.7	0.3	-7429.1	76.1	-192327.9
	-5.1	2370.7	0.2	-9566.1	40.6	-195419.1
	-5.1	2345.3	0.4	-5067.1	124.0	-188858.7
	-7.7	2425.6	-0.4	-19272.4	-140.8	-209586.2
	-7.8	2400.2	-0.1	-14773.4	-57.4	-203025.8
	1.6	2380.9	-0.1	-11223.9	-5.6	-197886.1
	1.6	2355.5	0.2	-6724.9	77.8	-191325.7
	-1.0	2435.7	-0.6	-20930.2	-187.0	-212053.2
	-1.1	2410.3	-0.4	-16431.2	-103.7	-205492.8
	6.5	2422.3	-0.5	-18568.1	-139.1	-208584.1
	6.5	2396.9	-0.2	-14069.1	-55.8	-202023.7
	3.9	2477.2	-1.0	-28274.5	-320.6	-222751.2
	3.9	2451.8	-0.8	-23775.4	-237.2	-216190.8
112.	-10.1	852.8	0.6	-2221.8	111.3	-5739.6
	-10.1	827.4	0.8	2277.2	166.7	-2038.2
	-12.7	907.7	0.0	-11928.2	-7.8	-13736.4
	-12.7	882.2	0.3	-7429.1	47.6	-10035.0
	-5.1	894.3	0.2	-9566.1	20.8	-11773.7
	-5.1	868.8	0.4	-5067.1	76.2	-8072.3
	-7.7	949.1	-0.4	-19272.4	-98.3	-19770.5
	-7.8	923.7	-0.1	-14773.4	-42.9	-16069.1
	1.6	904.4	-0.1	-11223.9	2.5	-13100.6
	1.6	879.0	0.2	-6724.9	57.9	-9399.1
	-1.0	959.3	-0.6	-20930.2	-116.6	-21097.4
	-1.1	933.8	-0.4	-16431.2	-61.2	-17395.9
	6.5	945.9	-0.5	-18568.1	-88.0	-19134.6
	6.5	920.4	-0.2	-14069.1	-32.6	-15433.2
	3.9	1000.7	-1.0	-28274.5	-207.1	-27131.4
	3.9	975.3	-0.8	-23775.4	-151.7	-23430.0
225.	-10.1	-623.7	0.6	-2221.8	50.7	7149.8
	-10.1	-649.1	0.8	2277.2	78.1	7992.4
	-12.7	-568.8	0.0	-11928.2	-6.2	5323.2
	-12.7	-594.2	0.3	-7429.1	21.1	6165.8
	-5.1	-582.2	0.2	-9566.1	3.3	5779.6
	-5.1	-607.6	0.4	-5067.1	30.6	6622.1
	-7.7	-527.4	-0.4	-19272.4	-53.7	3953.0
	-7.8	-552.8	-0.1	-14773.4	-26.3	4795.6
	1.6	-572.1	-0.1	-11223.9	8.6	5589.9
	1.6	-597.5	0.2	-6724.9	36.0	6432.4
	-1.0	-517.2	-0.6	-20930.2	-48.3	3763.3
	-1.1	-542.6	-0.4	-16431.2	-21.0	4605.9
	6.5	-530.6	-0.5	-18568.1	-38.8	4219.7
	6.5	-556.0	-0.2	-14069.1	-11.5	5062.2
	3.9	-475.8	-1.0	-28274.5	-95.8	2393.1
	3.9	-501.2	-0.8	-23775.4	-68.4	3235.7
Asta PROGR. 0.	260	nod	180	118		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	9.4	-623.7	1.9	-7197.8	50.7	-2061.8

	9.2	-649.1	2.8	-7939.8	78.1	2454.9
	11.7	-568.8	-0.2	-5588.3	-6.2	-11806.5
	11.4	-594.2	0.8	-6330.3	21.1	-7289.7
	5.5	-582.2	0.3	-5991.8	3.3	-9434.8
	5.2	-607.6	1.3	-6733.8	30.6	-4918.1
	7.8	-527.4	-1.7	-4382.3	-53.7	-19179.4
	7.5	-552.8	-0.8	-5124.3	-26.3	-14662.7
	-5.0	-572.1	0.1	-5838.7	8.6	-11096.3
	-5.3	-597.5	1.0	-6580.7	36.0	-6579.6
	-2.7	-517.2	-2.0	-4229.2	-48.3	-20841.0
	-3.0	-542.6	-1.0	-4971.2	-21.0	-16324.3
	-8.9	-530.6	-1.5	-4632.7	-38.8	-18469.3
	-9.2	-556.0	-0.5	-5374.7	-11.5	-13952.6
	-6.7	-475.8	-3.5	-3023.2	-95.8	-28214.0
	-6.9	-501.2	-2.6	-3765.2	-68.4	-23697.3
115.	9.4	-3379.4	1.9	-7197.8	-167.2	-232732.9
	9.2	-3404.8	2.8	-7939.8	-249.5	-231138.2
	11.7	-3324.6	-0.2	-5588.3	10.1	-236171.1
	11.4	-3350.0	0.8	-6330.3	-72.3	-234576.4
	5.5	-3338.0	0.3	-5991.8	-32.6	-235339.1
	5.2	-3363.4	1.3	-6733.8	-114.9	-233744.4
	7.8	-3283.1	-1.7	-4382.3	144.7	-238777.3
	7.5	-3308.5	-0.8	-5124.3	62.4	-237182.6
	-5.0	-3327.8	0.1	-5838.7	0.6	-235836.2
	-5.3	-3353.2	1.0	-6580.7	-81.7	-234241.5
	-2.7	-3273.0	-2.0	-4229.2	177.9	-239274.4
	-3.0	-3298.4	-1.0	-4971.2	95.6	-237679.7
	-8.9	-3286.4	-1.5	-4632.7	135.3	-238442.4
	-9.2	-3311.8	-0.5	-5374.7	53.0	-236847.7
	-6.7	-3231.5	-3.5	-3023.2	312.6	-241880.6
	-6.9	-3256.9	-2.6	-3765.2	230.3	-240285.9
230.	9.4	-6078.5	1.9	-7197.8	-383.3	-776995.1
	9.2	-6104.0	2.8	-7939.8	-575.3	-778322.4
	11.7	-6023.7	-0.2	-5588.3	28.1	-774126.8
	11.4	-6049.1	0.8	-6330.3	-163.9	-775454.2
	5.5	-6037.1	0.3	-5991.8	-66.5	-774834.5
	5.2	-6062.5	1.3	-6733.8	-258.5	-776161.8
	7.8	-5982.2	-1.7	-4382.3	344.9	-771966.2
	7.5	-6007.6	-0.8	-5124.3	152.9	-773293.6
	-5.0	-6026.9	0.1	-5838.7	-9.1	-774161.7
	-5.3	-6052.4	1.0	-6580.7	-201.1	-775489.0
	-2.7	-5972.1	-2.0	-4229.2	402.3	-771293.5
	-3.0	-5997.5	-1.0	-4971.2	210.3	-772620.8
	-8.9	-5985.5	-1.5	-4632.7	307.7	-772001.1
	-9.2	-6010.9	-0.5	-5374.7	115.7	-773328.4
	-6.7	-5930.6	-3.5	-3023.2	719.1	-769132.9
	-6.9	-5956.1	-2.6	-3765.2	527.1	-770460.2
Asta	261	nod1	118	112		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	3.2	8040.9	0.4	1785.6	181.9	-890702.8
	2.8	8001.9	0.6	2758.5	276.6	-872825.6
	7.8	8125.2	-0.1	-309.4	-23.9	-929295.2
	7.4	8086.2	0.2	663.4	70.7	-911418.0
	-2.3	8104.7	0.1	194.5	30.2	-919872.4
	-2.7	8065.6	0.3	1167.3	124.8	-901995.2
	2.2	8189.0	-0.4	-1900.5	-175.7	-958464.7
	1.8	8149.9	-0.2	-927.7	-81.1	-940587.6
	-7.0	8119.1	0.0	-160.5	9.9	-926341.0
	-7.4	8080.1	0.2	812.3	104.5	-908463.8
	-2.4	8203.4	-0.5	-2255.5	-196.0	-964933.4
	-2.8	8164.3	-0.2	-1282.7	-101.4	-947056.2
	-12.6	8182.9	-0.3	-1751.6	-141.8	-955510.6
	-13.0	8143.8	-0.1	-778.8	-47.2	-937633.4
	-8.0	8267.1	-0.8	-3846.7	-347.7	-994102.9
	-8.4	8228.1	-0.6	-2873.8	-253.1	-976225.8
417.	3.2	-63.5	0.4	1785.6	6.2	709554.7
	2.8	-102.6	0.6	2758.5	9.0	711160.5
	7.8	20.7	-0.1	-309.4	0.6	706073.4
	7.4	-18.3	0.2	663.4	3.3	707679.2
	-2.3	0.2	0.1	194.5	0.7	706947.6
	-2.7	-38.8	0.3	1167.3	3.5	708553.3
	2.2	84.5	-0.4	-1900.5	-4.9	703466.3
	1.8	45.4	-0.2	-927.7	-2.2	705072.1
	-7.0	14.6	0.0	-160.5	-0.1	706483.4
	-7.4	-24.4	0.2	812.3	2.6	708089.1
	-2.4	98.9	-0.5	-2255.5	-5.8	703002.1
	-2.8	59.9	-0.2	-1282.7	-3.0	704607.9
	-12.6	78.4	-0.3	-1751.6	-5.6	703876.3
	-13.0	39.3	-0.1	-778.8	-2.8	705482.0
	-8.0	162.7	-0.8	-3846.7	-11.2	700395.0
	-8.4	123.6	-0.6	-2873.8	-8.5	702000.8
833.	3.2	-6395.3	0.4	1785.6	-169.7	-697447.9
	2.8	-6434.3	0.6	2758.5	-258.7	-712113.6
	7.8	-6311.0	-0.1	-309.4	25.1	-665817.9
	7.4	-6350.0	0.2	663.4	-63.9	-680483.6
	-2.3	-6331.5	0.1	194.5	-28.9	-673492.5
	-2.7	-6370.6	0.3	1167.3	-118.0	-688158.2
	2.2	-6247.2	-0.4	-1900.5	165.9	-641862.5
	1.8	-6286.3	-0.2	-927.7	76.8	-656528.2
	-7.0	-6317.1	0.0	-160.5	-10.2	-667948.8

		-7.4	-6356.1	0.2	812.3	-99.3	-682614.5
		-2.4	-6232.8	-0.5	-2255.5	184.6	-636318.8
		-2.8	-6271.9	-0.2	-1282.7	95.5	-650984.5
		-12.6	-6253.3	-0.3	-1751.6	130.5	-643993.5
		-13.0	-6292.4	-0.1	-778.8	41.5	-658659.2
		-8.0	-6169.1	-0.8	-3846.7	325.3	-612363.5
		-8.4	-6208.1	-0.6	-2873.8	236.3	-627029.2
Asta	262	nod	112	181			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	3.9	4832.0	4.0	-58854.0	518.1	-571629.5	
	3.9	4758.4	6.1	-56450.8	775.4	-568066.2	
	15.9	4991.1	-0.3	-64073.5	-34.3	-579354.3	
	16.0	4917.5	1.7	-61670.4	223.0	-575791.0	
	-6.7	4952.1	0.7	-62754.1	95.3	-577422.6	
	-6.7	4878.4	2.7	-60350.9	352.6	-573859.3	
	5.4	5111.1	-3.7	-67973.7	-457.1	-585147.4	
	5.4	5037.5	-1.7	-65570.5	-199.8	-581584.1	
	-11.5	4978.0	0.2	-63419.0	15.0	-578594.7	
	-11.4	4904.4	2.2	-61015.9	272.3	-575031.4	
	0.6	5137.1	-4.2	-68638.6	-537.5	-586319.4	
	0.6	5063.5	-2.1	-66235.4	-280.2	-582756.1	
	-22.0	5098.1	-3.2	-67319.1	-407.8	-584387.8	
	-22.0	5024.5	-1.1	-64916.0	-150.5	-580824.5	
	-10.0	5257.1	-7.5	-72538.7	-960.2	-592112.5	
	-9.9	5183.5	-5.5	-70135.6	-703.0	-588549.2	
68.	3.9	3448.7	4.0	-58854.0	243.6	-288880.3	
	3.9	3375.1	6.1	-56450.8	361.7	-290350.3	
	15.9	3607.7	-0.3	-64073.5	-10.8	-285728.9	
	16.0	3534.1	1.7	-61670.4	107.4	-287198.9	
	-6.7	3568.7	0.7	-62754.1	50.0	-286464.9	
	-6.7	3495.1	2.7	-60350.9	168.2	-287934.9	
	5.4	3727.8	-3.7	-67973.7	-204.4	-283313.5	
	5.4	3654.2	-1.7	-65570.5	-86.2	-284783.5	
	-11.5	3594.7	0.2	-63419.0	1.0	-285860.2	
	-11.4	3521.1	2.2	-61015.9	119.1	-287330.2	
	0.6	3753.7	-4.2	-68638.6	-253.4	-282708.9	
	0.6	3680.1	-2.1	-66235.4	-135.2	-284178.9	
	-22.0	3714.7	-3.2	-67319.1	-192.6	-283444.8	
	-22.0	3641.1	-1.1	-64916.0	-74.4	-284914.8	
	-10.0	3873.8	-7.5	-72538.7	-447.0	-280293.5	
	-9.9	3800.2	-5.5	-70135.6	-328.8	-281763.5	
137.	3.9	2127.6	4.0	-58854.0	-36.2	-98589.2	
	3.9	2054.0	6.1	-56450.8	-57.1	-105092.5	
	15.9	2286.7	-0.3	-64073.5	7.6	-84562.2	
	16.0	2213.1	1.7	-61670.4	-13.3	-91065.6	
	-6.7	2247.7	0.7	-62754.1	-0.6	-87965.3	
	-6.7	2174.1	2.7	-60350.9	-21.5	-94468.6	
	5.4	2406.7	-3.7	-67973.7	43.3	-73938.4	
	5.4	2333.1	-1.7	-65570.5	22.3	-80441.7	
	-11.5	2273.6	0.2	-63419.0	-7.9	-85585.6	
	-11.4	2200.0	2.2	-61015.9	-28.8	-92088.9	
	0.6	2432.7	-4.2	-68638.6	35.9	-71558.6	
	0.6	2359.1	-2.1	-66235.4	15.0	-78062.0	
	-22.0	2393.7	-3.2	-67319.1	27.7	-74961.7	
	-22.0	2320.1	-1.1	-64916.0	6.8	-81465.1	
	-10.0	2552.7	-7.5	-72538.7	71.6	-60934.8	
	-9.9	2479.1	-5.5	-70135.6	50.6	-67438.1	
Asta	263	nod	181	111			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-11.3	2127.6	1.7	90967.2	-36.2	-70060.1	
	-11.1	2054.0	2.4	97708.4	-57.1	-68440.0	
	-18.1	2286.7	0.1	76423.0	7.6	-73590.6	
	-17.9	2213.1	0.8	83164.2	-13.3	-71970.5	
	-6.4	2247.7	0.4	79957.8	-0.6	-72681.2	
	-6.2	2174.1	1.2	86699.0	-21.5	-71061.1	
	-13.2	2406.7	-1.2	65413.6	43.3	-76211.7	
	-13.0	2333.1	-0.4	72154.8	22.3	-74591.6	
	9.7	2273.6	-0.1	77516.7	-7.9	-73062.7	
	9.9	2200.0	0.6	84257.9	-28.8	-71442.6	
	2.9	2432.7	-1.7	62972.5	35.9	-76593.3	
	3.1	2359.1	-1.0	69713.7	15.0	-74973.2	
	14.6	2393.7	-1.4	66507.3	27.7	-75683.9	
	14.8	2320.1	-0.6	73248.5	6.8	-74063.8	
	7.8	2552.7	-3.0	51963.0	71.6	-79214.4	
	8.0	2479.1	-2.3	58704.2	50.6	-77594.3	
79.	-11.3	945.6	1.7	90967.2	-164.0	51088.6	
	-11.1	872.0	2.4	97708.4	-244.1	46922.0	
	-18.1	1104.6	0.1	76423.0	6.0	60062.2	
	-17.9	1031.0	0.8	83164.2	-74.1	55895.6	
	-6.4	1065.6	0.4	79957.8	-27.8	57904.7	
	-6.2	992.0	1.2	86699.0	-107.9	53738.0	
	-13.2	1224.7	-1.2	65413.6	142.2	66878.3	
	-13.0	1151.1	-0.4	72154.8	62.1	62711.7	
	9.7	1091.6	-0.1	77516.7	-4.1	59570.0	
	9.9	1018.0	0.6	84257.9	-84.2	55403.4	
	2.9	1250.7	-1.7	62972.5	165.9	68543.6	
	3.1	1177.1	-1.0	69713.7	85.8	64377.0	
	14.6	1211.7	-1.4	66507.3	132.1	66386.0	
	14.8	1138.0	-0.6	73248.5	52.0	62219.4	

157.	7.8	1370.7	-3.0	51963.0	302.0	75359.6
	8.0	1297.1	-2.3	58704.2	221.9	71193.0
	-11.3	-290.7	1.7	90967.2	-297.0	77186.1
	-11.1	-364.3	2.4	97708.4	-436.2	67232.7
	-18.1	-131.6	0.1	76423.0	-0.8	98663.3
	-17.9	-205.2	0.8	83164.2	-140.1	88710.0
	-6.4	-170.6	0.4	79957.8	-60.3	93439.3
	-6.2	-244.3	1.2	86699.0	-199.5	83485.9
	-13.2	-11.6	-1.2	65413.6	235.9	114916.5
	-13.0	-85.2	-0.4	72154.8	96.6	104963.2
	9.7	-144.7	-0.1	77516.7	4.9	97145.2
	9.9	-218.3	0.6	84257.9	-134.4	87191.9
	2.9	14.4	-1.7	62972.5	301.0	118622.5
	3.1	-59.2	-1.0	69713.7	161.8	108669.1
	14.6	-24.6	-1.4	66507.3	241.6	113398.4
	14.8	-98.2	-0.6	73248.5	102.3	103445.1
	7.8	134.4	-3.0	51963.0	537.7	134875.7
	8.0	60.8	-2.3	58704.2	398.5	124922.3
Asta PROGR. 0.	264	nod	127	126		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-2.0	2756.5	2.0	8234.0	378.2	-179576.5
	-1.9	2723.4	3.0	9602.4	566.9	-174298.4
	-2.8	2828.2	-0.1	5284.3	-26.4	-190978.9
	-2.7	2795.0	0.9	6652.7	162.2	-185700.8
	-1.4	2810.6	0.4	5997.9	69.6	-188181.1
	-1.3	2777.5	1.4	7366.3	258.2	-182903.0
	-2.2	2882.2	-1.8	3048.3	-335.1	-199583.5
	-2.1	2849.1	-0.8	4416.6	-146.5	-194305.4
	-3.9	2821.6	0.1	5521.4	9.7	-189894.9
	-3.8	2788.4	1.1	6889.8	198.4	-184616.8
	-4.7	2893.2	-2.1	2571.7	-394.9	-201297.2
	-4.7	2860.1	-1.1	3940.1	-206.3	-196019.1
	-3.3	2875.7	-1.6	3285.4	-298.9	-198499.5
	-3.3	2842.5	-0.6	4653.7	-110.3	-193221.4
	-4.1	2947.3	-3.7	335.7	-703.6	-209901.8
	-4.1	2914.2	-2.7	1704.0	-515.0	-204623.7
212.	-2.0	64.9	2.0	8234.0	-46.5	133028.8
	-1.9	31.7	3.0	9602.4	-69.8	131286.3
	-2.8	136.5	-0.1	5284.3	3.5	136787.0
	-2.7	103.4	0.9	6652.7	-19.7	135044.5
	-1.4	119.0	0.4	5997.9	-8.3	135874.6
	-1.3	85.8	1.4	7366.3	-31.5	134132.1
	-2.2	190.6	-1.8	3048.3	41.8	139632.8
	-2.1	157.5	-0.8	4416.6	18.6	137890.4
	-3.9	130.0	0.1	5521.4	-1.5	136485.0
	-3.8	96.8	1.1	6889.8	-24.7	134742.5
	-4.7	201.6	-2.1	2571.7	48.6	140243.2
	-4.7	168.4	-1.1	3940.1	25.3	138500.7
	-3.3	184.1	-1.6	3285.4	36.8	139330.8
	-3.3	150.9	-0.6	4653.7	13.6	137588.4
	-4.1	255.7	-3.7	335.7	86.9	143089.1
	-4.1	222.5	-2.7	1704.0	63.6	141346.6
423.	-2.0	-3419.6	2.0	8234.0	-471.3	-208042.3
	-1.9	-3452.8	3.0	9602.4	-706.4	-216805.3
	-2.8	-3348.0	-0.1	5284.3	33.4	-189123.5
	-2.7	-3381.2	0.9	6652.7	-201.7	-197886.5
	-1.4	-3365.5	0.4	5997.9	-86.1	-193746.0
	-1.3	-3398.7	1.4	7366.3	-321.2	-202509.0
	-2.2	-3293.9	-1.8	3048.3	418.7	-174827.2
	-2.1	-3327.1	-0.8	4416.6	183.6	-183590.2
	-3.9	-3354.5	0.1	5521.4	-12.7	-190811.7
	-3.8	-3387.7	1.1	6889.8	-247.8	-199574.8
	-4.7	-3282.9	-2.1	2571.7	492.1	-171892.9
	-4.7	-3316.1	-1.1	3940.1	256.9	-180655.9
	-3.3	-3300.5	-1.6	3285.4	372.6	-176515.4
	-3.3	-3333.6	-0.6	4653.7	137.4	-185278.5
	-4.1	-3228.8	-3.7	335.7	877.3	-157596.6
	-4.1	-3262.0	-2.7	1704.0	642.2	-166359.7
Asta PROGR. 0.	271	nod	125	124		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-2.1	-57.8	8.8	17864.6	516.1	33964.6
	-2.2	-165.4	13.2	21184.3	771.5	38681.5
	-1.9	174.9	-0.6	10709.6	-37.2	23749.2
	-2.0	67.3	3.7	14029.3	218.2	28466.1
	-1.5	117.5	1.6	12438.7	95.6	26295.6
	-1.6	9.9	6.0	15758.4	350.9	31012.5
	-1.3	350.2	-7.8	5283.7	-457.7	16080.2
	-1.4	242.6	-3.4	8603.4	-202.4	20797.1
	-1.0	152.1	0.0	11258.6	-4.6	24870.5
	-1.1	44.5	4.4	14578.3	250.8	29587.4
	-0.8	384.8	-9.4	4103.6	-557.9	14655.1
	-0.9	277.2	-5.1	7423.3	-302.5	19372.0
	-0.4	327.4	-7.2	5832.7	-425.1	17201.5
	-0.5	219.7	-2.8	9152.4	-169.7	21918.4
	-0.3	560.0	-16.6	-1322.3	-978.4	6986.2
	-0.4	452.4	-12.3	1997.4	-723.1	11703.1
67.	-2.1	-685.4	8.8	17864.6	-77.0	9507.9
	-2.2	-793.0	13.2	21184.3	-115.4	6992.8
	-1.9	-452.7	-0.6	10709.6	4.5	14929.8

	-2.0	-560.3	3.7	14029.3	-33.9	12414.7
	-1.5	-510.1	1.6	12438.7	-14.2	13618.2
	-1.6	-617.7	6.0	15758.4	-52.6	11103.1
	-1.3	-277.4	-7.8	5283.7	67.3	19040.1
	-1.4	-385.0	-3.4	8603.4	28.9	16525.0
	-1.0	-475.5	0.0	11258.6	-5.1	14518.4
	-1.1	-583.1	4.4	14578.3	-43.4	12003.3
	-0.8	-242.8	-9.4	4103.6	76.4	19940.3
	-0.9	-350.4	-5.1	7423.3	38.1	17425.2
	-0.4	-300.2	-7.2	5832.7	57.7	18628.7
	-0.5	-407.8	-2.8	9152.4	19.4	16113.6
	-0.3	-67.5	-16.6	-1322.3	139.2	24050.6
	-0.4	-175.1	-12.3	1997.4	100.8	21535.5
134.	-2.1	-1404.8	8.8	17864.6	-669.9	-60209.0
	-2.2	-1512.4	13.2	21184.3	-1002.0	-69956.2
	-1.9	-1172.1	-0.6	10709.6	46.3	-39150.0
	-2.0	-1279.7	3.7	14029.3	-285.8	-48897.1
	-1.5	-1229.5	1.6	12438.7	-123.7	-44319.4
	-1.6	-1337.1	6.0	15758.4	-455.8	-54066.6
	-1.3	-996.8	-7.8	5283.7	592.5	-23260.4
	-1.4	-1104.4	-3.4	8603.4	260.4	-33007.6
	-1.0	-1194.9	0.0	11258.6	-5.7	-41095.2
	-1.1	-1302.5	4.4	14578.3	-337.8	-50842.4
	-0.8	-962.2	-9.4	4103.6	710.5	-20036.2
	-0.9	-1069.8	-5.1	7423.3	378.4	-29783.4
	-0.4	-1019.6	-7.2	5832.7	540.4	-25205.6
	-0.5	-1127.2	-2.8	9152.4	208.3	-34952.8
	-0.3	-786.9	-16.6	-1322.3	1256.6	-4146.6
	-0.4	-894.6	-12.3	1997.4	924.5	-13893.8
Asta	272	nod	87	88		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2.9	3306.8	3.2	4048.5	519.8	-137256.4
	-2.6	3334.3	4.7	4225.9	780.7	-142061.5
	-1.3	3248.2	-0.2	3667.6	-41.9	-126988.4
	-1.0	3275.6	1.3	3844.9	219.0	-131793.5
	-2.5	3262.0	0.6	3757.4	90.6	-129400.6
	-2.2	3289.4	2.1	3934.8	351.5	-134205.7
	-0.9	3203.3	-2.8	3376.5	-471.1	-119132.6
	-0.6	3230.8	-1.3	3553.8	-210.1	-123937.8
	-2.5	3252.7	0.1	3699.7	20.3	-127775.1
	-2.2	3280.1	1.7	3877.0	281.2	-132580.2
	-0.9	3194.0	-3.3	3318.7	-541.4	-117507.1
	-0.6	3221.5	-1.7	3496.1	-280.5	-122312.3
	-2.1	3207.8	-2.5	3408.6	-408.9	-119919.3
	-1.8	3235.3	-0.9	3585.9	-148.0	-124724.5
	-0.5	3149.2	-5.9	3027.6	-970.6	-109651.4
	-0.2	3176.6	-4.3	3205.0	-709.7	-114456.5
165.	-2.9	-243.2	3.2	4048.5	-3.2	115495.7
	-2.6	-215.7	4.7	4225.9	-3.3	115218.3
	-1.3	-301.8	-0.2	3667.6	-3.4	116088.3
	-1.0	-274.4	1.3	3844.9	-3.4	115810.9
	-2.5	-288.0	0.6	3757.4	-3.6	115949.1
	-2.2	-260.6	2.1	3934.8	-3.6	115671.7
	-0.9	-346.7	-2.8	3376.5	-3.7	116541.7
	-0.6	-319.2	-1.3	3553.8	-3.7	116264.2
	-2.5	-297.3	0.1	3699.7	2.5	116043.7
	-2.2	-269.9	1.7	3877.0	2.5	115766.3
	-0.9	-355.9	-3.3	3318.7	2.4	116636.3
	-0.6	-328.5	-1.7	3496.1	2.3	116358.9
	-2.1	-342.2	-2.5	3408.6	2.2	116497.1
	-1.8	-314.7	-0.9	3585.9	2.1	116219.6
	-0.5	-400.8	-5.9	3027.6	2.0	117089.6
	-0.2	-373.4	-4.3	3205.0	2.0	116812.2
330.	-2.9	-3793.1	3.2	4048.5	-524.6	-217498.0
	-2.6	-3765.7	4.7	4225.9	-785.6	-213247.7
	-1.3	-3851.8	-0.2	3667.6	37.1	-226580.8
	-1.0	-3824.3	1.3	3844.9	-223.9	-222330.5
	-2.5	-3838.0	0.6	3757.4	-96.1	-224447.1
	-2.2	-3810.6	2.1	3934.8	-357.1	-220196.8
	-0.9	-3896.6	-2.8	3376.5	465.6	-233529.9
	-0.6	-3869.2	-1.3	3553.8	204.6	-229279.6
	-2.5	-3847.3	0.1	3699.7	-17.2	-225883.3
	-2.2	-3819.8	1.7	3877.0	-278.2	-221633.0
	-0.9	-3905.9	-3.3	3318.7	544.5	-234966.1
	-0.6	-3878.5	-1.7	3496.1	283.5	-230715.8
	-2.1	-3892.1	-2.5	3408.6	411.3	-232832.4
	-1.8	-3864.7	-0.9	3585.9	150.4	-228582.1
	-0.5	-3950.8	-5.9	3027.6	973.0	-241915.2
	-0.2	-3923.3	-4.3	3205.0	712.0	-237664.9
Asta	273	nod	88	89		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-14.4	3681.1	2.5	126.4	452.5	-214421.9
	-14.0	3704.2	3.8	427.7	681.0	-218267.4
	-15.1	3631.8	-0.2	-520.6	-37.2	-206206.0
	-14.7	3654.9	1.0	-219.4	191.2	-210051.6
	-15.6	3643.4	0.4	-368.8	76.7	-208136.2
	-15.3	3666.4	1.7	-67.5	305.2	-211981.7
	-16.3	3594.0	-2.3	-1015.9	-413.1	-199920.4

	-16.0	3617.1	-1.1	-714.6	-184.6	-203765.9
	12.6	3635.4	0.1	-456.0	11.1	-206819.5
	12.9	3658.5	1.4	-154.7	239.5	-210665.0
	11.9	3586.1	-2.7	-1103.0	-478.7	-198603.7
	12.2	3609.2	-1.4	-801.7	-250.3	-202449.2
	11.4	3597.7	-2.0	-951.2	-364.8	-200533.8
	11.7	3620.8	-0.7	-649.9	-136.3	-204379.3
	10.7	3548.4	-4.8	-1598.2	-854.6	-192318.0
	11.0	3571.5	-3.5	-1296.9	-626.1	-196163.5
165.	-14.4	131.1	2.5	126.4	38.5	100084.8
	-14.0	154.2	3.8	427.7	55.8	100047.8
	-15.1	81.8	-0.2	-520.6	2.3	100163.7
	-14.7	104.9	1.0	-219.4	19.6	100126.7
	-15.6	93.4	0.4	-368.8	11.0	100145.3
	-15.3	116.5	1.7	-67.5	28.3	100108.3
	-16.3	44.1	-2.3	-1015.9	-25.2	100224.2
	-16.0	67.2	-1.1	-714.6	-7.9	100187.2
	12.6	85.5	0.1	-456.0	-5.4	100156.2
	12.9	108.6	1.4	-154.7	11.9	100119.2
	11.9	36.2	-2.7	-1103.0	-41.6	100235.1
	12.2	59.2	-1.4	-801.7	-24.3	100198.2
	11.4	47.7	-2.0	-951.2	-32.9	100216.7
	11.7	70.8	-0.7	-649.9	-15.6	100179.7
	10.7	-1.6	-4.8	-1598.2	-69.1	100295.6
	11.0	21.5	-3.5	-1296.9	-51.8	100258.6
330.	-14.4	-3418.9	2.5	126.4	-376.9	-171154.4
	-14.0	-3395.8	3.8	427.7	-570.9	-167382.8
	-15.1	-3468.2	-0.2	-520.6	40.6	-179212.4
	-14.7	-3445.1	1.0	-219.4	-153.4	-175440.8
	-15.6	-3456.6	0.4	-368.8	-56.1	-177319.1
	-15.3	-3433.5	1.7	-67.5	-250.0	-173547.6
	-16.3	-3505.9	-2.3	-1015.9	361.4	-185377.2
	-16.0	-3482.8	-1.1	-714.6	167.5	-181605.6
	12.6	-3464.5	0.1	-456.0	-20.5	-178613.9
	12.9	-3441.4	1.4	-154.7	-214.5	-174842.4
	11.9	-3513.8	-2.7	-1103.0	397.0	-186671.9
	12.2	-3490.7	-1.4	-801.7	203.0	-182900.4
	11.4	-3502.2	-2.0	-951.2	300.3	-184778.7
	11.7	-3479.2	-0.7	-649.9	106.4	-181007.1
	10.7	-3551.5	-4.8	-1598.2	717.8	-192836.7
	11.0	-3528.5	-3.5	-1296.9	523.9	-189065.2
Asta	274	nod	89	90		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-14.9	3073.3	2.7	498.5	381.8	-159322.2
	-14.3	3103.7	4.0	745.8	569.6	-163586.1
	-12.5	3008.2	-0.2	-32.2	-20.5	-150212.1
	-11.9	3038.7	1.2	215.0	167.3	-154476.0
	-16.1	3023.5	0.5	92.7	73.5	-152353.0
	-15.5	3053.9	1.8	340.0	261.4	-156616.8
	-13.8	2958.4	-2.4	-438.1	-328.8	-143242.9
	-13.1	2988.9	-1.1	-190.8	-140.9	-147506.7
	10.7	3013.0	0.0	9.1	2.0	-150881.2
	11.3	3043.4	1.4	256.4	189.8	-155145.1
	13.0	2947.9	-2.8	-521.7	-400.3	-141771.1
	13.6	2978.3	-1.5	-274.4	-212.5	-146035.0
	9.4	2963.2	-2.2	-396.7	-306.2	-143911.9
	10.0	2993.6	-0.8	-149.5	-118.4	-148175.8
	11.8	2898.1	-5.0	-927.5	-708.5	-134801.8
	12.4	2928.6	-3.7	-680.2	-520.7	-139065.7
140.	-14.9	61.2	2.7	498.5	9.3	60089.1
	-14.3	91.6	4.0	745.8	8.8	60089.5
	-12.5	-3.9	-0.2	-32.2	7.3	60087.9
	-11.9	26.6	1.2	215.0	6.9	60088.4
	-16.1	11.4	0.5	92.7	9.7	60088.3
	-15.5	41.8	1.8	340.0	9.3	60088.8
	-13.8	-53.7	-2.4	-438.1	7.8	60087.1
	-13.1	-23.2	-1.1	-190.8	7.4	60087.6
	10.7	0.9	0.0	9.1	-5.6	60086.0
	11.3	31.3	1.4	256.4	-6.1	60086.5
	13.0	-64.2	-2.8	-521.7	-7.6	60084.8
	13.6	-33.8	-1.5	-274.4	-8.0	60085.3
	9.4	-48.9	-2.2	-396.7	-5.2	60085.2
	10.0	-18.5	-0.8	-149.5	-5.6	60085.7
	11.8	-114.0	-5.0	-927.5	-7.1	60084.1
	12.4	-83.5	-3.7	-680.2	-7.5	60084.6
280.	-14.9	-2950.9	2.7	498.5	-369.3	-142194.1
	-14.3	-2920.5	4.0	745.8	-558.0	-137929.2
	-12.5	-3016.0	-0.2	-32.2	32.7	-151306.5
	-11.9	-2985.5	1.2	215.0	-156.1	-147041.6
	-16.1	-3000.7	0.5	92.7	-60.1	-149164.9
	-15.5	-2970.3	1.8	340.0	-248.8	-144900.0
	-13.8	-3065.8	-2.4	-438.1	341.9	-158277.3
	-13.1	-3035.3	-1.1	-190.8	153.2	-154012.5
	10.7	-3011.2	0.0	9.1	-10.8	-150640.4
	11.3	-2980.8	1.4	256.4	-199.6	-146375.5
	13.0	-3076.3	-2.8	-521.7	391.2	-159752.8
	13.6	-3045.9	-1.5	-274.4	202.4	-155487.9
	9.4	-3061.0	-2.2	-396.7	298.4	-157611.2
	10.0	-3030.6	-0.8	-149.5	109.7	-153346.3
	11.8	-3126.1	-5.0	-927.5	700.4	-166723.6

	12.4	-3095.6	-3.7	-680.2	511.7	-162458.8
Asta	275	nod	90	91		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-16.9	3511.3	2.7	1183.1	411.8	-186263.2
	-15.9	3534.3	4.0	1529.3	603.6	-190018.1
	-12.3	3462.3	-0.1	438.5	-6.2	-178239.5
	-11.3	3485.2	1.2	784.7	185.6	-181994.4
	-17.8	3473.8	0.6	614.7	94.4	-180125.8
	-16.9	3496.8	1.9	960.9	286.2	-183880.7
	-13.2	3424.7	-2.2	-129.9	-323.6	-172102.1
	-12.3	3447.7	-0.9	216.3	-131.8	-175857.0
	8.9	3465.8	0.0	482.5	-6.1	-178820.4
	9.9	3488.8	1.3	828.7	185.7	-182575.3
	13.5	3416.7	-2.8	-262.1	-424.2	-170796.7
	14.5	3439.7	-1.5	84.1	-232.4	-174551.6
	8.0	3428.3	-2.1	-85.9	-323.5	-172682.9
	8.9	3451.2	-0.8	260.3	-131.7	-176437.8
	12.6	3379.2	-4.9	-830.5	-741.6	-164659.2
	13.5	3402.1	-3.6	-484.3	-549.8	-168414.1
165.	-16.9	-38.6	2.7	1183.1	-32.2	100233.1
	-15.9	-15.7	4.0	1529.3	-49.8	100267.5
	-12.3	-87.7	-0.1	438.5	4.3	100159.4
	-11.3	-64.8	1.2	784.7	-13.3	100193.8
	-17.8	-76.2	0.6	614.7	-3.6	100176.9
	-16.9	-53.2	1.9	960.9	-21.2	100211.2
	-13.2	-125.3	-2.2	-129.9	32.8	100103.2
	-12.3	-102.3	-0.9	216.3	15.3	100137.6
	8.9	-84.2	0.0	482.5	-3.2	100163.0
	9.9	-61.2	1.3	828.7	-20.7	100197.4
	13.5	-133.3	-2.8	-262.1	33.3	100089.4
	14.5	-110.3	-1.5	84.1	15.7	100123.7
	8.0	-121.7	-2.1	-85.9	25.4	100106.8
	8.9	-98.8	-0.8	260.3	7.8	100141.2
	12.6	-170.8	-4.9	-830.5	61.9	100033.1
	13.5	-147.8	-3.6	-484.3	44.3	100067.5
330.	-16.9	-3588.6	2.7	1183.1	-475.1	-199016.5
	-15.9	-3565.7	4.0	1529.3	-702.1	-195192.9
	-12.3	-3637.7	-0.1	438.5	15.6	-207187.5
	-11.3	-3614.7	1.2	784.7	-211.4	-203363.9
	-17.8	-3626.2	0.6	614.7	-100.6	-205266.4
	-16.9	-3603.2	1.9	960.9	-327.6	-201442.8
	-13.2	-3675.2	-2.2	-129.9	390.1	-213437.4
	-12.3	-3652.3	-0.9	216.3	163.2	-209613.8
	8.9	-3634.2	0.0	482.5	-1.0	-206599.5
	9.9	-3611.2	1.3	828.7	-228.0	-202775.8
	13.5	-3683.2	-2.8	-262.1	489.7	-214770.4
	14.5	-3660.3	-1.5	84.1	262.7	-210946.8
	8.0	-3671.7	-2.1	-85.9	373.5	-212849.4
	8.9	-3648.7	-0.8	260.3	146.5	-209025.7
	12.6	-3720.8	-4.9	-830.5	864.2	-221020.3
	13.5	-3697.8	-3.6	-484.3	637.3	-217196.7
Asta	276	nod	91	92		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.0	3903.5	3.2	-3430.7	519.4	-234595.6
	-1.2	3931.2	4.8	-3299.5	780.8	-238899.7
	-2.2	3844.1	-0.2	-3713.3	-41.2	-225394.7
	-2.4	3871.9	1.4	-3582.0	220.2	-229698.8
	-1.4	3858.1	0.6	-3646.3	91.8	-227559.2
	-1.6	3885.8	2.2	-3515.0	353.2	-231863.3
	-2.7	3798.7	-2.8	-3928.9	-468.8	-218358.3
	-2.9	3826.5	-1.2	-3797.6	-207.4	-222662.4
	-0.3	3848.3	0.0	-3688.7	8.9	-226045.2
	-0.5	3876.1	1.6	-3557.5	270.3	-230349.3
	-1.5	3788.9	-3.4	-3971.3	-551.7	-216844.3
	-1.7	3816.7	-1.8	-3840.0	-290.3	-221148.4
	-0.7	3802.9	-2.6	-3904.3	-418.7	-219008.8
	-0.9	3830.7	-1.0	-3773.0	-157.3	-223312.9
	-2.0	3743.5	-6.0	-4186.9	-979.3	-209807.9
	-2.2	3771.3	-4.4	-4055.6	-717.9	-214112.1
165.	-1.0	353.5	3.2	-3430.7	-8.2	116602.6
	-1.2	381.3	4.8	-3299.5	-7.5	116880.8
	-2.2	294.1	-0.2	-3713.3	-5.1	116008.2
	-2.4	321.9	1.4	-3582.0	-4.4	116286.4
	-1.4	308.1	0.6	-3646.3	-8.4	116148.0
	-1.6	335.9	2.2	-3515.0	-7.7	116426.2
	-2.7	248.7	-2.8	-3928.9	-5.2	115553.6
	-2.9	276.5	-1.2	-3797.6	-4.5	115831.8
	-0.3	298.3	0.0	-3688.7	3.4	116050.6
	-0.5	326.1	1.6	-3557.5	4.1	116328.8
	-1.5	239.0	-3.4	-3971.3	6.6	115456.2
	-1.7	266.7	-1.8	-3840.0	7.3	115734.4
	-0.7	252.9	-2.6	-3904.3	3.3	115596.0
	-0.9	280.7	-1.0	-3773.0	3.9	115874.2
	-2.0	193.6	-6.0	-4186.9	6.4	115001.6
	-2.2	221.3	-4.4	-4055.6	7.1	115279.8
330.	-1.0	-3196.5	3.2	-3430.7	-530.0	-117945.1
	-1.2	-3168.7	4.8	-3299.5	-790.1	-113084.6
	-2.2	-3255.9	-0.2	-3713.3	31.3	-128334.9
	-2.4	-3228.1	1.4	-3582.0	-228.7	-123474.3

		-1.4	-3241.9	0.6	-3646.3	-102.8	-125890.7
		-1.6	-3214.1	2.2	-3515.0	-362.8	-121030.2
		-2.7	-3301.3	-2.8	-3928.9	458.6	-136280.5
		-2.9	-3273.5	-1.2	-3797.6	198.5	-131419.9
		-0.3	-3251.7	0.0	-3688.7	-2.2	-127599.4
		-0.5	-3223.9	1.6	-3557.5	-262.3	-122738.9
		-1.5	-3311.0	-3.4	-3971.3	559.1	-137989.2
		-1.7	-3283.2	-1.8	-3840.0	299.1	-133128.6
		-0.7	-3297.1	-2.6	-3904.3	425.0	-135545.0
		-0.9	-3269.3	-1.0	-3773.0	165.0	-130684.5
		-2.0	-3356.4	-6.0	-4186.9	986.4	-145934.7
		-2.2	-3328.6	-4.4	-4055.6	726.3	-141074.2
Asta		277	nod	93	92		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	2.7	1626.1	2.5	-12115.4	404.4	-91358.9	
	2.4	1602.8	3.8	-11640.1	607.3	-87605.5	
	1.0	1676.2	-0.2	-13131.6	-30.2	-99418.5	
	0.7	1652.9	1.1	-12656.3	172.7	-95665.1	
	2.9	1664.4	0.4	-12892.5	71.6	-97511.5	
	2.6	1641.0	1.7	-12417.2	274.5	-93758.1	
	1.2	1714.5	-2.3	-13908.7	-363.1	-105571.2	
	0.8	1691.2	-1.0	-13433.4	-160.1	-101817.7	
	-2.9	1673.4	0.1	-13057.5	11.6	-98963.9	
	-3.3	1650.1	1.3	-12582.2	214.5	-95210.4	
	-4.7	1723.5	-2.6	-14073.7	-423.0	-107023.5	
	-5.0	1700.2	-1.4	-13598.4	-220.1	-103270.1	
	-2.7	1711.7	-2.0	-13834.6	-321.2	-105116.5	
	-3.1	1688.3	-0.7	-13359.3	-118.3	-101363.1	
	-4.5	1761.8	-4.7	-14850.8	-755.9	-113176.1	
	-4.8	1738.5	-3.5	-14375.5	-553.0	-109422.7	
170.	2.7	32.2	2.5	-12115.4	-26.1	49610.7	
	2.4	8.8	3.8	-11640.1	-39.3	49394.9	
	1.0	82.3	-0.2	-13131.6	1.4	50074.1	
	0.7	59.0	1.1	-12656.3	-11.8	49858.4	
	2.9	70.5	0.4	-12892.5	-4.9	49964.4	
	2.6	47.1	1.7	-12417.2	-18.2	49748.7	
	1.2	120.6	-2.3	-13908.7	22.5	50427.9	
	0.8	97.2	-1.0	-13433.4	9.3	50212.2	
	-2.9	79.5	0.1	-13057.5	-0.6	50048.2	
	-3.3	56.1	1.3	-12582.2	-13.8	49832.5	
	-4.7	129.6	-2.6	-14073.7	26.9	50511.7	
	-5.0	106.3	-1.4	-13598.4	13.7	50296.0	
	-2.7	117.8	-2.0	-13834.6	20.6	50402.0	
	-3.1	94.4	-0.7	-13359.3	7.4	50186.2	
	-4.5	167.9	-4.7	-14850.8	48.1	50865.5	
	-4.8	144.5	-3.5	-14375.5	34.8	50649.7	
340.	2.7	-1561.7	2.5	-12115.4	-456.6	-80415.9	
	2.4	-1585.1	3.8	-11640.1	-685.9	-84600.8	
	1.0	-1511.6	-0.2	-13131.6	32.9	-71429.3	
	0.7	-1535.0	1.1	-12656.3	-196.4	-75614.2	
	2.9	-1523.5	0.4	-12892.5	-81.4	-73555.7	
	2.6	-1546.8	1.7	-12417.2	-310.8	-77740.6	
	1.2	-1473.3	-2.3	-13908.7	408.1	-64569.1	
	0.8	-1496.7	-1.0	-13433.4	178.8	-68754.0	
	-2.9	-1514.4	0.1	-13057.5	-12.7	-71935.8	
	-3.3	-1537.8	1.3	-12582.2	-242.0	-76120.7	
	-4.7	-1464.3	-2.6	-14073.7	476.8	-62949.2	
	-5.0	-1487.7	-1.4	-13598.4	247.5	-67134.1	
	-2.7	-1476.2	-2.0	-13834.6	362.4	-65075.6	
	-3.1	-1499.5	-0.7	-13359.3	133.1	-69260.5	
	-4.5	-1426.0	-4.7	-14850.8	852.0	-56089.0	
	-4.8	-1449.4	-3.5	-14375.5	622.6	-60274.0	
Asta		278	nod	94	93		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-2.1	1531.1	1.5	7823.6	242.9	-73835.6	
	-2.2	1508.3	2.4	7995.8	378.3	-69705.3	
	-2.0	1580.2	-0.2	7455.3	-34.7	-82704.3	
	-2.1	1557.3	0.6	7627.5	100.7	-78574.0	
	-2.4	1568.6	0.2	7542.0	27.8	-80605.7	
	-2.5	1545.7	1.0	7714.3	163.2	-76475.4	
	-2.3	1617.6	-1.6	7173.7	-249.8	-89474.4	
	-2.4	1594.8	-0.7	7346.0	-114.4	-85344.1	
	-1.2	1577.4	0.1	7482.5	16.9	-82207.3	
	-1.3	1554.6	0.9	7654.8	152.3	-78076.9	
	-1.1	1626.5	-1.7	7114.2	-260.7	-91076.0	
	-1.2	1603.6	-0.8	7286.5	-125.3	-86945.7	
	-1.5	1614.9	-1.3	7201.0	-198.2	-88977.4	
	-1.6	1592.0	-0.4	7373.3	-62.8	-84847.0	
	-1.4	1663.9	-3.0	6832.7	-475.8	-97846.1	
	-1.5	1641.1	-2.2	7005.0	-340.4	-93715.8	
173.	-2.1	-86.1	1.5	7823.6	-22.5	50801.3	
	-2.2	-108.9	2.4	7995.8	-33.5	50991.1	
	-2.0	-37.0	-0.2	7455.3	1.9	50393.8	
	-2.1	-59.9	0.6	7627.5	-9.1	50583.6	
	-2.4	-48.6	0.2	7542.0	-4.6	50490.2	
	-2.5	-71.5	1.0	7714.3	-15.6	50680.1	
	-2.3	0.4	-1.6	7173.7	19.8	50082.7	
	-2.4	-22.4	-0.7	7346.0	8.8	50272.5	
	-1.2	-39.8	0.1	7482.5	1.0	50417.1	

	-1.3	-62.6	0.9	7654.8	-10.0	50606.9
	-1.1	9.3	-1.7	7114.2	25.3	50009.6
	-1.2	-13.5	-0.8	7286.5	14.3	50199.4
	-1.5	-2.3	-1.3	7201.0	18.8	50106.1
	-1.6	-25.2	-0.4	7373.3	7.8	50295.9
	-1.4	46.7	-3.0	6832.7	43.2	49698.6
	-1.5	23.9	-2.2	7005.0	32.2	49888.4
345.	-2.1	-1703.2	1.5	7823.6	-287.2	-103526.7
	-2.2	-1726.1	2.4	7995.8	-444.6	-107277.4
	-2.0	-1654.2	-0.2	7455.3	38.7	-95473.0
	-2.1	-1677.0	0.6	7627.5	-118.7	-99223.7
	-2.4	-1665.8	0.2	7542.0	-36.4	-97378.6
	-2.5	-1688.6	1.0	7714.3	-193.8	-101129.4
	-2.3	-1616.8	-1.6	7173.7	289.6	-89324.9
	-2.4	-1639.6	-0.7	7346.0	132.2	-93075.7
	-1.2	-1656.9	0.1	7482.5	-15.2	-95923.4
	-1.3	-1679.8	0.9	7654.8	-172.6	-99674.1
	-1.1	-1607.9	-1.7	7114.2	310.7	-87869.7
	-1.2	-1630.7	-0.8	7286.5	153.3	-91620.4
	-1.5	-1619.5	-1.3	7201.0	235.6	-89775.3
	-1.6	-1642.3	-0.4	7373.3	78.2	-93526.0
	-1.4	-1570.4	-3.0	6832.7	561.6	-81721.6
	-1.5	-1593.3	-2.2	7005.0	404.2	-85472.3
Asta	279	nod	94	164		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	5.6	3212.6	7.6	-13705.5	564.7	-241030.0
	5.0	3242.6	11.4	-13525.3	850.4	-243084.1
	1.5	3148.6	-0.6	-14092.1	-48.8	-236635.3
	0.9	3178.6	3.2	-13912.0	236.9	-238689.4
	6.2	3163.7	1.4	-14000.3	99.9	-237672.1
	5.6	3193.6	5.2	-13820.1	385.6	-239726.2
	2.1	3099.7	-6.7	-14386.9	-513.7	-233277.4
	1.5	3129.6	-3.0	-14206.8	-228.0	-235331.5
	-1.4	3152.6	0.1	-14061.1	4.5	-236905.2
	-2.0	3182.5	3.9	-13881.0	290.2	-238959.4
	-5.5	3088.6	-8.1	-14447.7	-609.1	-232510.6
	-6.1	3118.5	-4.3	-14267.6	-323.4	-234564.7
	-0.8	3103.7	-6.1	-14355.9	-460.4	-233547.3
	-1.4	3133.6	-2.3	-14175.8	-174.6	-235601.4
	-4.9	3039.7	-14.2	-14742.5	-1073.9	-229152.6
	-5.5	3069.6	-10.4	-14562.4	-788.2	-231206.8
88.	5.6	1798.2	7.6	-13705.5	-98.9	-21806.3
	5.0	1828.1	11.4	-13525.3	-144.9	-21240.4
	1.5	1734.2	-0.6	-14092.1	0.5	-23011.6
	0.9	1764.1	3.2	-13912.0	-45.5	-22445.7
	6.2	1749.3	1.4	-14000.3	-22.5	-22729.5
	5.6	1779.2	5.2	-13820.1	-68.5	-22163.6
	2.1	1685.3	-6.7	-14386.9	76.9	-23934.8
	1.5	1715.2	-3.0	-14206.8	30.9	-23368.9
	-1.4	1738.2	0.1	-14061.1	-3.9	-22935.1
	-2.0	1768.1	3.9	-13881.0	-49.9	-22369.2
	-5.5	1674.2	-8.1	-14447.7	95.6	-24140.4
	-6.1	1704.1	-4.3	-14267.6	49.6	-23574.5
	-0.8	1689.2	-6.1	-14355.9	72.5	-23858.3
	-1.4	1719.2	-2.3	-14175.8	26.5	-23292.4
	-4.9	1625.2	-14.2	-14742.5	172.0	-25063.6
	-5.5	1655.2	-10.4	-14562.4	126.0	-24497.7
175.	5.6	383.8	7.6	-13705.5	-762.6	73654.1
	5.0	413.7	11.4	-13525.3	-1140.3	76840.0
	1.5	319.8	-0.6	-14092.1	49.9	66848.9
	0.9	349.7	3.2	-13912.0	-327.8	70034.8
	6.2	334.8	1.4	-14000.3	-145.0	68449.8
	5.6	364.8	5.2	-13820.1	-522.7	71635.7
	2.1	270.8	-6.7	-14386.9	667.5	61644.6
	1.5	300.8	-3.0	-14206.8	289.9	64830.5
	-1.4	323.7	0.1	-14061.1	-12.3	67271.8
	-2.0	353.7	3.9	-13881.0	-390.0	70457.7
	-5.5	259.7	-8.1	-14447.7	800.2	60466.5
	-6.1	289.7	-4.3	-14267.6	422.6	63652.4
	-0.8	274.8	-6.1	-14355.9	605.4	62067.5
	-1.4	304.7	-2.3	-14175.8	227.7	65253.4
	-4.9	210.8	-14.2	-14742.5	1417.9	55262.2
	-5.5	240.7	-10.4	-14562.4	1040.2	58448.1
Asta	280	nod	165	164		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-7.3	1455.6	3.1	-41444.1	483.5	-67794.2
	-6.7	1427.1	4.6	-41195.7	731.8	-63482.7
	-2.0	1516.6	-0.3	-41974.5	-47.8	-77051.5
	-1.4	1488.2	1.3	-41726.1	200.5	-72740.0
	-8.9	1502.2	0.5	-41849.9	75.9	-74859.2
	-8.3	1473.7	2.1	-41601.5	324.2	-70547.7
	-3.6	1563.2	-2.8	-42380.3	-455.4	-84116.4
	-3.0	1534.8	-1.3	-42131.9	-207.1	-79805.0
	4.3	1513.1	0.0	-41938.3	2.8	-76512.3
	4.9	1484.6	1.6	-41689.8	251.1	-72200.9
	9.6	1574.1	-3.3	-42468.7	-528.5	-85769.6
	10.2	1545.7	-1.8	-42220.2	-280.2	-81458.2
	2.7	1559.7	-2.5	-42344.1	-404.8	-83577.3
	3.3	1531.2	-1.0	-42095.6	-156.5	-79265.9

	8.0	1620.7	-5.9	-42874.5	-936.1	-92834.6
	8.6	1592.3	-4.3	-42626.0	-687.8	-88523.2
162.	-7.3	-59.9	3.1	-41444.1	-12.9	45010.6
	-6.7	-88.3	4.6	-41195.7	-16.9	44725.5
	-2.0	1.2	-0.3	-41974.5	-4.7	45622.5
	-1.4	-27.3	1.3	-41726.1	-8.7	45337.4
	-8.9	-13.3	0.5	-41849.9	-6.9	45477.9
	-8.3	-41.7	2.1	-41601.5	-11.0	45192.8
	-3.6	47.7	-2.8	-42380.3	1.3	46089.9
	-3.0	19.3	-1.3	-42131.9	-2.8	45804.8
	4.3	-2.4	0.0	-41938.3	0.6	45585.6
	4.9	-30.8	1.6	-41689.8	-3.4	45300.4
	9.6	58.6	-3.3	-42468.7	8.8	46197.5
	10.2	30.2	-1.8	-42220.2	4.8	45912.4
	2.7	44.2	-2.5	-42344.1	6.6	46052.9
	3.3	15.7	-1.0	-42095.6	2.6	45767.8
	8.0	105.2	-5.9	-42874.5	14.8	46664.9
	8.6	76.8	-4.3	-42626.0	10.8	46379.7
323.	-7.3	-1575.4	3.1	-41444.1	-508.5	-87160.2
	-6.7	-1603.8	4.6	-41195.7	-764.8	-92041.8
	-2.0	-1514.3	-0.3	-41974.5	39.2	-76679.0
	-1.4	-1542.8	1.3	-41726.1	-217.1	-81560.7
	-8.9	-1528.8	0.5	-41849.9	-88.9	-79160.5
	-8.3	-1557.2	2.1	-41601.5	-345.2	-84042.1
	-3.6	-1467.7	-2.8	-42380.3	458.8	-68679.3
	-3.0	-1496.2	-1.3	-42131.9	202.4	-73560.9
	4.3	-1517.9	0.0	-41938.3	-2.4	-77292.1
	4.9	-1546.3	1.6	-41689.8	-258.7	-82173.7
	9.6	-1456.8	-3.3	-42468.7	545.3	-66810.9
	10.2	-1485.3	-1.8	-42220.2	289.0	-71692.5
	2.7	-1471.3	-2.5	-42344.1	417.2	-69292.4
	3.3	-1499.7	-1.0	-42095.6	160.9	-74174.0
	8.0	-1410.2	-5.9	-42874.5	964.9	-58811.2
	8.6	-1438.7	-4.3	-42626.0	708.5	-63692.8
Asta	281	nod1	166	165		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-7.9	1438.4	3.1	-1283.0	505.2	-69007.3
	-7.3	1414.4	4.6	-1136.4	752.6	-65091.8
	0.5	1490.1	-0.1	-1596.6	-7.3	-77420.2
	1.1	1466.1	1.4	-1450.0	240.1	-73504.6
	-12.0	1477.8	0.7	-1521.5	108.1	-75422.4
	-11.4	1453.8	2.2	-1374.9	355.5	-71506.8
	-3.5	1529.5	-2.5	-1835.1	-404.4	-83835.3
	-3.0	1505.5	-1.0	-1688.5	-157.0	-79919.7
	2.5	1487.1	0.0	-1575.1	2.7	-76932.7
	3.0	1463.1	1.6	-1428.5	250.1	-73017.1
	10.9	1538.8	-3.1	-1888.7	-509.8	-85345.6
	11.5	1514.7	-1.6	-1742.1	-262.4	-81430.0
	-1.6	1526.5	-2.4	-1813.6	-394.4	-83347.8
	-1.0	1502.5	-0.9	-1667.0	-147.0	-79432.2
	6.8	1578.2	-5.6	-2127.2	-906.9	-91760.7
	7.4	1554.1	-4.1	-1980.6	-659.5	-87845.1
162.	-7.9	-77.5	3.1	-1283.0	3.3	41023.0
	-7.3	-101.6	4.6	-1136.4	3.9	41049.6
	0.5	-25.8	-0.1	-1596.6	7.5	40965.6
	1.1	-49.9	1.4	-1450.0	8.1	40992.1
	-12.0	-38.1	0.7	-1521.5	-0.2	40979.9
	-11.4	-62.2	2.2	-1374.9	0.4	41006.5
	-3.5	13.6	-2.5	-1835.1	4.1	40922.5
	-3.0	-10.5	-1.0	-1688.5	4.7	40949.0
	2.5	-28.8	0.0	-1575.1	-3.5	40968.7
	3.0	-52.9	1.6	-1428.5	-2.9	40995.2
	10.9	22.8	-3.1	-1888.7	0.8	40911.2
	11.5	-1.2	-1.6	-1742.1	1.4	40937.7
	-1.6	10.6	-2.4	-1813.6	-6.9	40925.6
	-1.0	-13.5	-0.9	-1667.0	-6.4	40952.1
	6.8	62.2	-5.6	-2127.2	-2.7	40868.1
	7.4	38.2	-4.1	-1980.6	-2.1	40894.6
323.	-7.9	-1593.4	3.1	-1283.0	-495.6	-94073.7
	-7.3	-1617.5	4.6	-1136.4	-741.9	-97936.2
	0.5	-1541.8	-0.1	-1596.6	18.9	-85775.7
	1.1	-1565.8	1.4	-1450.0	-227.3	-89638.2
	-12.0	-1554.0	0.7	-1521.5	-105.5	-87744.8
	-11.4	-1578.1	2.2	-1374.9	-351.7	-91607.3
	-3.5	-1502.4	-2.5	-1835.1	409.1	-79446.9
	-3.0	-1526.4	-1.0	-1688.5	162.9	-83309.3
	2.5	-1544.8	0.0	-1575.1	-6.2	-86257.0
	3.0	-1568.8	1.6	-1428.5	-252.5	-90119.5
	10.9	-1493.1	-3.1	-1888.7	508.3	-77959.1
	11.5	-1517.1	-1.6	-1742.1	262.1	-81821.6
	-1.6	-1505.4	-2.4	-1813.6	383.9	-79928.2
	-1.0	-1529.4	-0.9	-1667.0	137.7	-83790.7
	6.8	-1453.7	-5.6	-2127.2	898.5	-71630.2
	7.4	-1477.7	-4.1	-1980.6	652.3	-75492.7
Asta	282	nod1	167	166		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-8.6	1506.6	2.9	1904.7	464.7	-79750.7
	-7.6	1482.6	4.4	2043.3	707.7	-75892.1
	0.1	1558.3	-0.5	1604.8	-73.6	-88046.9

	1.0	1534.2	1.0	1743.4	169.3	-84188.4
	-11.2	1546.0	0.5	1680.1	84.4	-86070.9
	-10.3	1522.0	2.0	1818.7	327.4	-82212.3
	-2.6	1597.6	-2.8	1380.2	-454.0	-94367.1
	-1.6	1573.6	-1.3	1518.8	-211.0	-90508.6
	-0.5	1555.2	0.0	1631.7	-0.4	-87562.7
	0.5	1531.2	1.5	1770.3	242.6	-83704.2
	8.2	1606.8	-3.3	1331.8	-538.8	-95858.9
	9.1	1582.8	-1.8	1470.4	-295.8	-92000.4
	-3.2	1594.6	-2.3	1407.0	-380.7	-93882.9
	-2.2	1570.5	-0.8	1545.6	-137.7	-90024.4
	5.5	1646.2	-5.7	1107.1	-919.1	-102179.1
	6.5	1622.2	-4.2	1245.7	-676.1	-98320.6
162.	-8.6	-8.8	2.9	1904.7	-0.7	41310.4
	-7.6	-32.8	4.4	2043.3	-0.6	41288.5
	0.1	42.8	-0.5	1604.8	4.4	41357.0
	1.0	18.8	1.0	1743.4	4.6	41335.2
	-11.2	30.5	0.5	1680.1	-0.2	41346.2
	-10.3	6.5	2.0	1818.7	-0.1	41324.3
	-2.6	82.1	-2.8	1380.2	4.9	41392.8
	-1.6	58.1	-1.3	1518.8	5.1	41371.0
	-0.5	39.8	0.0	1631.7	-3.5	41353.3
	0.5	15.8	1.5	1770.3	-3.4	41331.4
	8.2	91.4	-3.3	1331.8	1.6	41399.9
	9.1	67.4	-1.8	1470.4	1.7	41378.0
	-3.2	79.1	-2.3	1407.0	-3.0	41389.1
	-2.2	55.1	-0.8	1545.6	-2.9	41367.2
	5.5	130.7	-5.7	1107.1	2.1	41435.7
	6.5	106.7	-4.2	1245.7	2.2	41413.8
323.	-8.6	-1524.3	2.9	1904.7	-464.4	-82604.1
	-7.6	-1548.3	4.4	2043.3	-707.1	-86506.3
	0.1	-1472.7	-0.5	1604.8	79.3	-74214.5
	1.0	-1496.7	1.0	1743.4	-163.4	-78116.8
	-11.2	-1485.0	0.5	1680.1	-83.1	-76212.3
	-10.3	-1509.0	2.0	1818.7	-325.8	-80114.5
	-2.6	-1433.4	-2.8	1380.2	460.7	-67822.7
	-1.6	-1457.4	-1.3	1518.8	217.9	-71725.0
	-0.5	-1475.7	0.0	1631.7	-3.5	-74706.3
	0.5	-1499.7	1.5	1770.3	-246.2	-78608.6
	8.2	-1424.1	-3.3	1331.8	540.3	-66316.8
	9.1	-1448.1	-1.8	1470.4	297.6	-70219.0
	-3.2	-1436.4	-2.3	1407.0	377.9	-68314.5
	-2.2	-1460.4	-0.8	1545.6	135.1	-72216.8
	5.5	-1384.8	-5.7	1107.1	921.6	-59925.0
	6.5	-1408.8	-4.2	1245.7	678.9	-63827.2
Asta	283	nod1	168	167		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.4	1542.1	3.1	36905.1	504.6	-82773.0
	0.1	1514.6	4.6	36941.7	755.4	-78085.7
	4.4	1601.3	-0.2	36825.3	-40.5	-92858.9
	4.9	1573.8	1.3	36861.9	210.3	-88171.5
	-2.6	1587.2	0.6	36845.9	99.3	-90447.6
	-2.1	1559.7	2.2	36882.5	350.2	-85760.3
	2.2	1646.3	-2.7	36766.1	-445.8	-100533.4
	2.7	1618.8	-1.2	36802.7	-194.9	-95846.1
	-2.7	1597.8	0.1	36837.9	14.3	-92256.5
	-2.2	1570.3	1.6	36874.5	265.2	-87569.2
	2.1	1656.9	-3.2	36758.1	-530.8	-102342.3
	2.6	1629.4	-1.7	36794.8	-279.9	-97655.0
	-4.9	1642.8	-2.4	36778.7	-390.9	-99931.1
	-4.4	1615.3	-0.9	36815.3	-140.1	-95243.8
	-0.1	1701.9	-5.7	36699.0	-936.1	-110016.9
	0.4	1674.4	-4.2	36735.6	-685.2	-105329.6
162.	-0.4	26.7	3.1	36905.1	2.0	44025.7
	0.1	-0.8	4.6	36941.7	4.5	44268.8
	4.4	85.8	-0.2	36825.3	-6.2	43502.3
	4.9	58.3	1.3	36861.9	-3.8	43745.4
	-2.6	71.7	0.6	36845.9	0.3	43627.7
	-2.1	44.2	2.2	36882.5	2.7	43870.8
	2.2	130.8	-2.7	36766.1	-8.0	43104.4
	2.7	103.3	-1.2	36802.7	-5.5	43347.5
	-2.7	82.3	0.1	36837.9	-1.4	43532.9
	-2.2	54.8	1.6	36874.5	1.1	43776.0
	2.1	141.4	-3.2	36758.1	-9.7	43009.6
	2.6	113.9	-1.7	36794.8	-7.2	43252.7
	-4.9	127.3	-2.4	36778.7	-3.1	43135.0
	-4.4	99.8	-0.9	36815.3	-0.7	43378.1
	-0.1	186.5	-5.7	36699.0	-11.4	42611.7
	0.4	159.0	-4.2	36735.6	-8.9	42854.8
323.	-0.4	-1488.8	3.1	36905.1	-501.4	-74151.2
	0.1	-1516.3	4.6	36941.7	-747.3	-78352.3
	4.4	-1429.6	-0.2	36825.3	28.6	-65112.0
	4.9	-1457.1	1.3	36861.9	-217.3	-69313.1
	-2.6	-1443.8	0.6	36845.9	-99.6	-67272.4
	-2.1	-1471.3	2.2	36882.5	-345.5	-71473.5
	2.2	-1384.6	-2.7	36766.1	430.4	-58233.3
	2.7	-1412.1	-1.2	36802.7	184.5	-62434.4
	-2.7	-1433.2	0.1	36837.9	-17.7	-65653.1
	-2.2	-1460.7	1.6	36874.5	-263.6	-69854.3
	2.1	-1374.0	-3.2	36758.1	512.3	-56614.0

	2.6	-1401.5	-1.7	36794.8	266.4	-60815.1
	-4.9	-1388.2	-2.4	36778.7	384.1	-58774.4
	-4.4	-1415.7	-0.9	36815.3	138.2	-62975.5
	-0.1	-1329.0	-5.7	36699.0	914.1	-49735.2
	0.4	-1356.5	-4.2	36735.6	668.2	-53936.4
Asta	284	nod	109	168		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-6.7	2131.8	4.0	33594.4	556.1	-186876.0
	-6.8	2098.7	5.9	34232.2	829.0	-182471.8
	-19.2	2203.4	-0.2	32222.4	-25.5	-196375.0
	-19.3	2170.3	1.8	32860.2	247.3	-191970.8
	-0.3	2185.8	0.7	32550.1	106.0	-194070.4
	-0.4	2152.7	2.7	33187.9	378.9	-189666.2
	-12.8	2257.5	-3.4	31178.1	-475.7	-203569.5
	-12.9	2224.3	-1.5	31815.9	-202.8	-199165.2
	4.1	2197.8	0.1	32331.9	10.3	-195718.9
	4.0	2164.7	2.0	32969.7	283.2	-191314.7
	-8.4	2269.5	-4.1	30959.9	-571.4	-205218.0
	-8.5	2236.3	-2.2	31597.7	-298.5	-200813.7
	10.4	2251.9	-3.2	31287.5	-439.8	-202913.3
	10.3	2218.7	-1.2	31925.4	-167.0	-198509.1
	-2.1	2323.5	-7.4	29915.6	-1021.5	-212412.4
	-2.2	2290.4	-5.4	30553.4	-748.6	-208008.2
168.	-6.7	348.6	4.0	33594.4	-110.8	20737.4
	-6.8	315.5	5.9	34232.2	-166.8	19589.5
	-19.2	420.3	-0.2	32222.4	10.1	23240.1
	-19.3	387.1	1.8	32860.2	-45.9	22092.2
	-0.3	402.7	0.7	32550.1	-18.7	22596.6
	-0.4	369.5	2.7	33187.9	-74.7	21448.7
	-12.8	474.3	-3.4	31178.1	102.1	25099.2
	-12.9	441.2	-1.5	31815.9	46.2	23951.3
	4.1	414.7	0.1	32331.9	0.1	22957.9
	4.0	381.5	2.0	32969.7	-55.8	21810.0
	-8.4	486.3	-4.1	30959.9	121.0	25460.5
	-8.5	453.2	-2.2	31597.7	65.0	24312.6
	10.4	468.7	-3.2	31287.5	92.2	24817.1
	10.3	435.6	-1.2	31925.4	36.2	23669.2
	-2.1	540.3	-7.4	29915.6	213.1	27319.7
	-2.2	507.2	-5.4	30553.4	157.1	26171.8
335.	-6.7	-1422.8	4.0	33594.4	-777.8	-69406.3
	-6.8	-1455.9	5.9	34232.2	-1162.6	-76106.3
	-19.2	-1351.2	-0.2	32222.4	45.6	-54902.4
	-19.3	-1384.3	1.8	32860.2	-339.2	-61602.4
	-0.3	-1368.8	0.7	32550.1	-143.5	-58493.5
	-0.4	-1401.9	2.7	33187.9	-528.3	-65193.6
	-12.8	-1297.1	-3.4	31178.1	679.9	-43989.6
	-12.9	-1330.3	-1.5	31815.9	295.1	-50689.7
	4.1	-1356.8	0.1	32331.9	-10.0	-56123.3
	4.0	-1389.9	2.0	32969.7	-394.8	-62823.3
	-8.4	-1285.1	-4.1	30959.9	813.4	-41619.3
	-8.5	-1318.3	-2.2	31597.7	428.6	-48319.4
	10.4	-1302.7	-3.2	31287.5	624.3	-45210.5
	10.3	-1335.9	-1.2	31925.4	239.5	-51910.5
	-2.1	-1231.1	-7.4	29915.6	1447.7	-30706.6
	-2.2	-1264.2	-5.4	30553.4	1062.9	-37406.6
Asta	285	nod	110	109		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-8.7	2756.8	2.2	-7453.6	396.1	-161766.2
	-8.4	2733.3	3.3	-6785.9	600.9	-158290.8
	-12.0	2807.5	-0.3	-8898.1	-51.1	-169243.9
	-11.6	2784.0	0.8	-8230.4	153.7	-165768.5
	-7.5	2795.4	0.4	-8541.1	69.4	-167458.0
	-7.2	2771.9	1.5	-7873.4	274.2	-163982.6
	-10.8	2846.1	-2.1	-9985.6	-377.7	-174935.7
	-10.4	2822.6	-1.0	-9317.9	-172.9	-171460.2
	3.3	2804.9	0.1	-8770.3	13.6	-168854.4
	3.7	2781.3	1.2	-8102.6	218.4	-165379.0
	0.1	2855.6	-2.4	-10214.8	-433.6	-176332.1
	0.4	2832.0	-1.3	-9547.1	-228.7	-172856.6
	4.5	2843.5	-1.7	-9857.8	-313.1	-174546.2
	4.9	2819.9	-0.6	-9190.1	-108.3	-171070.7
	1.3	2894.2	-4.2	-11302.3	-760.2	-182023.8
	1.6	2870.6	-3.1	-10634.6	-555.4	-178548.4
155.	-8.7	276.2	2.2	-7453.6	61.3	81894.4
	-8.4	252.6	3.3	-6785.9	90.8	81716.7
	-12.0	326.9	-0.3	-8898.1	-0.7	82277.0
	-11.6	303.3	0.8	-8230.4	28.7	82099.3
	-7.5	314.8	0.4	-8541.1	11.8	82184.9
	-7.2	291.2	1.5	-7873.4	41.2	82007.2
	-10.8	365.5	-2.1	-9985.6	-50.3	82567.6
	-10.4	341.9	-1.0	-9317.9	-20.9	82389.9
	3.3	324.2	0.1	-8770.3	0.2	82253.8
	3.7	300.7	1.2	-8102.6	29.6	82076.1
	0.1	375.0	-2.4	-10214.8	-61.9	82636.4
	0.4	351.4	-1.3	-9547.1	-32.5	82458.7
	4.5	362.8	-1.7	-9857.8	-49.4	82544.3
	4.9	339.3	-0.6	-9190.1	-20.0	82366.6
	1.3	413.6	-4.2	-11302.3	-111.5	82926.9
	1.6	390.0	-3.1	-10634.6	-82.1	82749.3

310.	-8.7	-2870.3	2.2	-7453.6	-273.6	-110548.2
	-8.4	-2893.9	3.3	-6785.9	-419.6	-114379.0
	-12.0	-2819.6	-0.3	-8898.1	49.7	-102305.3
	-11.6	-2843.2	0.8	-8230.4	-96.3	-106136.1
	-7.5	-2831.7	0.4	-8541.1	-46.1	-104275.4
	-7.2	-2855.3	1.5	-7873.4	-192.1	-108106.2
	-10.8	-2781.0	-2.1	-9985.6	277.2	-96032.5
	-10.4	-2804.6	-1.0	-9317.9	131.2	-99863.3
	3.3	-2822.3	0.1	-8770.3	-13.3	-102741.3
	3.7	-2845.8	1.2	-8102.6	-159.3	-106572.1
	0.1	-2771.5	-2.4	-10214.8	310.0	-94498.4
	0.4	-2795.1	-1.3	-9547.1	164.0	-98329.2
	4.5	-2783.7	-1.7	-9857.8	214.2	-96468.5
	4.9	-2807.2	-0.6	-9190.1	68.2	-100299.3
	1.3	-2733.0	-4.2	-11302.3	537.5	-88225.6
	1.6	-2756.5	-3.1	-10634.6	391.5	-92056.4
Asta PROGR. 0.	286	nod1	111	110	MYT	MZZ
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-4.2	2347.4	1.9	16735.2	231.7	-138761.7
	-4.0	2324.6	2.9	16452.1	350.0	-135005.9
	-7.2	2396.4	-0.2	17351.2	-26.9	-146852.3
	-7.1	2373.7	0.8	17068.2	91.4	-143096.6
	-2.6	2384.7	0.4	17193.8	43.3	-144905.0
	-2.4	2361.9	1.3	16910.8	161.6	-141149.2
	-5.6	2433.7	-1.8	17809.8	-215.3	-152995.6
	-5.5	2411.0	-0.8	17526.8	-97.0	-149239.9
	3.2	2393.6	0.1	17280.0	11.0	-146352.1
	3.4	2370.8	1.1	16997.0	129.2	-142596.4
	0.2	2442.6	-2.0	17896.0	-247.7	-154442.7
	0.3	2419.8	-1.1	17613.0	-129.4	-150687.0
	4.8	2430.9	-1.5	17738.7	-177.5	-152495.4
	5.0	2408.1	-0.5	17455.6	-59.2	-148739.7
	1.8	2479.9	-3.6	18354.7	-436.1	-160586.0
	1.9	2457.1	-2.6	18071.6	-317.8	-156830.3
157.	-4.2	133.9	1.9	16735.2	-72.4	68815.7
	-4.0	111.1	2.9	16452.1	-107.8	68990.4
	-7.2	183.0	-0.2	17351.2	2.8	68436.0
	-7.1	160.2	0.8	17068.2	-32.6	68610.7
	-2.6	171.2	0.4	17193.8	-13.2	68532.4
	-2.4	148.4	1.3	16910.8	-48.6	68707.1
	-5.6	220.3	-1.8	17809.8	62.0	68152.7
	-5.5	197.5	-0.8	17526.8	26.6	68327.4
	3.2	180.1	0.1	17280.0	-0.9	68482.3
	3.4	157.3	1.1	16997.0	-36.3	68657.0
	0.2	229.2	-2.0	17896.0	74.3	68102.7
	0.3	206.4	-1.1	17613.0	38.9	68277.4
	4.8	217.4	-1.5	17738.7	58.3	68199.0
	5.0	194.6	-0.5	17455.6	22.9	68373.7
	1.8	266.5	-3.6	18354.7	133.5	67819.3
	1.9	243.7	-2.6	18071.6	98.1	67994.0
314.	-4.2	-3047.5	1.9	16735.2	-376.4	-147370.2
	-4.0	-3070.2	2.9	16452.1	-565.6	-150776.6
	-7.2	-2998.4	-0.2	17351.2	32.4	-140038.8
	-7.1	-3021.2	0.8	17068.2	-156.7	-143445.2
	-2.6	-3010.2	0.4	17193.8	-69.6	-141793.5
	-2.4	-3032.9	1.3	16910.8	-258.7	-145199.9
	-5.6	-2961.1	-1.8	17809.8	339.3	-134462.2
	-5.5	-2983.9	-0.8	17526.8	150.2	-137868.5
	3.2	-3001.3	0.1	17280.0	-12.7	-140445.9
	3.4	-3024.1	1.1	16997.0	-201.8	-143852.3
	0.2	-2952.2	-2.0	17896.0	396.2	-133114.5
	0.3	-2975.0	-1.1	17613.0	207.0	-136520.9
	4.8	-2964.0	-1.5	17738.7	294.2	-134869.3
	5.0	-2986.8	-0.5	17455.6	105.0	-138275.6
	1.8	-2914.9	-3.6	18354.7	703.0	-127537.9
	1.9	-2937.7	-2.6	18071.6	513.9	-130944.2
Asta PROGR. 0.	287	nod1	111	156	MYT	MZZ
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-11.8	2183.9	2.3	542.3	396.5	-11446.4
	-12.2	2177.5	3.5	4217.3	603.1	-15723.1
	-22.3	2198.4	-0.3	-7390.5	-52.9	-2331.2
	-22.7	2191.9	0.9	-3715.5	153.7	-6608.0
	-3.9	2194.2	0.4	-5455.0	70.3	-4377.2
	-4.3	2187.7	1.6	-1780.0	276.9	-8653.9
	-14.4	2208.6	-2.2	-13387.7	-379.1	4738.0
	-14.8	2202.1	-1.0	-9712.7	-172.5	461.3
	6.0	2194.2	0.1	-6721.1	15.3	-2171.7
	5.5	2187.7	1.3	-3046.1	221.9	-6448.4
	-4.5	2208.6	-2.5	-14653.8	-434.1	6943.5
	-4.9	2202.1	-1.3	-10978.8	-227.6	2666.7
	13.9	2204.4	-1.8	-12718.4	-310.9	4897.5
	13.4	2197.9	-0.6	-9043.4	-104.3	620.8
	3.4	2218.8	-4.4	-20651.1	-760.3	14012.7
	3.0	2212.4	-3.2	-16976.1	-553.7	9736.0
214.	-11.8	-630.8	2.3	542.3	-98.8	155123.1
	-12.2	-637.3	3.5	4217.3	-147.9	149458.2
	-22.3	-616.4	-0.3	-7390.5	6.4	167327.4
	-22.7	-622.8	0.9	-3715.5	-42.8	161662.6
	-3.9	-620.6	0.4	-5455.0	-18.9	164386.3

	-4.3	-627.0	1.6	-1780.0	-68.1	158721.5
	-14.4	-606.1	-2.2	-13387.7	86.2	176590.7
	-14.8	-612.6	-1.0	-9712.7	37.1	170925.8
	6.0	-620.5	0.1	-6721.1	-2.7	166541.1
	5.5	-627.0	1.3	-3046.1	-51.8	160876.3
	-4.5	-606.1	-2.5	-14653.8	102.5	178745.5
	-4.9	-612.6	-1.3	-10978.8	53.3	173080.6
	13.9	-610.3	-1.8	-12718.4	77.2	175804.4
	13.4	-616.8	-0.6	-9043.4	28.1	170139.6
	3.4	-595.9	-4.4	-20651.1	182.4	188008.8
	3.0	-602.3	-3.2	-16976.1	133.2	182343.9
429.	-11.8	-3445.5	2.3	542.3	-594.0	-281944.4
	-12.2	-3452.0	3.5	4217.3	-898.9	-288997.4
	-22.3	-3431.1	-0.3	-7390.5	65.7	-266648.7
	-22.7	-3437.5	0.9	-3715.5	-239.3	-273701.7
	-3.9	-3435.3	0.4	-5455.0	-108.1	-270487.1
	-4.3	-3441.7	1.6	-1780.0	-413.0	-277540.1
	-14.4	-3420.8	-2.2	-13387.7	551.5	-255191.4
	-14.8	-3427.3	-1.0	-9712.7	246.6	-262244.4
	6.0	-3435.2	0.1	-6721.1	-20.5	-268365.3
	5.5	-3441.7	1.3	-3046.1	-325.5	-275418.3
	-4.5	-3420.8	-2.5	-14653.8	639.1	-253069.6
	-4.9	-3427.3	-1.3	-10978.8	334.1	-260122.6
	13.9	-3425.0	-1.8	-12718.4	465.3	-256908.0
	13.4	-3431.5	-0.6	-9043.4	160.4	-263961.0
	3.4	-3410.6	-4.4	-20651.1	1124.9	-241612.3
	3.0	-3417.1	-3.2	-16976.1	820.0	-248665.3
Asta	288	nod1	122	156		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-7.9	1807.4	3.5	742.4	486.5	-78276.3
	-7.2	1809.7	5.2	-944.1	703.9	-83338.9
	-12.1	1801.9	-0.1	4381.1	11.3	-67213.2
	-11.4	1804.1	1.6	2694.7	228.6	-72275.9
	-4.6	1804.2	0.7	3496.2	106.6	-70115.5
	-3.9	1806.5	2.4	1809.7	324.0	-75178.1
	-8.8	1798.7	-2.9	7134.9	-368.7	-59052.4
	-8.1	1800.9	-1.2	5448.5	-151.3	-64115.1
	4.8	1804.9	0.0	4137.1	-14.3	-68935.7
	5.5	1807.2	1.6	2450.7	203.1	-73998.4
	0.6	1799.4	-3.6	7775.9	-489.5	-57872.7
	1.3	1801.6	-2.0	6089.4	-272.2	-62935.3
	8.0	1801.7	-2.9	6891.0	-394.2	-60774.9
	8.7	1804.0	-1.2	5204.5	-176.8	-65837.6
	3.9	1796.2	-6.4	10529.7	-869.4	-49711.9
	4.6	1798.4	-4.8	8843.2	-652.1	-54774.5
173.	-7.9	-462.5	3.5	742.4	-126.2	37924.5
	-7.2	-460.3	5.2	-944.1	-195.7	33251.2
	-12.1	-468.1	-0.1	4381.1	19.1	48039.4
	-11.4	-465.8	1.6	2694.7	-50.4	43366.1
	-4.6	-465.7	0.7	3496.2	-18.0	45530.6
	-3.9	-463.5	2.4	1809.7	-87.5	40857.3
	-8.8	-471.3	-2.9	7134.9	127.3	55645.5
	-8.1	-469.0	-1.2	5448.5	57.8	50972.2
	4.8	-465.0	0.0	4137.1	-7.6	47024.1
	5.5	-462.8	1.6	2450.7	-77.1	42350.8
	0.6	-470.6	-3.6	7775.9	137.7	57139.0
	1.3	-468.3	-2.0	6089.4	68.2	52465.7
	8.0	-468.2	-2.9	6891.0	100.6	54630.2
	8.7	-466.0	-1.2	5204.5	31.1	49956.9
	3.9	-473.8	-6.4	10529.7	246.0	64745.1
	4.6	-471.5	-4.8	8843.2	176.5	60071.8
346.	-7.9	-2732.5	3.5	742.4	-736.7	-238472.6
	-7.2	-2730.2	5.2	-944.1	-1093.1	-242756.6
	-12.1	-2738.0	-0.1	4381.1	28.6	-229303.3
	-11.4	-2735.8	1.6	2694.7	-327.7	-233587.3
	-4.6	-2735.7	0.7	3496.2	-140.3	-231421.2
	-3.9	-2733.4	2.4	1809.7	-496.7	-235705.1
	-8.8	-2741.2	-2.9	7134.9	625.0	-222251.8
	-8.1	-2739.0	-1.2	5448.5	268.6	-226535.8
	4.8	-2735.0	0.0	4137.1	-2.6	-229599.4
	5.5	-2732.7	1.6	2450.7	-359.0	-233883.4
	0.6	-2740.5	-3.6	7775.9	762.7	-220430.1
	1.3	-2738.3	-2.0	6089.4	406.3	-224714.1
	8.0	-2738.2	-2.9	6891.0	593.8	-222547.9
	8.7	-2735.9	-1.2	5204.5	237.4	-226831.9
	3.9	-2743.7	-6.4	10529.7	1359.1	-213378.6
	4.6	-2741.5	-4.8	8843.2	1002.7	-217662.6
Asta	289	nod1	122	154		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.1	-560.4	12.7	-618.8	361.2	19751.7
	0.0	-662.2	19.3	175.7	552.2	23388.7
	1.3	-339.9	-1.3	-2322.6	-47.0	11883.6
	1.2	-441.7	5.2	-1528.1	143.9	15520.6
	-0.2	-394.8	2.2	-1922.9	59.4	13828.4
	-0.3	-496.6	8.8	-1128.4	250.3	17465.3
	0.9	-174.3	-11.9	-3626.8	-348.9	5960.3
	0.8	-276.1	-5.3	-2832.3	-157.9	9597.2
	-1.1	-362.4	0.3	-2235.0	12.9	12626.6
	-1.2	-464.2	6.9	-1440.5	203.8	16263.5

	0.1	-141.9	-13.7	-3938.9	-395.4	4758.5
	0.0	-243.7	-7.1	-3144.4	-204.4	8395.4
	-1.4	-196.8	-10.2	-3539.1	-289.0	6703.2
	-1.5	-298.6	-3.6	-2744.6	-98.0	10340.2
	-0.3	23.7	-24.3	-5243.0	-697.3	-1164.9
	-0.4	-78.1	-17.7	-4448.5	-506.3	2472.1
40.	0.1	-634.9	12.7	-618.8	-144.8	-3998.5
	0.0	-736.7	19.3	175.7	-215.1	-4406.8
	1.3	-414.4	-1.3	-2322.6	6.0	-3105.3
	1.2	-516.2	5.2	-1528.1	-64.3	-3513.6
	-0.2	-469.3	2.2	-1922.9	-27.5	-3341.4
	-0.3	-571.1	8.8	-1128.4	-97.8	-3749.7
	0.9	-248.8	-11.9	-3626.8	123.2	-2448.2
	0.8	-350.6	-5.3	-2832.3	52.9	-2856.5
	-1.1	-436.9	0.3	-2235.0	-0.8	-3254.1
	-1.2	-538.7	6.9	-1440.5	-71.1	-3662.4
	0.1	-216.4	-13.7	-3938.9	150.0	-2360.9
	0.0	-318.2	-7.1	-3144.4	79.6	-2769.2
	-1.4	-271.3	-10.2	-3539.1	116.5	-2597.0
	-1.5	-373.1	-3.6	-2744.6	46.2	-3005.2
	-0.3	-50.8	-24.3	-5243.0	267.2	-1703.8
	-0.4	-152.6	-17.7	-4448.5	196.9	-2112.0
79.	0.1	-709.4	12.7	-618.8	-650.6	-30708.9
	0.0	-811.2	19.3	175.7	-982.2	-35162.4
	1.3	-488.9	-1.3	-2322.6	59.2	-21054.6
	1.2	-590.7	5.2	-1528.1	-272.4	-25508.1
	-0.2	-543.8	2.2	-1922.9	-114.2	-23471.2
	-0.3	-645.6	8.8	-1128.4	-445.8	-27924.7
	0.9	-323.3	-11.9	-3626.8	595.6	-13817.0
	0.8	-425.1	-5.3	-2832.3	264.0	-18270.5
	-1.1	-511.4	0.3	-2235.0	-14.6	-22096.7
	-1.2	-613.2	6.9	-1440.5	-346.2	-26550.2
	0.1	-290.9	-13.7	-3938.9	695.1	-12442.4
	0.0	-392.7	-7.1	-3144.4	363.5	-16895.9
	-1.4	-345.8	-10.2	-3539.1	521.8	-14859.0
	-1.5	-447.6	-3.6	-2744.6	190.2	-19312.5
	-0.3	-125.3	-24.3	-5243.0	1231.5	-5204.7
	-0.4	-227.1	-17.7	-4448.5	899.9	-9658.2
Asta	301	nod1	129	145		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.2	3329.7	2.7	9037.0	434.3	-196237.3
	-1.2	3276.6	4.0	9373.6	650.8	-186223.4
	-1.5	3444.3	-0.2	8312.4	-31.3	-217846.0
	-1.5	3391.2	1.1	8649.1	185.1	-207832.0
	-0.8	3416.4	0.5	8485.8	80.4	-212583.5
	-0.8	3363.3	1.8	8822.5	296.8	-202569.5
	-1.1	3530.9	-2.4	7761.3	-385.2	-234192.1
	-1.1	3477.8	-1.0	8098.0	-168.8	-224178.2
	-2.2	3434.3	0.1	8367.3	11.4	-215964.4
	-2.2	3381.2	1.4	8703.9	227.9	-205950.4
	-2.5	3548.8	-2.8	7642.7	-454.2	-237573.0
	-2.5	3495.7	-1.5	7979.4	-237.8	-227559.1
	-1.8	3520.9	-2.1	7816.1	-342.5	-232310.5
	-1.9	3467.8	-0.8	8152.8	-126.1	-222296.6
	-2.1	3635.5	-5.0	7091.6	-808.2	-253919.1
	-2.2	3582.4	-3.6	7428.2	-591.7	-243905.2
195.	-1.2	-50.7	2.7	9037.0	-82.9	122009.3
	-1.2	-103.8	4.0	9373.6	-124.2	121693.4
	-1.5	63.9	-0.2	8312.4	5.8	122691.3
	-1.5	10.8	1.1	8649.1	-35.4	122375.4
	-0.8	36.0	0.5	8485.8	-15.4	122524.7
	-0.8	-17.1	1.8	8822.5	-56.6	122208.7
	-1.1	150.5	-2.4	7761.3	73.4	123206.7
	-1.1	97.4	-1.0	8098.0	32.2	122890.8
	-2.2	53.9	0.1	8367.3	-1.3	122629.2
	-2.2	0.8	1.4	8703.9	-42.5	122313.3
	-2.5	168.5	-2.8	7642.7	87.5	123311.3
	-2.5	115.4	-1.5	7979.4	46.2	122995.3
	-1.8	140.6	-2.1	7816.1	66.3	123144.6
	-1.9	87.5	-0.8	8152.8	25.0	122828.6
	-2.1	255.1	-5.0	7091.6	155.1	123826.6
	-2.2	202.0	-3.6	7428.2	113.8	123510.7
389.	-1.2	-3386.7	2.7	9037.0	-600.2	-213084.4
	-1.2	-3439.8	4.0	9373.6	-899.1	-223730.2
	-1.5	-3272.1	-0.2	8312.4	42.9	-190111.7
	-1.5	-3325.2	1.1	8649.1	-255.9	-200757.5
	-0.8	-3300.0	0.5	8485.8	-111.1	-195707.5
	-0.8	-3353.1	1.8	8822.5	-410.0	-206353.3
	-1.1	-3185.4	-2.4	7761.3	532.1	-172734.8
	-1.1	-3238.5	-1.0	8098.0	233.2	-183380.6
	-2.2	-3282.1	0.1	8367.3	-14.1	-192117.6
	-2.2	-3335.2	1.4	8703.9	-312.9	-202763.4
	-2.5	-3167.5	-2.8	7642.7	629.1	-169144.8
	-2.5	-3220.6	-1.5	7979.4	330.2	-179790.6
	-1.8	-3195.4	-2.1	7816.1	475.1	-174740.7
	-1.9	-3248.5	-0.8	8152.8	176.2	-185386.5
	-2.1	-3080.8	-5.0	7091.6	1118.3	-151767.9
	-2.2	-3133.9	-3.6	7428.2	819.4	-162413.7
Asta	302	nod1	141	129		

PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.3	2806.1	1.5	-5755.5	428.8	-188269.4
	-1.3	2769.6	2.3	-5432.7	641.8	-178893.2
	-1.3	2884.7	-0.1	-6451.4	-30.0	-208488.6
	-1.3	2848.3	0.6	-6128.7	183.1	-199112.4
	-1.6	2865.7	0.3	-6283.0	79.4	-203586.2
	-1.6	2829.2	1.0	-5960.2	292.5	-194210.0
	-1.5	2944.3	-1.3	-6978.9	-379.3	-223805.3
	-1.5	2907.8	-0.6	-6656.2	-166.3	-214429.1
	-1.0	2878.4	0.0	-6387.2	7.9	-206859.1
	-1.0	2841.9	0.8	-6064.4	221.0	-197482.9
	-1.0	2957.0	-1.6	-7083.2	-450.8	-227078.3
	-1.0	2920.6	-0.8	-6760.4	-237.8	-217702.0
	-1.3	2938.0	-1.2	-6914.7	-341.4	-222175.9
	-1.3	2901.5	-0.5	-6592.0	-128.4	-212799.6
	-1.3	3016.6	-2.8	-7610.7	-800.2	-242395.0
	-1.3	2980.1	-2.1	-7287.9	-587.1	-233018.8
248.	-1.3	-187.8	1.5	-5755.5	53.6	119406.2
	-1.3	-224.3	2.3	-5432.7	80.4	119739.7
	-1.3	-109.2	-0.1	-6451.4	-4.0	118687.0
	-1.3	-145.7	0.6	-6128.7	22.7	119020.5
	-1.6	-128.3	0.3	-6283.0	9.9	118861.5
	-1.6	-164.7	1.0	-5960.2	36.7	119195.0
	-1.5	-49.6	-1.3	-6978.9	-47.7	118142.2
	-1.5	-86.1	-0.6	-6656.2	-21.0	118475.7
	-1.0	-115.5	0.0	-6387.2	1.4	118744.6
	-1.0	-152.0	0.8	-6064.4	28.2	119078.1
	-1.0	-36.9	-1.6	-7083.2	-56.2	118025.4
	-1.0	-73.4	-0.8	-6760.4	-29.4	118358.9
	-1.3	-56.0	-1.2	-6914.7	-42.3	118199.9
	-1.3	-92.4	-0.5	-6592.0	-15.5	118533.4
	-1.3	22.6	-2.8	-7610.7	-99.9	117480.7
	-1.3	-13.8	-2.1	-7287.9	-73.1	117814.2
496.	-1.3	-2358.7	1.5	-5755.5	-321.6	-213393.8
	-1.3	-2395.2	2.3	-5432.7	-481.1	-222103.0
	-1.3	-2280.1	-0.1	-6451.4	21.9	-194613.1
	-1.3	-2316.6	0.6	-6128.7	-137.6	-203322.3
	-1.6	-2299.2	0.3	-6283.0	-59.6	-199166.5
	-1.6	-2335.6	1.0	-5960.2	-219.1	-207875.7
	-1.5	-2220.5	-1.3	-6978.9	283.8	-180385.8
	-1.5	-2257.0	-0.6	-6656.2	124.4	-189095.0
	-1.0	-2286.4	0.0	-6387.2	-5.1	-196127.3
	-1.0	-2322.9	0.8	-6064.4	-164.5	-204836.5
	-1.0	-2207.8	-1.6	-7083.2	338.4	-177346.6
	-1.0	-2244.3	-0.8	-6760.4	178.9	-186055.8
	-1.3	-2226.9	-1.2	-6914.7	256.9	-181900.0
	-1.3	-2263.3	-0.5	-6592.0	97.4	-190609.2
	-1.3	-2148.3	-2.8	-7610.7	600.4	-163119.3
	-1.3	-2184.7	-2.1	-7287.9	440.9	-171828.5
Asta	303	nod	136	141		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.8	415.3	1.9	5060.7	440.0	-21187.0
	-1.6	395.8	2.8	5425.8	659.3	-16384.4
	-2.3	457.5	-0.1	4274.1	-32.2	-31561.1
	-2.1	438.0	0.8	4639.2	187.1	-26758.5
	-1.1	447.1	0.3	4463.5	81.8	-29019.0
	-1.0	427.6	1.3	4828.6	301.0	-24216.4
	-1.6	489.3	-1.6	3677.0	-390.5	-39393.1
	-1.4	469.8	-0.7	4042.1	-171.2	-34590.5
	1.1	453.2	0.0	4338.6	8.4	-30498.1
	1.3	433.6	1.0	4703.7	227.7	-25695.5
	0.7	495.3	-2.0	3552.1	-463.8	-40872.2
	0.9	475.8	-1.0	3917.2	-244.5	-36069.6
	1.8	485.0	-1.5	3741.5	-349.8	-38330.1
	2.0	465.5	-0.5	4106.6	-130.6	-33527.5
	1.3	527.2	-3.5	2954.9	-822.1	-48704.2
	1.5	507.6	-2.5	3320.0	-602.8	-43901.6
250.	-1.8	-53.4	1.9	5060.7	-22.6	24048.1
	-1.6	-73.0	2.8	5425.8	-33.8	23970.3
	-2.3	-11.3	-0.1	4274.1	1.4	24215.9
	-2.1	-30.8	0.8	4639.2	-9.7	24138.2
	-1.1	-21.6	0.3	4463.5	-4.2	24174.6
	-1.0	-41.1	1.3	4828.6	-15.4	24096.9
	-1.6	20.6	-1.6	3677.0	19.8	24342.4
	-1.4	1.1	-0.7	4042.1	8.7	24264.7
	1.1	-15.6	0.0	4338.6	-0.3	24199.5
	1.3	-35.1	1.0	4703.7	-11.5	24121.8
	0.7	26.6	-2.0	3552.1	23.8	24367.3
	0.9	7.1	-1.0	3917.2	12.6	24289.6
	1.8	16.3	-1.5	3741.5	18.1	24326.1
	2.0	-3.3	-0.5	4106.6	6.9	24248.4
	1.3	58.4	-3.5	2954.9	42.2	24493.9
	1.5	38.9	-2.5	3320.0	31.0	24416.2
500.	-1.8	-522.2	1.9	5060.7	-485.3	-47902.2
	-1.6	-541.7	2.8	5425.8	-727.0	-52860.2
	-2.3	-480.0	-0.1	4274.1	35.1	-37192.5
	-2.1	-499.5	0.8	4639.2	-206.6	-42150.5
	-1.1	-490.3	0.3	4463.5	-90.2	-39817.0
	-1.0	-509.9	1.3	4828.6	-331.9	-44775.0
	-1.6	-448.2	-1.6	3677.0	430.2	-29107.3

	-1.4	-467.7	-0.7	4042.1	188.5	-34065.3
	1.1	-484.3	0.0	4338.6	-9.1	-38288.1
	1.3	-503.8	1.0	4703.7	-250.8	-43246.1
	0.7	-442.2	-2.0	3552.1	511.3	-27578.4
	0.9	-461.7	-1.0	3917.2	269.6	-32536.4
	1.8	-452.5	-1.5	3741.5	386.0	-30202.9
	2.0	-472.0	-0.5	4106.6	144.3	-35160.9
	1.3	-410.3	-3.5	2954.9	906.4	-19493.2
	1.5	-429.8	-2.5	3320.0	664.7	-24451.2
Asta	304	nodl	136	137		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	1817.4	3.2	1509.7	525.4	-68450.8
	0.0	1752.1	4.7	3079.6	786.2	-58911.3
	0.2	1958.2	-0.2	-1880.0	-36.2	-89024.9
	0.1	1892.9	1.4	-310.1	224.7	-79485.3
	-0.6	1924.0	0.6	-1051.6	97.5	-84030.8
	-0.6	1858.7	2.1	518.3	358.3	-74491.3
	-0.5	2064.8	-2.8	-4441.3	-464.1	-104604.9
	-0.5	1999.5	-1.2	-2871.5	-203.2	-95065.3
	-0.7	1947.4	0.1	-1552.9	9.3	-87435.2
	-0.7	1882.1	1.6	17.0	270.1	-77895.7
	-0.6	2088.2	-3.3	-4942.6	-552.3	-108009.3
	-0.6	2022.9	-1.7	-3372.7	-291.4	-98469.7
	-1.3	2054.0	-2.5	-4114.2	-418.6	-103015.2
	-1.4	1988.7	-0.9	-2544.3	-157.8	-93475.6
	-1.2	2194.8	-5.9	-7503.9	-980.2	-123589.2
	-1.2	2129.5	-4.3	-5934.0	-719.3	-114049.7
132.	0.0	-6.7	3.2	1509.7	107.8	55550.5
	0.0	-72.0	4.7	3079.6	161.6	56439.2
	0.2	134.1	-0.2	-1880.0	-7.9	53633.6
	0.1	68.8	1.4	-310.1	45.8	54522.3
	-0.6	100.0	0.6	-1051.6	20.1	54099.3
	-0.6	34.7	2.1	518.3	73.9	54988.0
	-0.5	240.8	-2.8	-4441.3	-95.6	52182.4
	-0.5	175.5	-1.2	-2871.5	-41.9	53071.1
	-0.7	123.3	0.1	-1552.9	1.8	53788.4
	-0.7	58.0	1.6	17.0	55.5	54677.1
	-0.6	264.1	-3.3	-4942.6	-114.0	51871.5
	-0.6	198.8	-1.7	-3372.7	-60.3	52760.2
	-1.3	230.0	-2.5	-4114.2	-85.9	52337.2
	-1.4	164.7	-0.9	-2544.3	-32.2	53225.9
	-1.2	370.8	-5.9	-7503.9	-201.7	50420.3
	-1.2	305.5	-4.3	-5934.0	-148.0	51309.0
265.	0.0	-2199.0	3.2	1509.7	-309.7	-86487.8
	0.0	-2264.3	4.7	3079.6	-463.1	-94250.0
	0.2	-2058.2	-0.2	-1880.0	20.3	-69747.5
	0.1	-2123.5	1.4	-310.1	-133.1	-77509.7
	-0.6	-2092.4	0.6	-1051.6	-57.2	-73810.2
	-0.6	-2157.7	2.1	518.3	-210.6	-81572.4
	-0.5	-1951.6	-2.8	-4441.3	272.8	-57070.0
	-0.5	-2016.9	-1.2	-2871.5	119.4	-64832.1
	-0.7	-2069.0	0.1	-1552.9	-5.7	-71027.6
	-0.7	-2134.3	1.6	17.0	-159.1	-78789.8
	-0.6	-1928.2	-3.3	-4942.6	324.3	-54287.4
	-0.6	-1993.5	-1.7	-3372.7	170.9	-62049.5
	-1.3	-1962.4	-2.5	-4114.2	246.8	-58350.1
	-1.4	-2027.7	-0.9	-2544.3	93.4	-66112.2
	-1.2	-1821.6	-5.9	-7503.9	576.8	-41609.8
	-1.2	-1886.9	-4.3	-5934.0	423.4	-49371.9
Asta	305	nodl	137	144		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.3	1473.3	1.7	6159.7	162.6	-64602.9
	0.0	1407.6	2.5	5474.1	244.1	-57535.0
	0.9	1615.0	-0.1	7642.2	-12.8	-79848.1
	0.6	1549.3	0.7	6956.6	68.7	-72780.2
	0.4	1580.5	0.3	7276.3	29.1	-76145.0
	0.2	1514.8	1.2	6590.7	110.6	-69077.1
	1.0	1722.3	-1.5	8758.8	-146.3	-91390.2
	0.8	1656.6	-0.7	8073.2	-64.8	-84322.3
	-2.8	1603.9	0.1	7482.8	11.8	-78659.5
	-3.0	1538.2	1.0	6797.2	93.3	-71591.6
	-2.2	1745.6	-1.7	8965.3	-163.6	-93904.6
	-2.4	1679.9	-0.9	8279.7	-82.1	-86836.7
	-2.6	1711.2	-1.3	8599.4	-121.7	-90201.6
	-2.9	1645.5	-0.4	7913.8	-40.2	-83133.7
	-2.0	1852.9	-3.1	10081.9	-297.0	-105446.7
	-2.3	1787.2	-2.3	9396.3	-215.5	-98378.9
108.	0.3	176.7	1.7	6159.7	-20.0	23517.3
	0.0	111.0	2.5	5474.1	-30.1	23521.4
	0.9	318.4	-0.1	7642.2	1.6	23508.1
	0.6	252.7	0.7	6956.6	-8.5	23512.2
	0.4	284.0	0.3	7276.3	-3.3	23510.9
	0.2	218.3	1.2	6590.7	-13.3	23515.0
	1.0	425.7	-1.5	8758.8	18.3	23501.8
	0.8	360.0	-0.7	8073.2	8.3	23505.9
	-2.8	307.3	0.1	7482.8	-0.9	23508.5
	-3.0	241.6	1.0	6797.2	-11.0	23512.6
	-2.2	449.1	-1.7	8965.3	20.7	23499.4
	-2.4	383.4	-0.9	8279.7	10.6	23503.5

	-2.6	414.6	-1.3	8599.4	15.8	23502.2
	-2.9	348.9	-0.4	7913.8	5.7	23506.3
	-2.0	556.3	-3.1	10081.9	37.4	23493.0
	-2.3	490.6	-2.3	9396.3	27.3	23497.1
215.	0.3	-1055.5	1.7	6159.7	-202.6	-24303.4
	0.0	-1121.2	2.5	5474.1	-304.2	-31363.2
	0.9	-913.8	-0.1	7642.2	16.0	-9076.6
	0.6	-979.5	0.7	6956.6	-85.6	-16136.3
	0.4	-948.2	0.3	7276.3	-35.6	-12774.0
	0.2	-1013.9	1.2	6590.7	-137.3	-19833.7
	1.0	-806.5	-1.5	8758.8	183.0	2452.9
	0.8	-872.2	-0.7	8073.2	81.3	-4606.9
	-2.8	-924.9	0.1	7482.8	-13.7	-10264.3
	-3.0	-990.6	1.0	6797.2	-115.3	-17324.0
	-2.2	-783.1	-1.7	8965.3	204.9	4962.6
	-2.4	-848.8	-0.9	8279.7	103.3	-2097.1
	-2.6	-817.6	-1.3	8599.4	153.3	1265.1
	-2.9	-883.3	-0.4	7913.8	51.6	-5794.6
	-2.0	-675.9	-3.1	10081.9	371.8	16492.0
	-2.3	-741.6	-2.3	9396.3	270.2	9432.3
Asta	306	nod	144	140		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.8	48.3	1.7	-4497.6	202.1	7507.8
	-1.6	-11.3	2.5	-5605.8	303.3	14566.4
	-2.6	177.1	-0.1	-2106.9	-15.1	-7742.9
	-2.4	117.5	0.7	-3215.1	86.0	-684.2
	-0.4	145.5	0.3	-2687.9	34.0	-3998.9
	-0.2	85.9	1.1	-3796.2	135.2	3059.8
	-1.3	274.3	-1.5	-297.2	-183.2	-19249.5
	-1.1	214.7	-0.7	-1405.5	-82.1	-12190.8
	1.3	164.6	0.0	-2295.9	3.5	-6256.9
	1.5	105.0	0.9	-3404.2	104.6	801.7
	0.4	293.4	-1.8	94.8	-213.8	-21507.6
	0.7	233.8	-0.9	-1013.5	-112.6	-14448.9
	2.6	261.8	-1.4	-486.2	-164.6	-17763.6
	2.8	202.2	-0.5	-1594.5	-63.5	-10704.9
	1.8	390.6	-3.2	1904.5	-381.9	-33014.2
	2.0	331.0	-2.3	796.2	-280.7	-25955.5
113.	-1.8	-198.9	1.7	-4497.6	13.0	-1213.7
	-1.6	-258.5	2.5	-5605.8	19.8	-887.4
	-2.6	-70.1	-0.1	-2106.9	-1.6	-1918.4
	-2.4	-129.7	0.7	-3215.1	5.2	-1592.2
	-0.4	-101.7	0.3	-2687.9	1.5	-1745.8
	-0.2	-161.3	1.1	-3796.2	8.4	-1419.6
	-1.3	27.1	-1.5	-297.2	-13.1	-2450.6
	-1.1	-32.5	-0.7	-1405.5	-6.2	-2124.3
	1.3	-82.6	0.0	-2295.9	1.7	-1846.8
	1.5	-142.2	0.9	-3404.2	8.5	-1520.5
	0.4	46.2	-1.8	94.8	-13.0	-2551.5
	0.7	-13.4	-0.9	-1013.5	-6.1	-2225.3
	2.6	14.6	-1.4	-486.2	-9.8	-2379.0
	2.8	-45.0	-0.5	-1594.5	-2.9	-2052.7
	1.8	143.4	-3.2	1904.5	-24.4	-3083.7
	2.0	83.8	-2.3	796.2	-17.6	-2757.4
226.	-1.8	-422.4	1.7	-4497.6	-176.4	-36520.5
	-1.6	-482.0	2.5	-5605.8	-263.9	-42926.6
	-2.6	-293.6	-0.1	-2106.9	11.6	-22679.3
	-2.4	-353.2	0.7	-3215.1	-75.9	-29085.5
	-0.4	-325.3	0.3	-2687.9	-31.2	-26078.1
	-0.2	-384.9	1.1	-3796.2	-118.7	-32484.3
	-1.3	-196.5	-1.5	-297.2	156.8	-12237.0
	-1.1	-256.1	-0.7	-1405.5	69.3	-18643.1
	1.3	-306.2	0.0	-2295.9	0.1	-24022.0
	1.5	-365.8	0.9	-3404.2	-87.3	-30428.1
	0.4	-177.4	-1.8	94.8	188.1	-10180.8
	0.7	-237.0	-0.9	-1013.5	100.6	-16587.0
	2.6	-209.0	-1.4	-486.2	145.3	-13579.6
	2.8	-268.6	-0.5	-1594.5	57.8	-19985.8
	1.8	-80.2	-3.2	1904.5	333.3	261.5
	2.0	-139.8	-2.3	796.2	245.8	-6144.6
Asta	307	nod	140	127		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3.5	1999.2	4.3	-35425.9	466.8	-299227.4
	-3.6	1765.9	6.5	-37208.6	702.7	-268679.2
	-2.3	2502.5	-0.4	-31560.7	-42.2	-365098.3
	-2.3	2269.1	1.8	-33343.4	193.8	-334550.1
	-5.6	2380.4	0.8	-32531.4	85.0	-349133.6
	-5.6	2147.1	2.9	-34314.0	320.9	-318585.4
	-4.3	2883.6	-3.9	-28666.1	-424.0	-415004.5
	-4.3	2650.3	-1.7	-30448.8	-188.0	-384456.4
	0.7	2463.0	0.1	-32020.9	12.3	-360033.2
	0.7	2229.6	2.2	-33803.6	248.3	-329485.0
	2.0	2966.2	-4.6	-28155.6	-496.6	-425904.1
	2.0	2732.8	-2.4	-29938.3	-260.6	-395355.9
	-1.3	2844.1	-3.4	-29126.3	-369.5	-409939.4
	-1.3	2610.8	-1.3	-30909.0	-133.5	-379391.2
	0.0	3347.3	-8.1	-25261.1	-878.4	-475810.3
	0.0	3114.0	-5.9	-27043.8	-642.4	-445262.2
109.	-3.5	439.1	4.3	-35425.9	-2.6	-163594.7

	-3.6	205.8	6.5	-37208.6	-3.6	-158571.3
	-2.3	942.3	-0.4	-31560.7	-0.3	-174419.4
	-2.3	709.0	1.8	-33343.4	-1.2	-169396.1
	-5.6	820.3	0.8	-32531.4	-0.1	-171806.5
	-5.6	586.9	2.9	-34314.0	-1.0	-166783.2
	-4.3	1323.5	-3.9	-28666.1	2.2	-182631.2
	-4.3	1090.1	-1.7	-30448.8	1.3	-177607.9
	0.7	902.8	0.1	-32020.9	3.7	-173673.3
	0.7	669.5	2.2	-33803.6	2.7	-168650.0
	2.0	1406.1	-4.6	-28155.6	6.0	-184498.1
	2.0	1172.7	-2.4	-29938.3	5.0	-179474.7
	-1.3	1284.0	-3.4	-29126.3	6.2	-181885.1
	-1.3	1050.7	-1.3	-30909.0	5.2	-176861.8
	0.0	1787.2	-8.1	-25261.1	8.5	-192709.9
	0.0	1553.9	-5.9	-27043.8	7.6	-187686.6
219.	-3.5	-1369.8	4.3	-35425.9	-471.3	-212230.0
	-3.6	-1603.1	6.5	-37208.6	-709.2	-232731.5
	-2.3	-866.6	-0.4	-31560.7	42.2	-168008.5
	-2.3	-1099.9	1.8	-33343.4	-195.7	-188510.1
	-5.6	-988.6	0.8	-32531.4	-84.5	-178747.4
	-5.6	-1222.0	2.9	-34314.0	-322.4	-199249.0
	-4.3	-485.4	-3.9	-28666.1	429.0	-134526.0
	-4.3	-718.8	-1.7	-30448.8	191.1	-155027.5
	0.7	-906.1	0.1	-32020.9	-5.6	-171580.9
	0.7	-1139.4	2.2	-33803.6	-243.5	-192082.5
	2.0	-402.8	-4.6	-28155.6	507.9	-127359.5
	2.0	-636.2	-2.4	-29938.3	270.0	-147861.0
	-1.3	-524.9	-3.4	-29126.3	381.3	-138098.4
	-1.3	-758.2	-1.3	-30909.0	143.4	-158599.9
	0.0	-21.7	-8.1	-25261.1	894.8	-93876.9
	0.0	-255.0	-5.9	-27043.8	656.9	-114378.5
Asta	308	nod1	127	125		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4.5	2243.7	1.1	37361.5	238.8	20714.5
	-4.8	2120.1	1.6	37942.1	354.1	40671.0
	-1.0	2510.2	0.0	36108.5	-9.6	-22304.7
	-1.3	2386.6	0.5	36689.1	105.7	-2348.1
	-6.3	2445.6	0.2	36414.3	47.9	-11900.4
	-6.7	2322.0	0.7	36994.9	163.1	8056.2
	-2.8	2712.1	-0.9	35161.3	-200.5	-54919.5
	-3.2	2588.5	-0.4	35741.9	-85.3	-34963.0
	-0.8	2489.3	0.0	36251.9	6.6	-19074.1
	-1.2	2365.7	0.5	36832.5	121.9	882.4
	2.7	2755.8	-1.1	34998.9	-241.8	-62093.3
	2.3	2632.2	-0.6	35579.5	-126.5	-42136.7
	-2.7	2691.2	-0.8	35304.7	-184.4	-51689.0
	-3.0	2567.6	-0.3	35885.3	-69.1	-31732.4
	0.8	2957.7	-1.9	34051.7	-432.8	-94708.1
	0.5	2834.1	-1.4	34632.3	-317.5	-74751.6
205.	-4.5	-652.4	1.1	37361.5	17.7	190712.6
	-4.8	-776.0	1.6	37942.1	27.6	185375.3
	-1.0	-385.9	0.0	36108.5	-3.3	202239.3
	-1.3	-509.5	0.5	36689.1	6.6	196902.1
	-6.3	-450.5	0.2	36414.3	3.1	199417.8
	-6.7	-574.1	0.7	36994.9	13.1	194080.5
	-2.8	-184.0	-0.9	35161.3	-17.9	210944.5
	-3.2	-307.6	-0.4	35741.9	-7.9	205607.3
	-0.8	-406.8	0.0	36251.9	1.5	201197.3
	-1.2	-530.4	0.5	36832.5	11.5	195860.1
	2.7	-140.3	-1.1	34998.9	-19.5	212724.1
	2.3	-263.9	-0.6	35579.5	-9.5	207386.8
	-2.7	-204.9	-0.8	35304.7	-13.0	209902.5
	-3.0	-328.5	-0.3	35885.3	-3.1	204565.3
	0.8	61.6	-1.9	34051.7	-34.0	221429.3
	0.5	-62.0	-1.4	34632.3	-24.1	216092.0
409.	-4.5	-3968.1	1.1	37361.5	-203.7	-274975.5
	-4.8	-4091.7	1.6	37942.1	-299.0	-305606.5
	-1.0	-3701.6	0.0	36108.5	2.8	-208902.8
	-1.3	-3825.2	0.5	36689.1	-92.6	-239533.8
	-6.3	-3766.2	0.2	36414.3	-41.8	-224950.2
	-6.7	-3889.8	0.7	36994.9	-137.2	-255581.2
	-2.8	-3499.7	-0.9	35161.3	164.6	-158877.6
	-3.2	-3623.3	-0.4	35741.9	69.3	-189508.6
	-0.8	-3722.5	0.0	36251.9	-3.4	-214218.2
	-1.2	-3846.0	0.5	36832.5	-98.8	-244849.2
	2.7	-3456.0	-1.1	34998.9	203.0	-148145.6
	2.3	-3579.5	-0.6	35579.5	107.7	-178776.6
	-2.7	-3520.6	-0.8	35304.7	158.5	-164192.9
	-3.0	-3644.2	-0.3	35885.3	63.1	-194823.9
	0.8	-3254.1	-1.9	34051.7	364.9	-98120.3
	0.5	-3377.6	-1.4	34632.3	269.5	-128751.3
Asta	309	nod1	125	123		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3.9	1327.2	4.0	17346.2	380.1	-129627.5
	-4.8	1161.5	6.1	15490.3	577.3	-123022.8
	-1.5	1684.5	-0.4	21328.8	-39.8	-143810.0
	-2.4	1518.8	1.7	19472.8	157.4	-137205.3
	-2.9	1598.0	0.7	20395.4	67.0	-140466.7
	-3.8	1432.3	2.8	18539.4	264.2	-133862.1

	-0.5	1955.3	-3.7	24377.9	-352.9	-154649.2
	-1.4	1789.6	-1.6	22522.0	-155.7	-148044.6
	-3.1	1656.9	0.3	21176.8	23.5	-143107.4
	-3.9	1491.2	2.4	19320.8	220.7	-136502.8
	-0.7	2014.3	-4.1	25159.3	-396.4	-157289.9
	-1.6	1848.5	-2.0	23303.4	-199.2	-150685.3
	-2.0	1927.7	-3.0	24225.9	-289.5	-153946.7
	-2.9	1762.0	-0.9	22370.0	-92.3	-147342.0
	0.3	2285.0	-7.4	28208.5	-709.4	-168129.2
	-0.5	2119.3	-5.3	26352.6	-512.2	-161524.5
108.	-3.9	-169.7	4.0	17346.2	-52.3	-66043.8
	-4.8	-335.4	6.1	15490.3	-79.7	-77408.7
	-1.5	187.6	-0.4	21328.8	3.1	-41479.0
	-2.4	21.9	1.7	19472.8	-24.3	-52843.9
	-2.9	101.1	0.7	20395.4	-8.7	-47522.5
	-3.8	-64.6	2.8	18539.4	-36.2	-58887.5
	-0.5	458.4	-3.7	24377.9	46.7	-22957.8
	-1.4	292.7	-1.6	22522.0	19.2	-34322.7
	-3.1	160.0	0.3	21176.8	-8.9	-43766.9
	-3.9	-5.7	2.4	19320.8	-36.4	-55131.9
	-0.7	517.4	-4.1	25159.3	46.5	-19202.1
	-1.6	351.7	-2.0	23303.4	19.0	-30567.1
	-2.0	430.8	-3.0	24225.9	34.6	-25245.7
	-2.9	265.1	-0.9	22370.0	7.2	-36610.7
	0.3	788.1	-7.4	28208.5	90.0	-680.9
217.	-0.5	622.4	-5.3	26352.6	62.6	-12045.9
	-3.9	-1758.1	4.0	17346.2	-483.5	-169735.7
	-4.8	-1923.8	6.1	15490.3	-735.6	-199070.2
	-1.5	-1400.8	-0.4	21328.8	46.5	-106424.2
	-2.4	-1566.5	1.7	19472.8	-205.6	-135758.7
	-2.9	-1487.3	0.7	20395.4	-83.4	-121854.0
	-3.8	-1653.1	2.8	18539.4	-335.5	-151188.6
	-0.5	-1130.0	-3.7	24377.9	446.7	-58542.6
	-1.4	-1295.7	-1.6	22522.0	194.6	-87877.1
	-3.1	-1428.4	0.3	21176.8	-41.8	-111706.0
	-3.9	-1594.1	2.4	19320.8	-293.9	-141040.5
	-0.7	-1071.1	-4.1	25159.3	488.2	-48394.5
	-1.6	-1236.8	-2.0	23303.4	236.1	-77729.0
	-2.0	-1157.6	-3.0	24225.9	358.3	-63824.3
	-2.9	-1323.3	-0.9	22370.0	106.2	-93158.8
	0.3	-800.3	-7.4	28208.5	888.4	-512.8
	-0.5	-966.0	-5.3	26352.6	636.3	-29847.3
Asta	311	nod1	122	183		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.1	1063.9	1.5	-21824.5	249.6	-56641.1
	0.3	1018.9	2.5	-31467.3	389.0	-65174.2
	-0.4	1161.0	-0.4	-1046.7	-45.1	-38245.5
	-0.3	1116.0	0.6	-10689.5	94.3	-46778.6
	0.2	1137.3	0.2	-6058.0	37.9	-42694.1
	0.4	1092.3	1.2	-15700.7	177.3	-51227.2
	-0.3	1234.4	-1.7	14719.8	-256.8	-24298.5
	-0.2	1189.4	-0.7	5077.0	-117.4	-32831.6
	0.2	1152.7	0.3	-2529.3	21.2	-39632.3
	0.4	1107.7	1.3	-12172.1	160.6	-48165.4
	-0.3	1249.8	-1.6	18248.5	-273.5	-21236.7
	-0.2	1204.8	-0.6	8605.7	-134.1	-29769.8
	0.3	1226.1	-1.0	13237.3	-190.5	-25685.3
	0.5	1181.1	0.0	3594.5	-51.1	-34218.4
	-0.2	1323.2	-2.9	34015.1	-485.2	-7289.7
	-0.1	1278.2	-1.9	24372.3	-345.8	-15822.8
55.	0.1	342.7	1.5	-21824.5	181.1	-17999.9
	0.3	297.7	2.5	-31467.3	266.3	-29005.4
	-0.4	439.9	-0.4	-1046.7	-11.4	5731.5
	-0.3	394.9	0.6	-10689.5	73.7	-5274.0
	0.2	416.2	0.2	-6058.0	39.0	-19.2
	0.4	371.2	1.2	-15700.7	124.2	-11024.7
	-0.3	513.3	-1.7	14719.8	-153.5	23712.2
	-0.2	468.3	-0.7	5077.0	-68.4	12706.7
	0.2	431.5	0.3	-2529.3	-6.3	3887.6
	0.4	386.5	1.3	-12172.1	78.9	-7117.9
	-0.3	528.7	-1.6	18248.5	-198.8	27619.1
	-0.2	483.7	-0.6	8605.7	-113.7	16613.5
	0.3	505.0	-1.0	13237.3	-148.4	21868.4
	0.5	460.0	0.0	3594.5	-63.2	10862.8
	-0.2	602.1	-2.9	34015.1	-340.9	45599.8
	-0.1	557.1	-1.9	24372.3	-255.8	34594.3
110.	0.1	-378.4	1.5	-21824.5	125.2	-18978.4
	0.3	-423.4	2.5	-31467.3	156.2	-32456.4
	-0.4	-281.3	-0.4	-1046.7	26.4	10088.8
	-0.3	-326.3	0.6	-10689.5	57.3	-3389.1
	0.2	-305.0	0.2	-6058.0	52.8	3036.0
	0.4	-350.0	1.2	-15700.7	83.7	-10441.9
	-0.3	-207.8	-1.7	14719.8	-46.1	32103.3
	-0.2	-252.8	-0.7	5077.0	-15.2	18625.3
	0.2	-289.6	0.3	-2529.3	-37.9	7787.9
	0.4	-334.6	1.3	-12172.1	-7.0	-5690.1
	-0.3	-192.5	-1.6	18248.5	-136.8	36855.1
	-0.2	-237.5	-0.6	8605.7	-105.9	23377.2
	0.3	-216.2	-1.0	13237.3	-110.4	29802.3
	0.5	-261.2	0.0	3594.5	-79.5	16324.4

	-0.2	-119.0	-2.9	34015.1	-209.3	58869.6
	-0.1	-164.0	-1.9	24372.3	-178.4	45391.6
Asta	312	nod	129	140		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.5	1285.5	1.6	2298.7	278.8	-102941.3
	-0.4	1306.3	2.4	4025.7	417.9	-106665.8
	-1.0	1240.5	-0.1	-1425.3	-21.0	-94878.5
	-0.9	1261.3	0.7	301.7	118.1	-98603.0
	0.0	1251.7	0.3	-522.5	51.9	-96883.9
	0.1	1272.5	1.1	1204.5	191.0	-100608.5
	-0.4	1206.7	-1.4	-4246.5	-247.9	-88821.1
	-0.3	1227.5	-0.6	-2519.5	-108.8	-92545.6
	-0.2	1246.0	0.0	-1123.9	3.7	-95829.0
	-0.1	1266.8	0.8	603.1	142.8	-99553.5
	-0.6	1201.0	-1.7	-4847.9	-296.0	-87766.2
	-0.5	1221.8	-0.9	-3121.0	-156.9	-91490.7
	0.4	1212.2	-1.3	-3945.1	-223.2	-89771.6
	0.5	1233.0	-0.5	-2218.1	-84.1	-93496.1
	-0.1	1167.2	-3.0	-7669.2	-522.9	-81708.8
	0.1	1188.0	-2.2	-5942.2	-383.8	-85433.3
147.	-0.5	359.0	1.6	2298.7	40.6	12612.2
	-0.4	379.7	2.4	4025.7	60.8	11937.5
	-1.0	313.9	-0.1	-1425.3	-3.0	14069.6
	-0.9	334.7	0.7	301.7	17.2	13394.9
	0.0	325.2	0.3	-522.5	7.4	13712.2
	0.1	346.0	1.1	1204.5	27.6	13037.5
	-0.4	280.2	-1.4	-4246.5	-36.2	15169.5
	-0.3	300.9	-0.6	-2519.5	-16.0	14494.9
	-0.2	319.5	0.0	-1123.9	0.4	13929.0
	-0.1	340.2	0.8	603.1	20.6	13254.4
	-0.6	274.5	-1.7	-4847.9	-43.2	15386.4
	-0.5	295.2	-0.9	-3121.0	-23.0	14711.7
	0.4	285.7	-1.3	-3945.1	-32.8	15029.0
	0.5	306.5	-0.5	-2218.1	-12.6	14354.3
	-0.1	240.7	-3.0	-7669.2	-76.3	16486.4
	0.1	261.5	-2.2	-5942.2	-56.1	15811.7
294.	-0.5	-148.2	1.6	2298.7	-197.6	22946.6
	-0.4	-127.5	2.4	4025.7	-296.3	25321.7
	-1.0	-193.2	-0.1	-1425.3	15.0	17798.4
	-0.9	-172.5	0.7	301.7	-83.7	20173.6
	0.0	-182.0	0.3	-522.5	-37.1	19089.2
	0.1	-161.2	1.1	1204.5	-135.8	21464.3
	-0.4	-227.0	-1.4	-4246.5	175.5	13941.0
	-0.3	-206.2	-0.6	-2519.5	76.8	16316.2
	-0.2	-187.7	0.0	-1123.9	-2.9	18467.3
	-0.1	-166.9	0.8	603.1	-101.6	20842.5
	-0.6	-232.7	-1.7	-4847.9	209.7	13319.2
	-0.5	-212.0	-0.9	-3121.0	111.0	15694.4
	0.4	-221.5	-1.3	-3945.1	157.7	14609.9
	0.5	-200.7	-0.5	-2218.1	59.0	16985.1
	-0.1	-266.5	-3.0	-7669.2	370.2	9461.8
	0.1	-245.7	-2.2	-5942.2	271.5	11836.9
Asta	313	nod	175	174		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4.9	-149.8	2.1	-295.0	107.7	-5977.7
	-4.7	-149.8	3.1	-295.0	152.5	-5977.7
	-6.0	-149.8	0.0	-295.0	14.6	-5977.7
	-5.8	-149.8	1.0	-295.0	59.4	-5977.7
	-4.2	-149.8	0.4	-295.0	22.5	-5977.7
	-4.0	-149.8	1.4	-295.0	67.3	-5977.7
	-5.4	-149.8	-1.7	-295.0	-70.6	-5977.7
	-5.1	-149.8	-0.7	-295.0	-25.8	-5977.7
	7.0	-149.8	0.0	-295.0	-5.3	-5977.7
	7.2	-149.8	1.0	-295.0	39.5	-5977.7
	5.9	-149.8	-2.1	-295.0	-98.4	-5977.7
	6.1	-149.8	-1.1	-295.0	-53.6	-5977.7
	7.6	-149.8	-1.7	-295.0	-90.5	-5977.7
	7.9	-149.8	-0.7	-295.0	-45.7	-5977.7
	6.5	-149.8	-3.8	-295.0	-183.6	-5977.7
	6.8	-149.8	-2.8	-295.0	-138.8	-5977.7
93.	-4.9	-350.5	2.1	-295.0	-86.7	-29318.1
	-4.7	-350.5	3.1	-295.0	-134.4	-29318.1
	-6.0	-350.5	0.0	-295.0	17.5	-29318.1
	-5.8	-350.5	1.0	-295.0	-30.2	-29318.1
	-4.2	-350.5	0.4	-295.0	-13.8	-29318.1
	-4.0	-350.5	1.4	-295.0	-61.5	-29318.1
	-5.4	-350.5	-1.7	-295.0	90.4	-29318.1
	-5.1	-350.5	-0.7	-295.0	42.7	-29318.1
	7.0	-350.5	0.0	-295.0	-5.5	-29318.1
	7.2	-350.5	1.0	-295.0	-53.2	-29318.1
	5.9	-350.5	-2.1	-295.0	98.7	-29318.1
	6.1	-350.5	-1.1	-295.0	51.0	-29318.1
	7.6	-350.5	-1.7	-295.0	67.4	-29318.1
	7.9	-350.5	-0.7	-295.0	19.7	-29318.1
	6.5	-350.5	-3.8	-295.0	171.6	-29318.1
	6.8	-350.5	-2.8	-295.0	123.9	-29318.1
187.	-4.9	-551.6	2.1	-295.0	-280.4	-71406.0
	-4.7	-551.6	3.1	-295.0	-420.6	-71406.0
	-6.0	-551.6	0.0	-295.0	20.8	-71406.0

		-5.8	-551.6	1.0	-295.0	-119.4	-71406.0
		-4.2	-551.6	0.4	-295.0	-49.4	-71406.0
		-4.0	-551.6	1.4	-295.0	-189.6	-71406.0
		-5.4	-551.6	-1.7	-295.0	251.8	-71406.0
		-5.1	-551.6	-0.7	-295.0	111.5	-71406.0
		7.0	-551.6	0.0	-295.0	-6.0	-71406.0
		7.2	-551.6	1.0	-295.0	-146.3	-71406.0
		5.9	-551.6	-2.1	-295.0	295.1	-71406.0
		6.1	-551.6	-1.1	-295.0	154.9	-71406.0
		7.6	-551.6	-1.7	-295.0	224.9	-71406.0
		7.9	-551.6	-0.7	-295.0	84.7	-71406.0
		6.5	-551.6	-3.8	-295.0	526.1	-71406.0
		6.8	-551.6	-2.8	-295.0	385.9	-71406.0
Asta	317	nod	65	177			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-13983.0	1733.3	-139.3	-1043.5	-29509.6	-205362.2	
	-13993.4	1778.9	-136.1	-1562.7	-29040.9	-213308.3	
	-13960.7	1634.5	-145.9	75.0	-30484.9	-188151.4	
	-13971.0	1680.1	-142.7	-444.1	-30016.2	-196097.5	
	-13966.3	1659.1	-144.5	-194.2	-30291.8	-192430.7	
	-13976.6	1704.7	-141.3	-713.4	-29823.1	-200376.7	
	-13943.9	1560.3	-151.1	924.4	-31267.2	-175219.9	
	-13954.3	1605.9	-147.9	405.2	-30798.5	-183165.9	
	-13962.5	1643.7	-148.7	-19.2	-31100.8	-189744.7	
	-13972.8	1689.3	-145.6	-538.4	-30632.1	-197690.7	
	-13940.2	1544.9	-155.3	1099.4	-32076.2	-172533.9	
	-13950.5	1590.5	-152.2	580.2	-31607.5	-180479.9	
	-13945.7	1569.4	-154.0	830.1	-31883.1	-176813.2	
	-13956.0	1615.0	-150.8	310.9	-31414.4	-184759.2	
	-13923.4	1470.6	-160.6	1948.7	-32858.4	-159602.4	
	-13933.7	1516.3	-157.4	1429.5	-32389.8	-167548.4	
165.	-13488.0	1733.3	-139.3	-1043.5	-6504.1	80630.0	
	-13498.4	1778.9	-136.1	-1562.7	-6554.6	80210.0	
	-13465.7	1634.5	-145.9	75.0	-6388.8	81539.5	
	-13476.0	1680.1	-142.7	-444.1	-6439.3	81119.5	
	-13471.3	1659.1	-144.5	-194.2	-6423.5	81313.6	
	-13481.6	1704.7	-141.3	-713.4	-6474.0	80893.6	
	-13448.9	1560.3	-151.1	924.4	-6308.2	82223.1	
	-13459.3	1605.9	-147.9	405.2	-6358.7	81803.1	
	-13467.5	1643.7	-148.7	-19.2	-6589.5	81460.1	
	-13477.8	1689.3	-145.6	-538.4	-6640.1	81040.1	
	-13445.2	1544.9	-155.3	1099.4	-6474.2	82369.6	
	-13455.5	1590.5	-152.2	580.2	-6524.8	81949.6	
	-13450.7	1569.4	-154.0	830.1	-6508.9	82143.7	
	-13461.0	1615.0	-150.8	310.9	-6559.5	81723.7	
	-13428.4	1470.6	-160.6	1948.7	-6393.6	83053.2	
	-13438.7	1516.3	-157.4	1429.5	-6444.2	82633.2	
330.	-12993.0	1733.3	-139.3	-1043.5	16444.5	366622.2	
	-13003.4	1778.9	-136.1	-1562.7	15874.7	373728.2	
	-12970.7	1634.5	-145.9	75.0	17648.6	351230.5	
	-12981.0	1680.1	-142.7	-444.1	17078.7	358336.5	
	-12976.3	1659.1	-144.5	-194.2	17388.0	355057.9	
	-12986.6	1704.7	-141.3	-713.4	16818.1	362163.9	
	-12953.9	1560.3	-151.1	924.4	18592.0	339666.2	
	-12964.3	1605.9	-147.9	405.2	18022.2	346772.2	
	-12972.5	1643.7	-148.7	-19.2	17980.7	352664.9	
	-12982.8	1689.3	-145.6	-538.4	17410.8	359770.8	
	-12950.2	1544.9	-155.3	1099.4	19184.7	337273.2	
	-12960.5	1590.5	-152.2	580.2	18614.9	344379.1	
	-12955.7	1569.4	-154.0	830.1	18924.1	341100.5	
	-12966.0	1615.0	-150.8	310.9	18354.3	348206.5	
	-12933.4	1470.6	-160.6	1948.7	20128.2	325708.8	
	-12943.7	1516.3	-157.4	1429.5	19558.3	332814.8	
Asta	319	nod	183	154			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-4.6	-530.2	13.3	-8593.4	60.9	12227.1	
	-3.2	-671.9	20.0	-10986.4	96.4	12260.6	
	-7.7	-225.2	-1.0	-3425.8	-10.0	12149.5	
	-6.3	-366.9	5.7	-5818.8	25.5	12183.0	
	-3.8	-298.1	2.5	-4690.2	11.0	12175.7	
	-2.4	-439.9	9.2	-7083.2	46.5	12209.3	
	-6.9	6.9	-11.9	477.5	-59.9	12098.1	
	-5.5	-134.9	-5.2	-1915.5	-24.4	12131.6	
	4.8	-245.0	0.6	-3874.5	15.6	12178.6	
	6.2	-386.7	7.3	-6267.5	51.1	12212.1	
	1.7	60.0	-13.8	1293.1	-55.3	12101.0	
	3.1	-81.7	-7.1	-1099.9	-19.8	12134.5	
	5.5	-12.9	-10.3	28.8	-34.3	12127.2	
	7.0	-154.7	-3.6	-2364.2	1.2	12160.8	
	2.5	292.1	-24.7	5196.4	-105.2	12049.6	
	3.9	150.3	-17.9	2803.4	-69.7	12083.1	
28.	-4.6	-583.2	13.3	-8593.4	-320.8	-3503.1	
	-3.2	-724.9	20.0	-10986.4	-474.8	-7474.9	
	-7.7	-278.2	-1.0	-3425.8	15.8	5037.9	
	-6.3	-419.9	5.7	-5818.8	-138.3	1066.2	
	-3.8	-351.1	2.5	-4690.2	-63.7	3002.3	
	-2.4	-492.9	9.2	-7083.2	-217.8	-969.4	
	-6.9	-46.1	-11.9	477.5	272.8	11543.4	
	-5.5	-187.8	-5.2	-1915.5	118.7	7571.6	

	4.8	-298.0	0.6	-3874.5	3.0	4508.6
	6.2	-439.7	7.3	-6267.5	-151.1	536.9
	1.7	7.0	-13.8	1293.1	339.5	13049.7
	3.1	-134.7	-7.1	-1099.9	185.4	9077.9
	5.5	-65.9	-10.3	28.8	260.0	11014.1
	7.0	-207.7	-3.6	-2364.2	105.9	7042.3
	2.5	239.1	-24.7	5196.4	596.5	19555.1
	3.9	97.4	-17.9	2803.4	442.5	15583.4
57.	-4.6	-636.1	13.3	-8593.4	-697.0	-20729.2
	-3.2	-777.9	20.0	-10986.4	-1040.7	-28706.2
	-7.7	-331.1	-1.0	-3425.8	45.6	-3569.9
	-6.3	-472.9	5.7	-5818.8	-298.1	-11546.9
	-3.8	-404.1	2.5	-4690.2	-133.0	-7666.9
	-2.4	-545.8	9.2	-7083.2	-476.7	-15643.9
	-6.9	-99.1	-11.9	477.5	609.5	9492.4
	-5.5	-240.8	-5.2	-1915.5	265.8	1515.4
	4.8	-350.9	0.6	-3874.5	-13.6	-4659.0
	6.2	-492.7	7.3	-6267.5	-357.3	-12636.0
	1.7	-45.9	-13.8	1293.1	728.9	12500.3
	3.1	-187.7	-7.1	-1099.9	385.2	4523.3
	5.5	-118.9	-10.3	28.8	550.3	8403.3
	7.0	-260.6	-3.6	-2364.2	206.6	426.3
	2.5	186.1	-24.7	5196.4	1292.9	25562.6
	3.9	44.4	-17.9	2803.4	949.2	17585.6
Asta	320	nodì	28	10		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	4990.5	2.3	-10335.1	536.6	-208924.3
	0.0	5104.8	3.5	-10382.0	803.7	-220217.4
	0.0	4744.0	-0.2	-10238.6	-38.6	-184654.0
	0.0	4858.3	1.0	-10285.5	228.6	-195947.1
	0.0	4803.8	0.4	-10252.9	99.5	-190405.7
	0.0	4918.1	1.6	-10299.8	366.6	-201698.9
	0.0	4557.3	-2.1	-10156.4	-475.6	-166135.4
	0.0	4671.6	-0.9	-10203.3	-208.5	-177428.5
	0.0	4764.4	0.0	-10138.4	10.8	-185971.4
	0.0	4878.7	1.2	-10185.3	278.0	-197264.5
	0.0	4518.0	-2.4	-10041.9	-564.3	-161701.0
	0.0	4632.2	-1.3	-10088.8	-297.2	-172994.2
	0.0	4577.8	-1.8	-10056.2	-426.2	-167452.8
	0.0	4692.1	-0.7	-10103.1	-159.1	-178745.9
	0.0	4331.3	-4.3	-9959.7	-1001.3	-143182.4
	0.0	4445.6	-3.2	-10006.6	-734.2	-154475.6
203.	0.0	418.6	2.3	-2181.6	69.8	334446.7
	0.0	472.6	3.4	-2913.7	104.6	340042.3
	0.0	302.8	-0.2	-604.8	-5.0	322333.9
	0.0	356.7	1.0	-1336.8	29.7	327929.4
	0.0	330.2	0.4	-983.2	12.9	325345.2
	0.0	384.2	1.6	-1715.2	47.7	330940.7
	0.0	214.4	-2.0	593.7	-61.9	313232.3
	0.0	268.3	-0.9	-138.4	-27.2	318827.9
	0.0	309.1	0.0	-662.3	1.5	323676.8
	0.0	363.0	1.2	-1394.3	36.2	329272.4
	0.0	193.2	-2.4	914.5	-73.4	311564.0
	0.0	247.1	-1.3	182.5	-38.6	317159.5
	0.0	220.7	-1.8	536.2	-55.4	314575.3
	0.0	274.6	-0.7	-195.8	-20.6	320170.8
	0.0	104.8	-4.3	2113.0	-130.3	302462.4
	0.0	158.7	-3.1	1381.0	-95.5	308058.0
405.	0.0	-4074.6	2.3	5845.4	-394.4	-33383.2
	0.0	-4074.3	3.4	4387.8	-590.6	-22298.3
	0.0	-4073.4	-0.2	8990.1	28.3	-57214.9
	0.0	-4073.0	1.0	7532.5	-168.0	-46130.0
	0.0	-4075.7	0.4	8226.5	-73.2	-51552.3
	0.0	-4075.4	1.6	6768.9	-269.5	-40467.4
	0.0	-4074.5	-2.0	11371.2	349.4	-75384.0
	0.0	-4074.2	-0.9	9913.6	153.1	-64299.1
	0.0	-4081.3	0.0	8782.5	-7.9	-55830.4
	0.0	-4081.0	1.2	7324.9	-204.2	-44745.5
	0.0	-4080.1	-2.4	11927.2	414.8	-79662.1
	0.0	-4079.8	-1.3	10469.6	218.5	-68577.2
	0.0	-4082.5	-1.8	11163.6	313.3	-73999.4
	0.0	-4082.2	-0.7	9706.0	117.0	-62914.6
	0.0	-4081.3	-4.3	14308.3	735.9	-97831.2
	0.0	-4080.9	-3.1	12850.7	539.6	-86746.3
Asta	321	nodì	15	35		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2672.8	4.1	-47989.7	369.8	-141199.3
	0.0	2785.8	6.1	-54084.4	554.2	-143842.5
	0.0	2429.3	-0.3	-34837.8	-27.1	-135519.1
	0.0	2542.3	1.7	-40932.5	157.3	-138162.2
	0.0	2488.3	0.8	-38038.5	68.5	-136866.7
	0.0	2601.2	2.8	-44133.2	252.9	-139509.9
	0.0	2244.7	-3.6	-24886.6	-328.4	-131186.5
	0.0	2357.7	-1.6	-30981.3	-144.0	-133829.6
	0.0	2448.6	0.1	-35888.3	7.5	-135857.5
	0.0	2561.6	2.1	-41983.0	191.9	-138500.6
	0.0	2205.0	-4.3	-22736.4	-389.4	-130177.3
	0.0	2318.0	-2.3	-28831.1	-205.1	-132820.4
	0.0	2264.0	-3.2	-25937.1	-293.8	-131524.9

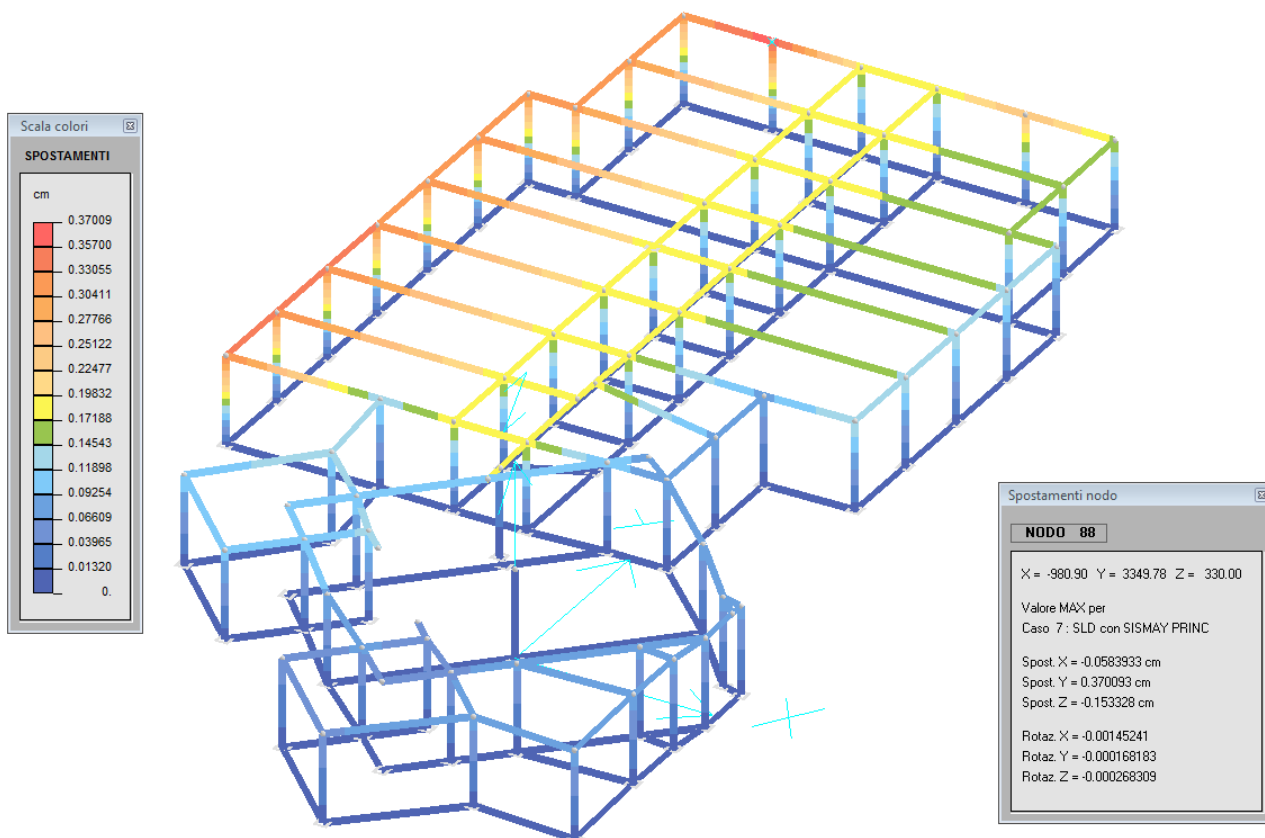
85.	0.0	2377.0	-1.2	-32031.8	-109.4	-134168.0
	0.0	2020.5	-7.6	-12785.2	-690.7	-125844.7
	0.0	2133.4	-5.6	-18879.9	-506.3	-128487.8
	0.0	539.6	4.1	-44587.5	26.0	-5153.4
	0.0	613.6	6.1	-51284.3	39.2	174.8
	0.0	380.1	-0.3	-30134.7	-2.1	-16652.4
	0.0	454.2	1.7	-36831.5	11.1	-11324.1
	0.0	418.5	0.8	-33654.7	4.7	-13849.0
	0.0	492.6	2.8	-40351.5	17.8	-8520.8
	0.0	259.1	-3.6	-19202.0	-23.5	-25348.0
	0.0	333.1	-1.6	-25898.8	-10.3	-20019.7
	0.0	392.0	0.1	-31305.1	0.9	-15663.7
	0.0	466.0	2.1	-38001.9	14.1	-10335.5
	0.0	232.5	-4.3	-16852.3	-27.2	-27162.7
	0.0	306.6	-2.3	-23549.1	-14.0	-21834.4
	0.0	270.9	-3.2	-20372.3	-20.4	-24359.3
	0.0	345.0	-1.2	-27069.1	-7.3	-19031.1
	0.0	111.5	-7.6	-5919.6	-48.6	-35858.3
	0.0	185.5	-5.6	-12616.4	-35.4	-30530.0
	0.0	-1606.3	4.1	-41625.5	-317.7	-50210.8
169.	0.0	-1579.8	6.1	-48990.6	-475.7	-40564.3
	0.0	-1663.1	-0.3	-25729.2	22.9	-71000.6
	0.0	-1636.6	1.7	-33094.2	-135.0	-61354.1
	0.0	-1649.8	0.8	-29603.3	-59.2	-65974.6
	0.0	-1623.3	2.8	-36968.3	-217.2	-56328.1
	0.0	-1706.6	-3.6	-13706.9	281.4	-86764.4
	0.0	-1680.1	-1.6	-21072.0	123.4	-77117.9
	0.0	-1660.0	0.1	-27031.0	-5.6	-69369.4
	0.0	-1633.5	2.1	-34396.0	-163.6	-59722.9
	0.0	-1716.8	-4.3	-11134.6	335.0	-90159.2
	0.0	-1690.3	-2.3	-18499.7	177.1	-80512.7
	0.0	-1703.5	-3.2	-15008.7	252.9	-85133.1
	0.0	-1677.0	-1.2	-22373.7	94.9	-75486.7
	0.0	-1760.3	-7.6	887.6	593.5	-105923.0
	0.0	-1733.8	-5.6	-6477.4	435.5	-96276.5
Asta PROGR. 0.	322	norm	35	19		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	0.0	2999.6	5.0	-96083.7	423.3	-115.3
	0.0	3147.6	7.5	-101725.7	634.4	2523.3
	0.0	2680.8	-0.4	-83940.9	-31.4	-5885.8
	0.0	2828.8	2.1	-89582.8	179.7	-3247.1
	0.0	2757.4	0.9	-86846.0	78.4	-4358.9
	0.0	2905.5	3.4	-92487.9	289.5	-1720.2
	0.0	2438.6	-4.5	-74703.1	-376.3	-10129.3
	0.0	2586.7	-2.0	-80345.0	-165.2	-7490.7
	0.0	2703.0	0.1	-84644.7	8.0	-4905.9
	0.0	2851.1	2.6	-90286.6	219.1	-2267.3
	0.0	2384.2	-5.3	-72501.8	-446.7	-10676.3
	0.0	2532.3	-2.8	-78143.7	-235.6	-8037.7
	0.0	2460.9	-4.0	-75407.0	-336.9	-9149.5
	0.0	2608.9	-1.5	-81048.9	-125.8	-6510.8
	0.0	2142.1	-9.4	-63264.1	-791.6	-14919.9
	0.0	2290.1	-6.9	-68906.0	-580.5	-12281.3
	0.0	-52.3	5.0	-93237.5	-168.5	175344.0
118.	0.0	16.3	7.5	-99960.7	-253.4	190942.0
	0.0	-199.7	-0.4	-78759.3	13.7	141687.9
	0.0	-131.1	2.1	-85482.5	-71.2	157285.9
	0.0	-164.8	0.9	-82235.9	-30.5	149882.0
	0.0	-96.2	3.4	-88959.2	-115.4	165480.0
	0.0	-312.2	-4.5	-67757.7	151.7	116225.9
	0.0	-243.6	-2.0	-74481.0	66.8	131823.9
	0.0	-191.7	0.1	-79669.7	-3.9	144483.9
	0.0	-123.1	2.6	-86392.9	-88.8	160081.9
	0.0	-339.1	-5.3	-65191.5	178.3	110827.7
	0.0	-270.5	-2.8	-71914.7	93.4	126425.8
	0.0	-304.2	-4.0	-68668.1	134.0	119021.9
	0.0	-235.6	-1.5	-75391.4	49.1	134619.9
	0.0	-451.6	-9.4	-54189.9	316.3	85365.8
	0.0	-383.0	-6.9	-60913.2	231.4	100963.8
	0.0	-3220.4	5.0	-92187.0	-761.0	-17109.9
	0.0	-3247.0	7.5	-100121.1	-1142.3	1167.0
	0.0	-3162.3	-0.4	-75094.6	58.9	-56467.5
	0.0	-3188.9	2.1	-83028.7	-322.3	-38190.5
	0.0	-3177.4	0.9	-79209.8	-139.6	-47007.6
237.	0.0	-3204.0	3.4	-87143.9	-520.9	-28730.7
	0.0	-3119.4	-4.5	-62117.4	680.3	-86365.1
	0.0	-3146.0	-2.0	-70051.5	299.0	-68088.2
	0.0	-3171.1	0.1	-76228.9	-15.8	-53696.2
	0.0	-3197.7	2.6	-84163.0	-397.1	-35419.2
	0.0	-3113.0	-5.3	-59136.6	804.1	-93053.7
	0.0	-3139.6	-2.8	-67070.7	422.8	-74776.8
	0.0	-3128.2	-4.0	-63251.7	605.5	-83593.8
	0.0	-3154.8	-1.5	-71185.8	224.3	-65316.9
	0.0	-3070.1	-9.4	-46159.4	1425.4	-122951.4
	0.0	-3096.7	-6.9	-54093.5	1044.2	-104674.5

VERIFICA SPOSTAMENTI

SLO: contenimento danno elementi non strutturali (punto 7.3.7.2), gli elementi non portanti risultano essere le tamponature e le parti divisorie (nonché gli elementi ad essi connessi, quali serramenti), che verranno vincolate alla struttura portante.

All'intradosso dei solai non sono previsti impianti caratterizzati da pesi significativi, saranno installati unicamente i corpi illuminanti.

Nel modello di calcolo, a favore di sicurezza viene sottostimato l'effetto membrana svolto dalle nervature dei solai.



SPOSTAMENTI Y (INVILUPPO COND. SLD)

Il dimensionamento e la verifica è stato eseguito utilizzando le sollecitazioni derivanti dalle combinazioni di carico n. 1- 4 – 5 8 -9 (SLU) in quanto caratterizzate da valori maggiori in termini numerici.

Per la verifica dello stato limite di fessurazione in ottemperanza a quanto individuato al punto 4.1.2.2.4.5 delle NTC 2008 sono state prese in considerazione le combinazioni frequenti e q. permanenti.

Tabella 4.1.IV – Criteri di scelta dello stato limite di fessurazione

Gruppi di esigenze	Condizioni ambientali	Combinazione di azioni	Armatura			
			Sensibile		Poco sensibile	
			Stato limite	w_d	Stato limite	w_d
a	Ordinarie	frequente	ap. fessure	$\leq w_2$	ap. fessure	$\leq w_3$
		quasi permanente	ap. fessure	$\leq w_1$	ap. fessure	$\leq w_2$
b	Aggressive	frequente	ap. fessure	$\leq w_1$	ap. fessure	$\leq w_2$
		quasi permanente	decompressione	-	ap. fessure	$\leq w_1$
c	Molto aggressive	frequente	formazione fessure	-	ap. fessure	$\leq w_1$
		quasi permanente	decompressione	-	ap. fessure	$\leq w_1$

w_1, w_2, w_3 sono definiti al § 4.1.2.2.4.1, il valore di calcolo w_d , è definito al § 4.1.2.2.4.6.

e ponendo il limite dell'ampiezza delle fessure pari a
 freq. $w_3 = 0.4 \text{ mm}$
 q. perm. $w_2 = 0.3 \text{ mm}$

FONDAZIONI

Il progetto prevede una interconnessione tra le travi di fondazione da realizzare mediante una piastra in c.a. di connessione posta all'estradosso delle fondazioni

Ai sensi del par. 7.2.5.1 delle nNTC 2008 sono state condotte le verifiche di questo collegamento:

....

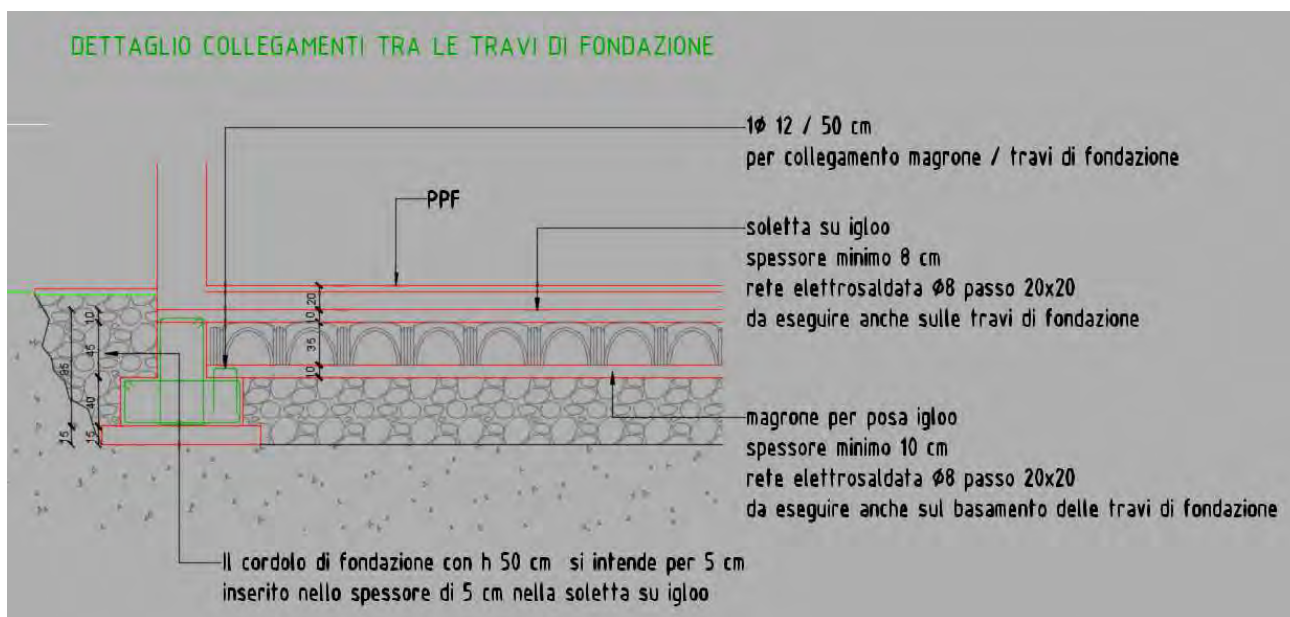
Il requisito si ritiene soddisfatto se le strutture di fondazione sono collegate tra loro da un reticolo di travi, o da una piastra dimensionata in modo adeguato, in grado di assorbire le forze assiali conseguenti.

In assenza di valutazioni più accurate, si possono conservativamente assumere le seguenti azioni assiali:

$\pm 0,4 N_{sd} a_{max} / g$ (per il profilo stratigrafico di tipo C)

dove N_{sd} è il valore medio delle forze verticali agenti sugli elementi collegati, e a_{max} è l'accelerazione orizzontale massima attesa al sito.

In assenza di analisi specifiche della risposta sismica locale l'accelerazione massima attesa al sito può essere valutata con la relazione: $a_{max} = a_g \cdot S$ in cui S è il coefficiente che comprende l'effetto dell'amplificazione stratigrafica (SS) e dell'amplificazione topografica (ST), di cui al § 3.2.3.2, e a_g è l'accelerazione orizzontale massima su sito di riferimento rigido.



$N_{sd} = 17300 \text{ daN}$

$a_{max} = 1.51$

Azione Assiale = 10500 daN

La platea di collegamento risulta avere le seguenti caratteristiche:

spessore minimo 8 cm

armatura minimo: rete diam. 8 maglia 20x20

ampiezza di collegamento per il nodo di collegamento tipico 200 cm

Descrizione : Sezione piastra in C.A.
 Tipo verifica : stati limite - pressoflessione retta.
 Unità di misura generiche: daN; cm; daNcm; daN/cm²; d in mm; deformazioni*1000.
 ferri : diametri in mm; aree in cm².

Simboli:

Vert. = contorno_vertice del CLS; d = diametro;
 S = Sigma (tensioni sui materiali);
 D = Deformazioni x 1000 (epsilon);
 Ve = colonna che indica se la verifica e' soddisfatta;

MATERIALI

Calcestruzzo: Rck = 300. ; fck = 249. ; fcd = 141.1 (.35%)
 Acciaio : Tipo= B450C ; ftk = 5400. ; fyk = 4500. ; ftd = 4695.65 (6.75%)

SEZIONE

L'asse Z e' rivolto verso destra, l'asse Y e' rivolto verso l'alto.

Tipo sezione: RETTANGOLARE

Cls:

Acciaio lento:

vert.	Z	Y	ferro	Z	Y	d[mm]	Af[cm2]
1- 1	-100.	8.	1	97.	7.	8.	.5027
1- 2	100.	8.	2	75.4	7.	8.	.5027
1- 3	100.	0.	3	53.9	7.	8.	.5027
1- 4	-100.	0.	4	32.3	7.	8.	.5027
			5	10.8	7.	8.	.5027
			6	-10.8	7.	8.	.5027
			7	-32.3	7.	8.	.5027
			8	-53.9	7.	8.	.5027
			9	-75.4	7.	8.	.5027
			10	-97.	7.	8.	.5027
			11	97.	3.	8.	.5027
			12	75.4	3.	8.	.5027
			13	53.9	3.	8.	.5027
			14	32.3	3.	8.	.5027
			15	10.8	3.	8.	.5027
			16	-10.8	3.	8.	.5027
			17	-32.3	3.	8.	.5027
			18	-53.9	3.	8.	.5027
			19	-75.4	3.	8.	.5027
			20	-97.	3.	8.	.5027

SOLLECITAZIONI AGENTI

Sforzi normali applicati in y= 5. (baricentro CLS)

Convenzioni: N + trazione; Mz + fib.inferiori tese; My + fib.sinistra tese.

N.	N	Mz	My	Sollecitaz. ultima calcolata
1	10500.	0.	0.	

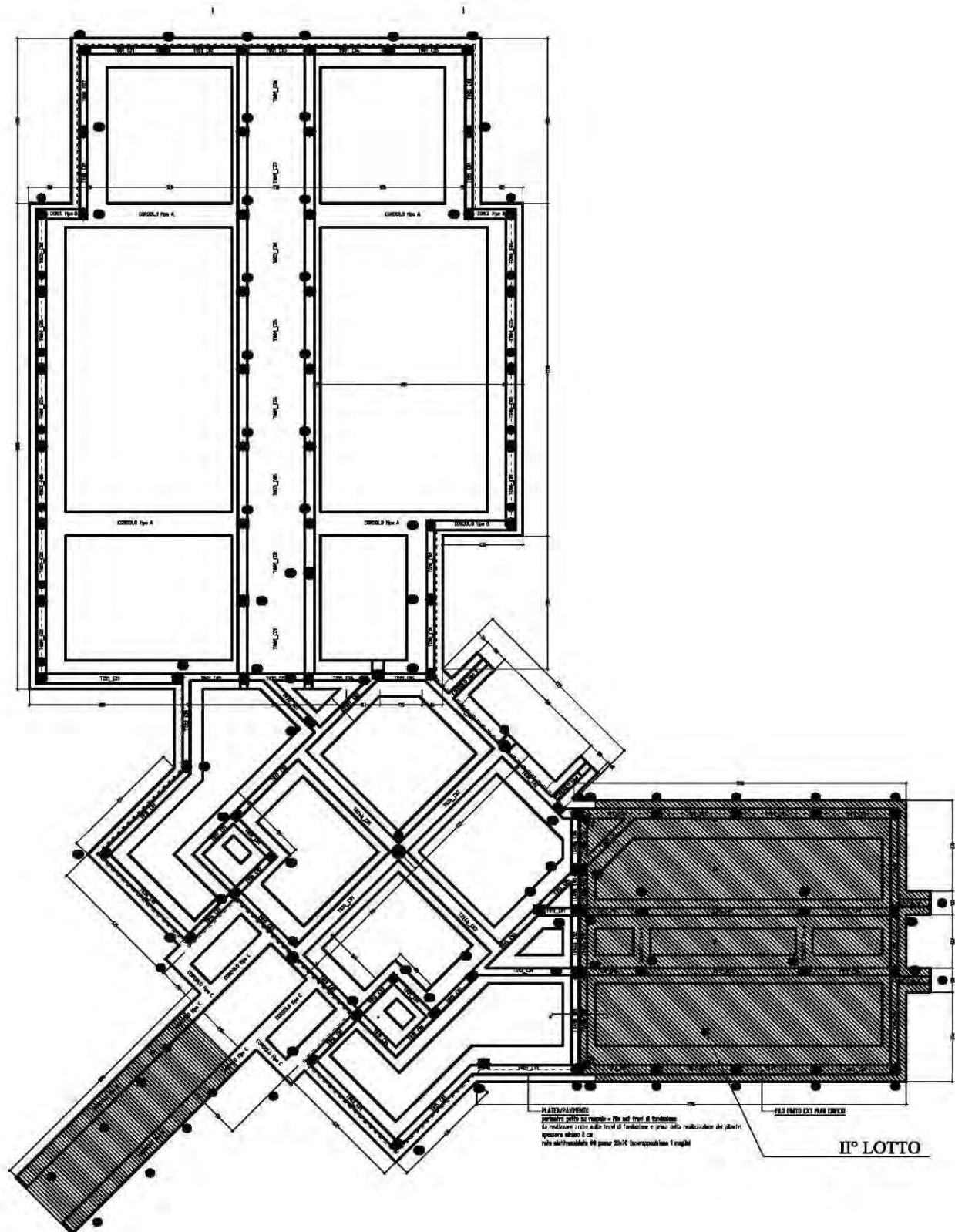
RISULTATI

Piani di equilibrio (eps= muz * y +muy * z + lam):

Sol.	muz	muy	lambda
1.	0.	0.	.00111905819

Deformazioni massime sui materiali:

Cls				Acciaio lento			
sol	vert.	D cls	S cls	Ve	ferro	D ferri	S ferri
1	1- 1	1.1191	0.	si	1.	1.1191	2238.1



VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 1 - Travata T001 (fondazione)
 Metodo di verifica : stati limite (NTC08).
 Duttilit  : bassa con gerarchia.
 Unit  di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.
 Unit  particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferri (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
 gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecud=.2% (limit.elastico)
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS : σ_c (rara)=149.4; σ_c (quasi permanente)=112. ; fbd(esercizio)= 26.9
 ACCIAIO : σ_f (rara)=3600.; Coeff.Omogein.= 15
 FESSURE : wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: 100/30X90/40; A=5500.; Jg=3054924.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A94	3	3	3	0	330.	290.	3.667	1.3	5.	139.681
2	A95	3	3	3	0	330.	290.	3.667	1.5	5.	161.17
3	A96	3	3	3	0	280.	240.	3.111	1.5	5.	161.17
4	A97	3	3	3	0	330.	290.	3.667	1.5	5.	161.17
5	A98	3	3	3	0	330.	290.	3.667	1.3	5.	139.681

CASI DI CARICO DA MODELLO 3D

SLU		
Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	
5.	SLU con SISMAX PRINC16	
8.	SLU FON con SISMAX P16	
9.	SLU FON con SISMAX P16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epscl	Epsac	Mrd	Epscl	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	-485022.	-.005	.023	-3960743.	-.04	.186	2.	.176	8.166	SI
0.	0.	3. 1.	405409.	-.007	.019	3878119.	-.071	.186	2.	.277	9.566	SI
20.	20.	3. 1.	-485297.	-.005	.023	-3960743.	-.04	.186	2.	.176	8.161	SI
255.	255.	3. 2.	-303516.	-.003	.014	-3988658.	-.036	.186	2.	.162	13.14	SI
255.	255.	3. 2.	31346.	0.	.001	7481095.	-.119	.186	2.	.389	238.7	SI
291.	291.	3. 3.	130718.	-.002	.003	7716126.	-.097	.186	2.	.342	59.03	SI
330.	330.	3. 3.	-88666.	-.001	.002	-7818441.	-.056	.186	2.	.231	88.18	SI
330.	330.	3. 3.	130718.	-.002	.003	7716126.	-.097	.186	2.	.342	59.03	SI
> 330.	0.	3. 3.	-278340.	-.002	.007	-7818441.	-.056	.186	2.	.231	28.09	SI
330.	0.	3. 3.	358475.	-.004	.009	7716126.	-.097	.186	2.	.342	21.53	SI
495.	165.	3. 1.	41448.	-.001	.002	3878119.	-.071	.186	2.	.277	93.57	SI
570.	240.	3. 2.	-256050.	-.002	.012	-3988658.	-.036	.186	2.	.162	15.58	SI
570.	240.	3. 2.	308341.	-.004	.008	7481095.	-.119	.186	2.	.389	24.26	SI
621.	291.	3. 3.	537790.	-.006	.013	7716126.	-.097	.186	2.	.342	14.35	SI
660.	330.	3. 3.	-263622.	-.002	.006	-7818441.	-.056	.186	2.	.231	29.66	SI
660.	330.	3. 3.	537790.	-.006	.013	7716126.	-.097	.186	2.	.342	14.35	SI
> 660.	0.	3. 3.	-107675.	-.001	.003	-7818441.	-.056	.186	2.	.231	72.61	SI
660.	0.	3. 3.	554494.	-.007	.013	7716126.	-.097	.186	2.	.342	13.92	SI
719.	59.	3. 2.	-98488.	-.001	.005	-3988658.	-.036	.186	2.	.162	40.5	SI
719.	59.	3. 2.	469897.	-.007	.012	7481095.	-.119	.186	2.	.389	15.92	SI
750.	90.	3. 1.	347994.	-.006	.017	3878119.	-.071	.186	2.	.277	11.14	SI
817.	157.	3. 1.	-24986.	0.	.001	-3960743.	-.04	.186	2.	.176	158.5	SI
940.	280.	3. 3.	-86739.	-.001	.002	-7818441.	-.056	.186	2.	.231	90.14	SI
940.	280.	3. 3.	547252.	-.006	.013	7716126.	-.097	.186	2.	.342	14.1	SI
> 940.	0.	3. 3.	-287700.	-.002	.007	-7818441.	-.056	.186	2.	.231	27.18	SI
940.	0.	3. 3.	545720.	-.006	.013	7716126.	-.097	.186	2.	.342	14.14	SI
999.	59.	3. 2.	-281862.	-.002	.013	-3988658.	-.036	.186	2.	.162	14.15	SI
999.	59.	3. 2.	449518.	-.006	.011	7481095.	-.119	.186	2.	.389	16.64	SI
1105.	165.	3. 1.	33004.	-.001	.002	3878119.	-.071	.186	2.	.277	117.5	SI
1270.	330.	3. 3.	-294243.	-.002	.007	-7818441.	-.056	.186	2.	.231	26.57	SI
1270.	330.	3. 3.	387592.	-.005	.009	7716126.	-.097	.186	2.	.342	19.91	SI
> 1270.	0.	3. 3.	-88667.	-.001	.002	-7818441.	-.056	.186	2.	.231	88.18	SI
1270.	0.	3. 3.	121108.	-.001	.003	7716126.	-.097	.186	2.	.342	63.71	SI
1329.	59.	3. 2.	-263173.	-.002	.012	-3988658.	-.036	.186	2.	.162	15.16	SI

1329.	59.	3.	2.	70447.	-.001	.002	7481095.	-.119	.186	2.	.389	106.2	SI
1345.	75.	3.	2.	39547.	-.001	.001	7481095.	-.119	.186	2.	.389	189.2	SI
1525.	255.	3.	1.	-490940.	-.005	.023	-3960743.	-.04	.186	2.	.176	8.068	SI
1561.	291.	3.	1.	413729.	-.007	.02	3878119.	-.071	.186	2.	.277	9.374	SI
1600.	330.	3.	1.	-484729.	-.005	.023	-3960743.	-.04	.186	2.	.176	8.171	SI
1600.	330.	3.	1.	413729.	-.007	.02	3878119.	-.071	.186	2.	.277	9.374	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-4641.	8203.	57146.	51336.	1.01	15.	2.5	SI
90.	90.	3.	-2094.	10534.	57146.	51336.	1.01	15.	2.5	SI
330.	330.	3.	5510.	8203.	57146.	51336.	1.01	15.	2.5	SI
> 330.	0.	3.	-4495.	8203.	57146.	51336.	1.01	15.	2.5	SI
330.	0.	3.	129.	8203.	57146.	51336.	1.01	15.	2.5	SI
389.	59.	3.	-3188.	10534.	57146.	51336.	1.01	15.	2.5	SI
660.	330.	3.	6240.	8203.	57146.	51336.	1.01	15.	2.5	SI
> 660.	0.	3.	-5061.	8203.	57146.	51336.	1.01	15.	2.5	SI
660.	0.	3.	190.	8203.	57146.	51336.	1.01	15.	2.5	SI
719.	59.	3.	-3583.	10534.	57146.	51336.	1.01	15.	2.5	SI
940.	280.	3.	-36.	8203.	57146.	51336.	1.01	15.	2.5	SI
940.	280.	3.	5145.	8203.	57146.	51336.	1.01	15.	2.5	SI
> 940.	0.	3.	-6156.	8203.	57146.	51336.	1.01	15.	2.5	SI
940.	0.	3.	24.	8203.	57146.	51336.	1.01	15.	2.5	SI
999.	59.	3.	-4309.	10534.	57146.	51336.	1.01	15.	2.5	SI
1270.	330.	3.	-125.	8203.	57146.	51336.	1.01	15.	2.5	SI
1270.	330.	3.	4566.	8203.	57146.	51336.	1.01	15.	2.5	SI
>1270.	0.	3.	-5440.	8203.	57146.	51336.	1.01	15.	2.5	SI
1290.	20.	3.	-4842.	10534.	57146.	51336.	1.01	15.	2.5	SI
1600.	330.	3.	4667.	8203.	57146.	51336.	1.01	15.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
20.	20.	3.	1.	-94374.	-1.3	93.1	12.32	7.5	.0027	12.17	.003	SI
39.	39.	3.	1.	-147139.	-2.	145.2	12.32	7.5	.0041	12.17	.005	SI
59.	59.	3.	1.	-185358.	-2.5	182.9	12.32	7.5	.0052	12.17	.006	SI
165.	165.	3.	1.	-264946.	-3.6	261.4	12.32	7.5	.0075	12.17	.009	SI
330.	330.	3.	3.	94174.	-1.6	47.7	24.63	7.5	.0014	15.07	.002	SI
> 330.	0.	3.	3.	88260.	-1.5	44.7	24.63	7.5	.0013	15.07	.002	SI
495.	165.	3.	1.	-147437.	-2.	145.4	12.32	7.5	.0042	12.17	.005	SI
660.	330.	3.	3.	239533.	-4.	121.4	24.63	7.5	.0035	15.07	.005	SI
> 660.	0.	3.	3.	332198.	-5.6	168.3	24.63	7.5	.0048	15.07	.007	SI
783.	123.	3.	1.	90907.	-2.2	91.5	12.32	7.5	.0026	22.31	.006	SI
850.	190.	3.	1.	121630.	-3.	122.5	12.32	7.5	.0035	22.31	.008	SI
940.	280.	3.	3.	340709.	-5.7	172.6	24.63	7.5	.0049	15.07	.007	SI
> 940.	0.	3.	3.	229441.	-3.9	116.3	24.63	7.5	.0033	15.07	.005	SI
1105.	165.	3.	1.	-148034.	-2.	146.	12.32	7.5	.0042	12.17	.005	SI
1270.	330.	3.	3.	96429.	-1.6	48.9	24.63	7.5	.0014	15.07	.002	SI
>1270.	0.	3.	3.	92806.	-1.6	47.	24.63	7.5	.0013	15.07	.002	SI
1435.	165.	3.	1.	-258574.	-3.5	255.1	12.32	7.5	.0073	12.17	.009	SI
1600.	330.	3.	1.	-27492.	-4	27.1	12.32	7.5	.0008	12.17	.001	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
20.	20.	3.	1.	-66314.	-.9	65.4	12.32	7.5	.0019	12.17	.002	SI
39.	39.	3.	1.	-102065.	-1.4	100.7	12.32	7.5	.0029	12.17	.004	SI
59.	59.	3.	1.	-128030.	-1.8	126.3	12.32	7.5	.0036	12.17	.004	SI
165.	165.	3.	1.	-182975.	-2.5	180.5	12.32	7.5	.0052	12.17	.006	SI
330.	330.	3.	3.	55459.	-.9	28.1	24.63	7.5	.0008	15.07	.001	SI
> 330.	0.	3.	3.	50096.	-.8	25.4	24.63	7.5	.0007	15.07	.001	SI
495.	165.	3.	1.	-106521.	-1.5	105.1	12.32	7.5	.003	12.17	.004	SI
660.	330.	3.	3.	157642.	-2.6	79.9	24.63	7.5	.0023	15.07	.003	SI
> 660.	0.	3.	3.	245600.	-4.1	124.4	24.63	7.5	.0036	15.07	.005	SI
783.	123.	3.	1.	80440.	-2.	81.	12.32	7.5	.0023	22.31	.005	SI
850.	190.	3.	1.	101886.	-2.5	102.6	12.32	7.5	.0029	22.31	.007	SI
940.	280.	3.	3.	252815.	-4.2	128.1	24.63	7.5	.0037	15.07	.006	SI
> 940.	0.	3.	3.	149123.	-2.5	75.6	24.63	7.5	.0022	15.07	.003	SI
1105.	165.	3.	1.	-107030.	-1.5	105.6	12.32	7.5	.003	12.17	.004	SI
1270.	330.	3.	3.	57047.	-1.	28.9	24.63	7.5	.0008	15.07	.001	SI
>1270.	0.	3.	3.	54107.	-.9	27.4	24.63	7.5	.0008	15.07	.001	SI
1435.	165.	3.	1.	-177646.	-2.4	175.2	12.32	7.5	.005	12.17	.006	SI
1600.	330.	3.	1.	-18774.	-.3	18.5	12.32	7.5	.0005	12.17	.001	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	Wd	Ve	
20.	20.	3.	1.	-59006.	-.8	58.2	12.32	7.5	.0017	12.17	.002	SI
39.	39.	3.	1.	-90466.	-1.2	89.2	12.32	7.5	.0025	12.17	.003	SI
59.	59.	3.	1.	-113350.	-1.6	111.8	12.32	7.5	.0032	12.17	.004	SI
165.	165.	3.	1.	-162200.	-2.2	160.	12.32	7.5	.0046	12.17	.006	SI
330.	330.	3.	3.	45262.	-.8	22.9	24.63	7.5	.0007	15.07	.001	SI
> 330.	0.	3.	3.	40067.	-.7	20.3	24.63	7.5	.0006	15.07	.001	SI
495.	165.	3.	1.	-96092.	-1.3	94.8	12.32	7.5	.0027	12.17	.003	SI
660.	330.	3.	3.	137084.	-2.3	69.5	24.63	7.5	.002	15.07	.003	SI
> 660.	0.	3.	3.	223410.	-3.8	113.2	24.63	7.5	.0032	15.07	.005	SI
783.	123.	3.	1.	77635.	-1.9	78.2	12.32	7.5	.0022	22.31	.005	SI

850.	190.	3.	1.	96707.	-2.4	97.4	12.32	7.5	.0028	22.31	.006	SI
940.	280.	3.	3.	230256.	-3.9	116.7	24.63	7.5	.0033	15.07	.005	SI
> 940.	0.	3.	3.	129010.	-2.2	65.4	24.63	7.5	.0019	15.07	.003	SI
1105.	165.	3.	1.	-96574.	-1.3	95.3	12.32	7.5	.0027	12.17	.003	SI
1270.	330.	3.	3.	46675.	-8	23.7	24.63	7.5	.0007	15.07	.001	SI
>1270.	0.	3.	3.	43920.	-7	22.3	24.63	7.5	.0006	15.07	.001	SI
1435.	165.	3.	1.	-157165.	-2.2	155.	12.32	7.5	.0044	12.17	.005	SI
1600.	330.	3.	1.	-16398.	-2	16.2	12.32	7.5	.0005	12.17	.001	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl - Acl=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	24.63	.448	12.32	.224	8d14	12.32	.224	8d14
2	36.95	.672	12.32	.224	8d14	24.63	.448	8d14 +8d14
3	49.26	.896	24.63	.448	8d14 +8d14	24.63	.448	8d14 +8d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 2 - Travata T002 (fondazione)
 Metodo di verifica : stati limite (NTC08).
 Dutilita' : bassa con gerarchia.
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
 gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecud=.2% (limit.elastico)
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS : σ_c (rara)=149.4; σ_c (quasi permanente)=112. ; fbd(esercizio)= 26.9
 ACCIAIO : σ_f (rara)=3600.; Coeff.Omogein.= 15
 FESSURE : wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: 100/30x90/40; A=5500.; Jg=3054924.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A152	3	3	3	0	570.	535.	6.333	1.3	5.	139.681
2	A153	3	3	3	0	275.	240.	3.056	1.5	5.	161.17
3	A154	3	3	3	0	270.	240.	3.	1.5	5.	161.17
4	A155	3	3	3	0	290.	255.	3.22	1.5	5.	161.17
5	A156	3	3	3	0	220.	185.	2.446	1.3	5.	139.681

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	16
5.	SLU con SISMAX PRINC16	16
8.	SLU FON con SISMAX P16	16
9.	SLU FON con SISMAX P16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-560104.	-.005	.026	-3960743.	-.04	.186	2.	.176	7.071	SI
0.	0.	3.	1.	50103.	-.001	.002	3878119.	-.071	.186	2.	.277	77.4	SI
54.	54.	3.	1.	9111.	0.	0.	3878119.	-.071	.186	2.	.277	425.7	SI
220.	220.	3.	1.	-879203.	-.009	.041	-3960743.	-.04	.186	2.	.176	4.505	SI
437.	437.	3.	2.	-636517.	-.006	.03	-3988658.	-.036	.186	2.	.162	6.266	SI
480.	480.	3.	2.	21890.	0.	.001	7481095.	-.119	.186	2.	.389	341.8	SI
511.	511.	3.	3.	128720.	-.002	.003	7716126.	-.097	.186	2.	.342	59.95	SI
531.	531.	3.	3.	197978.	-.002	.005	7716126.	-.097	.186	2.	.342	38.98	SI
570.	570.	3.	3.	-180706.	-.001	.004	-7818441.	-.056	.186	2.	.231	43.27	SI
570.	570.	3.	3.	197978.	-.002	.005	7716126.	-.097	.186	2.	.342	38.98	SI
> 570.	0.	3.	3.	-69636.	0.	.002	-7818441.	-.056	.186	2.	.231	112.3	SI
570.	0.	3.	3.	268213.	-.003	.006	7716126.	-.097	.186	2.	.342	28.77	SI
645.	75.	3.	2.	-69171.	-.001	.003	-3988658.	-.036	.186	2.	.162	57.66	SI

645.	75.	3.	2.	170536.	-.002	.004	7481095.	-.119	.186	2.	.389	43.87	SI
755.	185.	3.	1.	221128.	-.004	.011	3878119.	-.071	.186	2.	.277	17.54	SI
806.	236.	3.	3.	421793.	-.005	.01	7716126.	-.097	.186	2.	.342	18.29	SI
845.	275.	3.	3.	-14203.	0.	0.	-7818441.	-.056	.186	2.	.231	550.5	SI
845.	275.	3.	3.	421793.	-.005	.01	7716126.	-.097	.186	2.	.342	18.29	SI
> 845.	0.	3.	3.	657826.	-.008	.016	7716126.	-.097	.186	2.	.342	11.73	SI
917.	72.	3.	1.	467465.	-.008	.022	3878119.	-.071	.186	2.	.277	8.296	SI
995.	150.	3.	1.	184946.	-.003	.009	3878119.	-.071	.186	2.	.277	20.97	SI
1043.	198.	3.	2.	278519.	-.004	.007	7481095.	-.119	.186	2.	.389	26.86	SI
1115.	270.	3.	3.	379929.	-.004	.009	7716126.	-.097	.186	2.	.342	20.31	SI
> 1115.	0.	3.	3.	-92950.	-.001	.002	-7818441.	-.056	.186	2.	.231	84.12	SI
1115.	0.	3.	3.	284475.	-.003	.007	7716126.	-.097	.186	2.	.342	27.12	SI
1187.	72.	3.	2.	-174266.	-.002	.008	-3988658.	-.036	.186	2.	.162	22.89	SI
1187.	72.	3.	2.	154036.	-.002	.004	7481095.	-.119	.186	2.	.389	48.57	SI
1242.	127.	3.	1.	-189717.	-.002	.009	-3960743.	-.04	.186	2.	.176	20.88	SI
1278.	163.	3.	1.	18672.	0.	.001	3878119.	-.071	.186	2.	.277	207.7	SI
1366.	251.	3.	3.	335931.	-.004	.008	7716126.	-.097	.186	2.	.342	22.97	SI
1405.	290.	3.	3.	-72446.	0.	.002	-7818441.	-.056	.186	2.	.231	107.9	SI
1405.	290.	3.	3.	335931.	-.004	.008	7716126.	-.097	.186	2.	.342	22.97	SI
> 1405.	0.	3.	3.	557500.	-.007	.013	7716126.	-.097	.186	2.	.342	13.84	SI
1464.	59.	3.	2.	457589.	-.006	.011	7481095.	-.119	.186	2.	.389	16.35	SI
1479.	75.	3.	1.	392043.	-.007	.019	3878119.	-.071	.186	2.	.277	9.892	SI
1535.	130.	3.	1.	247017.	-.004	.012	3878119.	-.071	.186	2.	.277	15.7	SI
1586.	181.	3.	1.	394997.	-.007	.019	3878119.	-.071	.186	2.	.277	9.818	SI
1625.	220.	3.	1.	394997.	-.007	.019	3878119.	-.071	.186	2.	.277	9.818	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-6021.	8203.	57146.	51336.	1.01	15.	2.5	SI
90.	90.	3.	-3168.	10534.	57146.	51336.	1.01	15.	2.5	SI
570.	570.	3.	6110.	8203.	57146.	51336.	1.01	15.	2.5	SI
> 570.	0.	3.	-3046.	8203.	57146.	51336.	1.01	15.	2.5	SI
629.	59.	3.	-2200.	10534.	57146.	51336.	1.01	15.	2.5	SI
845.	275.	3.	5426.	8203.	57146.	51336.	1.01	15.	2.5	SI
> 845.	0.	3.	-6583.	8203.	57146.	51336.	1.01	15.	2.5	SI
884.	39.	3.	-5079.	10534.	57146.	51336.	1.01	15.	2.5	SI
1115.	270.	3.	4423.	8203.	57146.	51336.	1.01	15.	2.5	SI
> 1115.	0.	3.	-5691.	8203.	57146.	51336.	1.01	15.	2.5	SI
1187.	72.	3.	-2710.	10534.	57146.	51336.	1.01	15.	2.5	SI
1405.	290.	3.	6857.	8203.	57146.	51336.	1.01	15.	2.5	SI
> 1405.	0.	3.	-5608.	8203.	57146.	51336.	1.01	15.	2.5	SI
1425.	20.	3.	-4716.	10534.	57146.	51336.	1.01	15.	2.5	SI
1625.	220.	3.	4021.	8203.	57146.	51336.	1.01	15.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-206216.	-2.8	203.4	12.32	7.5	.0058	12.17	.007	SI
220.	220.	3.	1.	-637261.	-8.7	628.7	12.32	7.5	.018	12.17	.022	SI
570.	570.	3.	3.	82763.	-1.4	41.9	24.63	7.5	.0012	15.07	.002	SI
> 570.	0.	3.	3.	143402.	-2.4	72.7	24.63	7.5	.0021	15.07	.003	SI
692.	122.	3.	1.	8693.	-.2	8.8	12.32	7.5	.0003	22.31	.001	SI
845.	275.	3.	3.	295938.	-5.	150.	24.63	7.5	.0043	15.07	.006	SI
> 845.	0.	3.	3.	473119.	-8.	239.7	24.63	7.5	.0068	15.07	.01	SI
917.	72.	3.	1.	206836.	-5.1	208.3	12.32	7.5	.006	22.31	.013	SI
995.	150.	3.	1.	86490.	-2.1	87.1	12.32	7.5	.0025	22.31	.006	SI
1115.	270.	3.	3.	246266.	-4.1	124.8	24.63	7.5	.0036	15.07	.005	SI
> 1115.	0.	3.	3.	132770.	-2.2	67.3	24.63	7.5	.0019	15.07	.003	SI
1242.	127.	3.	1.	-135130.	-1.8	133.3	12.32	7.5	.0038	12.17	.005	SI
1405.	290.	3.	3.	237884.	-4.	120.5	24.63	7.5	.0034	15.07	.005	SI
> 1405.	0.	3.	3.	402604.	-6.8	204.	24.63	7.5	.0058	15.07	.009	SI
1535.	130.	3.	1.	146614.	-3.6	147.6	12.32	7.5	.0042	22.31	.009	SI
1625.	220.	3.	1.	273382.	-6.8	275.3	12.32	7.5	.0079	22.31	.018	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-207378.	-2.8	204.6	12.32	7.5	.0058	12.17	.007	SI
220.	220.	3.	1.	-547303.	-7.5	539.9	12.32	7.5	.0154	12.17	.019	SI
570.	570.	3.	3.	70660.	-1.2	35.8	24.63	7.5	.001	15.07	.002	SI
> 570.	0.	3.	3.	111406.	-1.9	56.5	24.63	7.5	.0016	15.07	.002	SI
692.	122.	3.	1.	-63.	0.	.1	12.32	7.5	0.	12.17	0.	SI
845.	275.	3.	3.	238247.	-4.	120.7	24.63	7.5	.0034	15.07	.005	SI
> 845.	0.	3.	3.	411870.	-6.9	208.7	24.63	7.5	.006	15.07	.009	SI
917.	72.	3.	1.	191808.	-4.7	193.2	12.32	7.5	.0055	22.31	.012	SI
995.	150.	3.	1.	93900.	-2.3	94.6	12.32	7.5	.0027	22.31	.006	SI
1115.	270.	3.	3.	231400.	-3.9	117.3	24.63	7.5	.0034	15.07	.005	SI
> 1115.	0.	3.	3.	130217.	-2.2	66.	24.63	7.5	.0019	15.07	.003	SI
1242.	127.	3.	1.	-104502.	-1.4	103.1	12.32	7.5	.0029	12.17	.004	SI
1405.	290.	3.	3.	180609.	-3.	91.5	24.63	7.5	.0026	15.07	.004	SI
> 1405.	0.	3.	3.	345951.	-5.8	175.3	24.63	7.5	.005	15.07	.008	SI
1535.	130.	3.	1.	111648.	-2.8	112.4	12.32	7.5	.0032	22.31	.007	SI
1625.	220.	3.	1.	189523.	-4.7	190.9	12.32	7.5	.0055	22.31	.012	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
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> 0.	0.	3.	1.	-206430.	-2.8	203.6	12.32	7.5	.0058	12.17	.007	SI
220.	220.	3.	1.	-523179.	-7.2	516.1	12.32	7.5	.0147	12.17	.018	SI
570.	570.	3.	3.	67187.	-1.1	34.	24.63	7.5	.001	15.07	.001	SI
> 570.	0.	3.	3.	102926.	-1.7	52.2	24.63	7.5	.0015	15.07	.002	SI
692.	122.	3.	1.	-2279.	0.	2.2	12.32	7.5	.0001	12.17	0.	SI
845.	275.	3.	3.	223102.	-3.7	113.	24.63	7.5	.0032	15.07	.005	SI
> 845.	0.	3.	3.	394999.	-6.6	200.1	24.63	7.5	.0057	15.07	.009	SI
917.	72.	3.	1.	187161.	-4.6	188.5	12.32	7.5	.0054	22.31	.012	SI
995.	150.	3.	1.	95114.	-2.4	95.8	12.32	7.5	.0027	22.31	.006	SI
1115.	270.	3.	3.	226476.	-3.8	114.8	24.63	7.5	.0033	15.07	.005	SI
>1115.	0.	3.	3.	128802.	-2.2	65.3	24.63	7.5	.0019	15.07	.003	SI
1242.	127.	3.	1.	-96580.	-1.3	95.3	12.32	7.5	.0027	12.17	.003	SI
1405.	290.	3.	3.	166210.	-2.8	84.2	24.63	7.5	.0024	15.07	.004	SI
>1405.	0.	3.	3.	330592.	-5.6	167.5	24.63	7.5	.0048	15.07	.007	SI
1553.	148.	3.	1.	102097.	-2.5	102.8	12.32	7.5	.0029	22.31	.007	SI
1625.	220.	3.	1.	168430.	-4.2	169.6	12.32	7.5	.0048	22.31	.011	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	24.63	.448	12.32	.224	8d14	12.32	.224	8d14
2	36.95	.672	12.32	.224	8d14	24.63	.448	8d14 +8d14
3	49.26	.896	24.63	.448	8d14 +8d14	24.63	.448	8d14 +8d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 3 - Travata T003 (fondazione)
Metodo di verifica : stati limite (NTC08).
Duttilita' : bassa con gerarchia.
Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.
Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
Copriferrì (assi) : longitudinale= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecd=.2% (limit.elastico)
ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
CLS : σ_c (rara)=149.4; σ_c (quasi permanente)=112. ; fbd(esercizio)= 26.9
ACCIAIO : σ_f (rara)=3600. ; Coeff.Omogein.= 15
FESSURE : wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: 100/40x90/40; A=6000.; Jg=3650000.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A99	3	3	3	0	323.	273.	3.593	1.3	5.	145.157
2	A100	3	3	3	0	323.	273.	3.593	1.5	5.	167.489
3	A101	3	3	3	0	323.	273.	3.593	1.5	5.	167.489
4	A102	3	3	3	0	323.	273.	3.593	1.5	5.	167.489
5	A103	3	3	3	0	323.	273.	3.593	1.5	5.	167.489
6	A104	3	3	3	0	323.	273.	3.593	1.3	5.	145.157

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	
5.	SLU con SISMAX PRINC16	
8.	SLU FON con SISMAX P16	
9.	SLU FON con SISMAX P16	

Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epscl	Epsac	Mrd	Epscl	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-394912.	-.004	.019	-3960743.	-.04	.186	2.	.176	10.03	SI
0.	0.	3.	1.	198979.	-.003	.009	3894459.	-.062	.186	2.	.25	19.57	SI
77.	77.	3.	1.	-398911.	-.004	.019	-3960743.	-.04	.186	2.	.176	9.929	SI

126.	126.	3.	1.	44252.	-.001	.002	3894459.	-.062	.186	2.	.25	88.01	SI
246.	246.	3.	2.	-119367.	-.001	.006	-3988658.	-.036	.186	2.	.162	33.42	SI
246.	246.	3.	2.	481999.	-.006	.012	7533488.	-.101	.186	2.	.352	15.63	SI
284.	284.	3.	3.	851874.	-.009	.02	7724908.	-.086	.186	2.	.315	9.068	SI
323.	323.	3.	3.	851874.	-.009	.02	7724908.	-.086	.186	2.	.315	9.068	SI
> 323.	0.	3.	3.	777532.	-.008	.019	7724908.	-.086	.186	2.	.315	9.935	SI
348.	25.	3.	3.	-43283.	0.	.001	-7818441.	-.056	.186	2.	.231	180.6	SI
449.	126.	3.	1.	-107026.	-.001	.005	-3960743.	-.04	.186	2.	.176	37.01	SI
570.	246.	3.	2.	-31698.	0.	.001	-3988658.	-.036	.186	2.	.162	125.8	SI
570.	246.	3.	2.	358219.	-.004	.009	7533488.	-.101	.186	2.	.352	21.03	SI
583.	259.	3.	2.	-18982.	0.	.001	-3988658.	-.036	.186	2.	.162	210.1	SI
647.	323.	3.	3.	658211.	-.007	.016	7724908.	-.086	.186	2.	.315	11.74	SI
> 647.	0.	3.	3.	-11247.	0.	0.	-7818441.	-.056	.186	2.	.231	695.1	SI
647.	0.	3.	3.	642532.	-.007	.015	7724908.	-.086	.186	2.	.315	12.02	SI
711.	64.	3.	2.	-127870.	-.001	.006	-3988658.	-.036	.186	2.	.162	31.19	SI
711.	64.	3.	2.	443129.	-.005	.011	7533488.	-.101	.186	2.	.352	17.	SI
808.	162.	3.	1.	-199523.	-.002	.009	-3960743.	-.04	.186	2.	.176	19.85	SI
970.	323.	3.	3.	-23177.	0.	.001	-7818441.	-.056	.186	2.	.231	337.3	SI
970.	323.	3.	3.	554426.	-.006	.013	7724908.	-.086	.186	2.	.315	13.93	SI
> 970.	0.	3.	3.	-26461.	0.	.001	-7818441.	-.056	.186	2.	.231	295.5	SI
970.	0.	3.	3.	559672.	-.006	.013	7724908.	-.086	.186	2.	.315	13.8	SI
1034.	64.	3.	2.	-151929.	-.001	.007	-3988658.	-.036	.186	2.	.162	26.25	SI
1034.	64.	3.	2.	379340.	-.005	.009	7533488.	-.101	.186	2.	.352	19.86	SI
1132.	162.	3.	1.	-226686.	-.002	.011	-3960743.	-.04	.186	2.	.176	17.47	SI
1254.	284.	3.	3.	575439.	-.006	.014	7724908.	-.086	.186	2.	.315	13.42	SI
1293.	323.	3.	3.	-7693.	0.	0.	-7818441.	-.056	.186	2.	.231	1016.	SI
1293.	323.	3.	3.	575439.	-.006	.014	7724908.	-.086	.186	2.	.315	13.42	SI
> 1293.	0.	3.	3.	592566.	-.006	.014	7724908.	-.086	.186	2.	.315	13.04	SI
1318.	25.	3.	3.	-61024.	0.	.001	-7818441.	-.056	.186	2.	.231	128.1	SI
1357.	64.	3.	2.	-129377.	-.001	.006	-3988658.	-.036	.186	2.	.162	30.83	SI
1357.	64.	3.	2.	417818.	-.005	.01	7533488.	-.101	.186	2.	.352	18.03	SI
1455.	162.	3.	1.	-163386.	-.002	.008	-3960743.	-.04	.186	2.	.176	24.24	SI
1578.	284.	3.	3.	607515.	-.006	.015	7724908.	-.086	.186	2.	.315	12.72	SI
1592.	298.	3.	3.	-54163.	0.	.001	-7818441.	-.056	.186	2.	.231	144.4	SI
1617.	323.	3.	3.	607515.	-.006	.015	7724908.	-.086	.186	2.	.315	12.72	SI
> 1617.	0.	3.	3.	-12216.	0.	0.	-7818441.	-.056	.186	2.	.231	640.	SI
1617.	0.	3.	3.	650030.	-.007	.016	7724908.	-.086	.186	2.	.315	11.88	SI
1681.	64.	3.	2.	-175990.	-.002	.008	-3988658.	-.036	.186	2.	.162	22.66	SI
1681.	64.	3.	2.	494228.	-.006	.012	7533488.	-.101	.186	2.	.352	15.24	SI
1850.	233.	3.	1.	-283601.	-.003	.013	-3960743.	-.04	.186	2.	.176	13.97	SI
1901.	284.	3.	1.	391926.	-.006	.019	3894459.	-.062	.186	2.	.25	9.937	SI
1940.	323.	3.	1.	-269140.	-.003	.013	-3960743.	-.04	.186	2.	.176	14.72	SI
1940.	323.	3.	1.	391926.	-.006	.019	3894459.	-.062	.186	2.	.25	9.937	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-3501.	10937.	76194.	51336.	1.01	15.	2.5	SI
90.	90.	3.	-1073.	12761.	76194.	51336.	1.01	15.	2.5	SI
323.	323.	3.	10813.	10937.	76194.	51336.	1.01	15.	2.5	SI
> 323.	0.	3.	-9475.	10937.	76194.	51336.	1.01	15.	2.5	SI
387.	64.	3.	-5991.	12761.	76194.	51336.	1.01	15.	2.5	SI
647.	323.	3.	9125.	10937.	76194.	51336.	1.01	15.	2.5	SI
> 647.	0.	3.	-10115.	10937.	76194.	51336.	1.01	15.	2.5	SI
711.	64.	3.	-6228.	12761.	76194.	51336.	1.01	15.	2.5	SI
970.	323.	3.	9610.	10937.	76194.	51336.	1.01	15.	2.5	SI
> 970.	0.	3.	-9802.	10937.	76194.	51336.	1.01	15.	2.5	SI
1034.	64.	3.	-5881.	12761.	76194.	51336.	1.01	15.	2.5	SI
1293.	323.	3.	9839.	10937.	76194.	51336.	1.01	15.	2.5	SI
> 1293.	0.	3.	-9494.	10937.	76194.	51336.	1.01	15.	2.5	SI
1357.	64.	3.	-5659.	12761.	76194.	51336.	1.01	15.	2.5	SI
1617.	323.	3.	9362.	10937.	76194.	51336.	1.01	15.	2.5	SI
> 1617.	0.	3.	-10106.	10937.	76194.	51336.	1.01	15.	2.5	SI
1642.	25.	3.	-8721.	12761.	76194.	51336.	1.01	15.	2.5	SI
1940.	323.	3.	6631.	10937.	76194.	51336.	1.01	15.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-119563.	-1.6	117.9	12.32	7.5	.0034	13.62	.005	SI
90.	90.	3.	1.	-235878.	-3.2	232.7	12.32	7.5	.0066	13.62	.009	SI
323.	323.	3.	3.	609540.	-9.1	308.3	24.63	7.5	.0088	15.07	.013	SI
> 323.	0.	3.	3.	556655.	-8.3	281.6	24.63	7.5	.008	15.07	.012	SI
485.	162.	3.	1.	-27574.	-.4	27.2	12.32	7.5	.0008	13.62	.001	SI
647.	323.	3.	3.	469790.	-7.	237.6	24.63	7.5	.0068	15.07	.01	SI
> 647.	0.	3.	3.	458763.	-6.8	232.	24.63	7.5	.0066	15.07	.01	SI
808.	162.	3.	1.	-143620.	-2.	141.7	12.32	7.5	.004	13.62	.006	SI
970.	323.	3.	3.	396719.	-5.9	200.7	24.63	7.5	.0057	15.07	.009	SI
> 970.	0.	3.	3.	400456.	-6.	202.5	24.63	7.5	.0058	15.07	.009	SI
1132.	162.	3.	1.	-161719.	-2.2	159.5	12.32	7.5	.0046	13.62	.006	SI
1293.	323.	3.	3.	413527.	-6.1	209.2	24.63	7.5	.006	15.07	.009	SI
> 1293.	0.	3.	3.	425949.	-6.3	215.4	24.63	7.5	.0062	15.07	.009	SI
1455.	162.	3.	1.	-113800.	-1.6	112.3	12.32	7.5	.0032	13.62	.004	SI
1617.	323.	3.	3.	438967.	-6.5	222.	24.63	7.5	.0063	15.07	.01	SI
> 1617.	0.	3.	3.	470646.	-7.	238.	24.63	7.5	.0068	15.07	.01	SI
1814.	197.	3.	1.	-198925.	-2.7	196.2	12.32	7.5	.0056	13.62	.008	SI
1940.	323.	3.	1.	113682.	-2.5	114.	12.32	7.5	.0033	22.31	.007	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	-84301.	-1.2	83.2	12.32	7.5	.0024	13.62	.003	SI
90.	90.	3. 1.	-187044.	-2.6	184.5	12.32	7.5	.0053	13.62	.007	SI
323.	323.	3. 3.	504871.	-7.5	255.4	24.63	7.5	.0073	15.07	.011	SI
> 323.	0.	3. 3.	461690.	-6.9	233.5	24.63	7.5	.0067	15.07	.01	SI
485.	162.	3. 1.	-25302.	-.3	25.	12.32	7.5	.0007	13.62	.001	SI
647.	323.	3. 3.	382930.	-5.7	193.7	24.63	7.5	.0055	15.07	.008	SI
> 647.	0.	3. 3.	374193.	-5.6	189.3	24.63	7.5	.0054	15.07	.008	SI
808.	162.	3. 1.	-121030.	-1.7	119.4	12.32	7.5	.0034	13.62	.005	SI
970.	323.	3. 3.	326455.	-4.9	165.1	24.63	7.5	.0047	15.07	.007	SI
> 970.	0.	3. 3.	329175.	-4.9	166.5	24.63	7.5	.0048	15.07	.007	SI
1132.	162.	3. 1.	-131205.	-1.8	129.4	12.32	7.5	.0037	13.62	.005	SI
1293.	323.	3. 3.	346933.	-5.2	175.5	24.63	7.5	.005	15.07	.008	SI
>1293.	0.	3. 3.	357494.	-5.3	180.8	24.63	7.5	.0052	15.07	.008	SI
1455.	162.	3. 1.	-81526.	-1.1	80.4	12.32	7.5	.0023	13.62	.003	SI
1617.	323.	3. 3.	377872.	-5.6	191.1	24.63	7.5	.0055	15.07	.008	SI
>1617.	0.	3. 3.	408452.	-6.1	206.6	24.63	7.5	.0059	15.07	.009	SI
1814.	197.	3. 1.	-147844.	-2.	145.8	12.32	7.5	.0042	13.62	.006	SI
1940.	323.	3. 1.	89990.	-1.9	90.2	12.32	7.5	.0026	22.31	.006	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	-75251.	-1.	74.2	12.32	7.5	.0021	13.62	.003	SI
90.	90.	3. 1.	-174426.	-2.4	172.1	12.32	7.5	.0049	13.62	.007	SI
323.	323.	3. 3.	477091.	-7.1	241.3	24.63	7.5	.0069	15.07	.01	SI
> 323.	0.	3. 3.	436511.	-6.5	220.8	24.63	7.5	.0063	15.07	.01	SI
485.	162.	3. 1.	-24747.	-.3	24.4	12.32	7.5	.0007	13.62	.001	SI
647.	323.	3. 3.	360141.	-5.4	182.2	24.63	7.5	.0052	15.07	.008	SI
> 647.	0.	3. 3.	352026.	-5.2	178.1	24.63	7.5	.0051	15.07	.008	SI
808.	162.	3. 1.	-115044.	-1.6	113.5	12.32	7.5	.0032	13.62	.004	SI
970.	323.	3. 3.	307973.	-4.6	155.8	24.63	7.5	.0045	15.07	.007	SI
> 970.	0.	3. 3.	310457.	-4.6	157.	24.63	7.5	.0045	15.07	.007	SI
1132.	162.	3. 1.	-123255.	-1.7	121.6	12.32	7.5	.0035	13.62	.005	SI
1293.	323.	3. 3.	329224.	-4.9	166.5	24.63	7.5	.0048	15.07	.007	SI
>1293.	0.	3. 3.	339301.	-5.	171.6	24.63	7.5	.0049	15.07	.007	SI
1455.	162.	3. 1.	-73431.	-1.	72.4	12.32	7.5	.0021	13.62	.003	SI
1617.	323.	3. 3.	361304.	-5.4	182.7	24.63	7.5	.0052	15.07	.008	SI
>1617.	0.	3. 3.	391474.	-5.8	198.	24.63	7.5	.0057	15.07	.009	SI
1814.	197.	3. 1.	-134856.	-1.8	133.	12.32	7.5	.0038	13.62	.005	SI
1940.	323.	3. 1.	83998.	-1.8	84.2	12.32	7.5	.0024	22.31	.005	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	24.63	.411	12.32	.205	8d14	12.32	.205	8d14
2	36.95	.616	12.32	.205	8d14	24.63	.411	8d14 +8d14
3	49.26	.821	24.63	.411	8d14 +8d14	24.63	.411	8d14 +8d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 4 - Travata T004 (fondazione)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN; daN/cm; daN/cm2; deform. %.
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
 gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecu=0.2% (limit.elastico)
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS : σ_c (rara)=149.4; σ_c (quasi permanente)=112. ; fbd(esercizio)= 26.9
 ACCIAIO : σ_f (rara)=3600.; Coeff.Omogein.= 15
 FESSURE : wdmax(fre.)=.4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: 100/30X90/40; A=5500.; Jg=3054924.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A126	3	3	3	0	345.	305.	3.833	1.3	5.	139.681
2	A127	3	3	3	0	340.	305.	3.778	1.3	5.	139.681

CASI DI CARICO DA MODELLO 3D

SLU		
Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAT PRINCIPALE	16
5.	SLU con SISMAT PRINCIPALE	16
8.	SLU FON con SISMAT P16	16
9.	SLU FON con SISMAT P16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	-190957.	-.002	.009	-3960743.	-.04	.186	2.	.176	20.74	SI
0.	0.	3. 1.	397845.	-.007	.019	3878119.	-.071	.186	2.	.277	9.748	SI
172.	172.	3. 1.	-467235.	-.005	.022	-3960743.	-.04	.186	2.	.176	8.477	SI
255.	255.	3. 2.	155568.	-.002	.004	7716126.	-.097	.186	2.	.342	49.6	SI
306.	306.	3. 2.	439163.	-.005	.011	7716126.	-.097	.186	2.	.342	17.57	SI
345.	345.	3. 2.	-69163.	0.	.002	-7818441.	-.056	.186	2.	.231	113.	SI
345.	345.	3. 2.	439163.	-.005	.011	7716126.	-.097	.186	2.	.342	17.57	SI
> 345.	0.	3. 2.	491463.	-.006	.012	7716126.	-.097	.186	2.	.342	15.7	SI
384.	39.	3. 2.	-66041.	0.	.002	-7818441.	-.056	.186	2.	.231	118.4	SI
435.	90.	3. 3.	-264898.	-.002	.012	-3988658.	-.036	.186	2.	.162	15.06	SI
435.	90.	3. 3.	143351.	-.002	.004	7481095.	-.119	.186	2.	.389	52.19	SI
555.	210.	3. 1.	-387533.	-.004	.018	-3960743.	-.04	.186	2.	.176	10.22	SI
685.	340.	3. 1.	-242093.	-.002	.011	-3960743.	-.04	.186	2.	.176	16.36	SI
685.	340.	3. 1.	116878.	-.002	.006	3878119.	-.071	.186	2.	.277	33.18	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-9698.	8203.	57146.	51336.	1.01	15.	2.5
90.	90.	3.	-4041.	10534.	57146.	51336.	1.01	15.	2.5
345.	345.	3.	9521.	10534.	57146.	51336.	1.01	15.	2.5
> 345.	0.	3.	-8776.	10534.	57146.	51336.	1.01	15.	2.5
685.	340.	3.	4637.	8203.	57146.	51336.	1.01	15.	2.5

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	199717.	-4.9	201.1	12.32	7.5	.0057	22.31	.013	SI
20.	20.	3. 1.	80781.	-2.	81.3	12.32	7.5	.0023	22.31	.005	SI
39.	39.	3. 1.	-33101.	-5	32.7	12.32	7.5	.0009	12.17	.001	SI
59.	59.	3. 1.	-120634.	-1.7	119.	12.32	7.5	.0034	12.17	.004	SI
172.	172.	3. 1.	-334851.	-4.6	330.3	12.32	7.5	.0094	12.17	.011	SI
345.	345.	3. 2.	310181.	-5.2	157.2	24.63	7.5	.0045	15.07	.007	SI
> 345.	0.	3. 2.	348608.	-5.9	176.6	24.63	7.5	.005	15.07	.008	SI
555.	210.	3. 1.	-272851.	-3.7	269.2	12.32	7.5	.0077	12.17	.009	SI
685.	340.	3. 1.	-54498.	-.7	53.8	12.32	7.5	.0015	12.17	.002	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	172730.	-4.3	173.9	12.32	7.5	.005	22.31	.011	SI
20.	20.	3. 1.	74638.	-1.8	75.2	12.32	7.5	.0021	22.31	.005	SI
39.	39.	3. 1.	-19286.	-.3	19.	12.32	7.5	.0005	12.17	.001	SI
172.	172.	3. 1.	-266110.	-3.6	262.5	12.32	7.5	.0075	12.17	.009	SI
345.	345.	3. 2.	261596.	-4.4	132.6	24.63	7.5	.0038	15.07	.006	SI
> 345.	0.	3. 2.	299945.	-5.	152.	24.63	7.5	.0043	15.07	.007	SI
555.	210.	3. 1.	-188469.	-2.6	185.9	12.32	7.5	.0053	12.17	.006	SI
685.	340.	3. 1.	-41856.	-.6	41.3	12.32	7.5	.0012	12.17	.001	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	165579.	-4.1	166.7	12.32	7.5	.0048	22.31	.011	SI
20.	20.	3. 1.	72958.	-1.8	73.5	12.32	7.5	.0021	22.31	.005	SI
39.	39.	3. 1.	-15726.	-.2	15.5	12.32	7.5	.0004	12.17	.001	SI
172.	172.	3. 1.	-248187.	-3.4	244.8	12.32	7.5	.007	12.17	.009	SI
345.	345.	3. 2.	248766.	-4.2	126.1	24.63	7.5	.0036	15.07	.005	SI
> 345.	0.	3. 2.	286976.	-4.8	145.4	24.63	7.5	.0042	15.07	.006	SI
555.	210.	3. 1.	-167035.	-2.3	164.8	12.32	7.5	.0047	12.17	.006	SI
685.	340.	3. 1.	-38651.	-.5	38.1	12.32	7.5	.0011	12.17	.001	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	24.63	.448	12.32	.224	8d14	12.32	.224	8d14
2	49.26	.896	24.63	.448	8d14 +8d14	24.63	.448	8d14 +8d14
3	36.95	.672	12.32	.224	8d14	24.63	.448	8d14 +8d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 5 - Travata T005 (fondazione)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferri (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck=300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
 gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecd=.2% (limit.elastico)
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS : σ_c (rara)=149.4; σ_c (quasi permanente)=112. ; fbd(esercizio)= 26.9
 ACCIAIO : σ_f (rara)=3600.; Coeff.Omogein= 15
 FESSURE : wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: 100/40x90/40; A=6000.; Jg=3650000.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A105	3	3	3	0	323.	283.	3.593	1.3	5.	145.157
2	A106	3	3	3	0	323.	288.	3.593	1.5	5.	167.489
3	A107	3	3	3	0	323.	293.	3.593	1.5	5.	167.489
4	A108	3	3	3	0	323.	293.	3.593	1.5	5.	167.489
5	A109	3	3	3	0	323.	293.	3.593	1.5	5.	167.489
6	A110	3	3	3	0	323.	293.	3.593	1.5	5.	167.489
7	A111	3	3	3	0	345.	315.	3.833	1.5	5.	167.489
8	A112	3	3	3	0	340.	310.	3.778	1.3	5.	145.157

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	
5.	SLU con SISMAX PRINC16	
8.	SLU FON con SISMAX P16	
9.	SLU FON con SISMAX P16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epscl	Epsac	Mrd	Epscl	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	-393687.	-.004	.018	-3960743.	-.04	.186	2.	.176	10.06	SI
90.	90.	3. 1.	-471764.	-.005	.022	-3960743.	-.04	.186	2.	.176	8.396	SI
249.	249.	3. 2.	-239424.	-.002	.011	-3988658.	-.036	.186	2.	.162	16.66	SI
249.	249.	3. 2.	267575.	-.003	.007	7533488.	-.101	.186	2.	.352	28.16	SI
264.	264.	3. 3.	-162594.	-.001	.004	-7818441.	-.056	.186	2.	.231	48.09	SI
264.	264.	3. 3.	413036.	-.004	.01	7724908.	-.086	.186	2.	.315	18.7	SI
284.	284.	3. 3.	-64855.	0.	.002	-7818441.	-.056	.186	2.	.231	120.6	SI
284.	284.	3. 3.	601640.	-.006	.014	7724908.	-.086	.186	2.	.315	12.84	SI
323.	323.	3. 3.	601640.	-.006	.014	7724908.	-.086	.186	2.	.315	12.84	SI
> 323.	0.	3. 3.	532297.	-.006	.013	7724908.	-.086	.186	2.	.315	14.51	SI
362.	39.	3. 3.	-22345.	0.	.001	-7818441.	-.056	.186	2.	.231	349.9	SI
382.	59.	3. 2.	-35326.	0.	.002	-3988658.	-.036	.186	2.	.162	112.9	SI
382.	59.	3. 2.	397037.	-.005	.01	7533488.	-.101	.186	2.	.352	18.97	SI
449.	126.	3. 1.	-40592.	0.	.002	-3960743.	-.04	.186	2.	.176	97.58	SI
521.	198.	3. 1.	-3751.	0.	0.	-3960743.	-.04	.186	2.	.176	1056.	SI
557.	233.	3. 1.	679216.	-.01	.032	3894459.	-.062	.186	2.	.25	5.734	SI
608.	284.	3. 3.	1250764.	-.013	.03	7724908.	-.086	.186	2.	.315	6.176	SI
647.	323.	3. 3.	1250764.	-.013	.03	7724908.	-.086	.186	2.	.315	6.176	SI
> 647.	0.	3. 3.	1237220.	-.013	.03	7724908.	-.086	.186	2.	.315	6.244	SI
719.	72.	3. 2.	814660.	-.01	.02	7533488.	-.101	.186	2.	.352	9.247	SI
737.	90.	3. 1.	-1837.	0.	0.	-3960743.	-.04	.186	2.	.176	2157.	SI
844.	197.	3. 1.	-157155.	-.002	.007	-3960743.	-.04	.186	2.	.176	25.2	SI
898.	251.	3. 2.	-136459.	-.001	.006	-3988658.	-.036	.186	2.	.162	29.23	SI
916.	269.	3. 3.	-111063.	-.001	.003	-7818441.	-.056	.186	2.	.231	70.4	SI
970.	323.	3. 3.	414661.	-.004	.01	7724908.	-.086	.186	2.	.315	18.63	SI
> 970.	0.	3. 3.	-11267.	0.	0.	-7818441.	-.056	.186	2.	.231	693.9	SI
970.	0.	3. 3.	422550.	-.004	.01	7724908.	-.086	.186	2.	.315	18.28	SI
1042.	72.	3. 2.	-304847.	-.003	.014	-3988658.	-.036	.186	2.	.162	13.08	SI

1042.	72.	3.	2.	122996.	-.001	.003	7533488.	-.101	.186	2.	.352	61.25	SI
1132.	162.	3.	1.	-376827.	-.004	.018	-3960743.	-.04	.186	2.	.176	10.51	SI
1254.	284.	3.	3.	647874.	-.007	.016	7724908.	-.086	.186	2.	.315	11.92	SI
1293.	323.	3.	3.	647874.	-.007	.016	7724908.	-.086	.186	2.	.315	11.92	SI
>1293.	0.	3.	3.	649634.	-.007	.016	7724908.	-.086	.186	2.	.315	11.89	SI
1332.	39.	3.	3.	-28643.	0.	.001	-7818441.	-.056	.186	2.	.231	273.	SI
1365.	72.	3.	2.	-141615.	-.001	.007	-3988658.	-.036	.186	2.	.162	28.17	SI
1365.	72.	3.	2.	329852.	-.004	.008	7533488.	-.101	.186	2.	.352	22.84	SI
1455.	162.	3.	1.	-232611.	-.002	.011	-3960743.	-.04	.186	2.	.176	17.03	SI
1578.	284.	3.	3.	-5167.	0.	0.	-7818441.	-.056	.186	2.	.231	1513.	SI
1578.	284.	3.	3.	715888.	-.007	.017	7724908.	-.086	.186	2.	.315	10.79	SI
1617.	323.	3.	3.	715888.	-.007	.017	7724908.	-.086	.186	2.	.315	10.79	SI
>1617.	0.	3.	3.	725902.	-.008	.017	7724908.	-.086	.186	2.	.315	10.64	SI
1671.	54.	3.	3.	-42168.	0.	.001	-7818441.	-.056	.186	2.	.231	185.4	SI
1689.	72.	3.	2.	-98315.	-.001	.005	-3988658.	-.036	.186	2.	.162	40.57	SI
1689.	72.	3.	2.	400419.	-.005	.01	7533488.	-.101	.186	2.	.352	18.81	SI
1778.	162.	3.	1.	-202014.	-.002	.009	-3960743.	-.04	.186	2.	.176	19.61	SI
1901.	284.	3.	3.	-10329.	0.	0.	-7818441.	-.056	.186	2.	.231	757.	SI
1940.	323.	3.	3.	616687.	-.006	.015	7724908.	-.086	.186	2.	.315	12.53	SI
>1940.	0.	3.	3.	630885.	-.007	.015	7724908.	-.086	.186	2.	.315	12.25	SI
1994.	54.	3.	3.	-12438.	0.	0.	-7818441.	-.056	.186	2.	.231	628.6	SI
2012.	72.	3.	2.	-67588.	-.001	.003	-3988658.	-.036	.186	2.	.162	59.01	SI
2012.	72.	3.	2.	349300.	-.004	.009	7533488.	-.101	.186	2.	.352	21.57	SI
2112.	172.	3.	1.	-153337.	-.001	.007	-3960743.	-.04	.186	2.	.176	25.83	SI
2213.	273.	3.	3.	-3877.	0.	0.	-7818441.	-.056	.186	2.	.231	2017.	SI
2246.	306.	3.	3.	824351.	-.009	.02	7724908.	-.086	.186	2.	.315	9.371	SI
2285.	345.	3.	3.	824351.	-.009	.02	7724908.	-.086	.186	2.	.315	9.371	SI
>2285.	0.	3.	3.	858497.	-.009	.021	7724908.	-.086	.186	2.	.315	8.998	SI
2339.	54.	3.	2.	714230.	-.009	.018	7533488.	-.101	.186	2.	.352	10.55	SI
2357.	72.	3.	2.	-5036.	0.	0.	-3988658.	-.036	.186	2.	.162	792.1	SI
2495.	210.	3.	1.	-303087.	-.003	.014	-3960743.	-.04	.186	2.	.176	13.07	SI
2625.	340.	3.	1.	-221740.	-.002	.01	-3960743.	-.04	.186	2.	.176	17.86	SI
2625.	340.	3.	1.	39098.	-.001	.002	3894459.	-.062	.186	2.	.25	99.61	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	-4072.	10937.	76194.	51336.	1.01	15.	2.5	SI
90.	90.	-939.	12761.	76194.	51336.	1.01	15.	2.5	SI
323.	323.	10549.	10937.	76194.	51336.	1.01	15.	2.5	SI
> 323.	0.	-7944.	10937.	76194.	51336.	1.01	15.	2.5	SI
382.	59.	-4491.	12761.	76194.	51336.	1.01	15.	2.5	SI
647.	323.	13310.	10937.	76194.	51336.	1.01	15.	2.5	SI
> 647.	0.	-14308.	10937.	76194.	51336.	1.01	15.	2.5	SI
686.	39.	-11451.	12761.	76194.	51336.	1.01	15.	2.5	SI
970.	323.	9043.	10937.	76194.	51336.	1.01	15.	2.5	SI
> 970.	0.	-10596.	10937.	76194.	51336.	1.01	15.	2.5	SI
1042.	72.	-5554.	12761.	76194.	51336.	1.01	15.	2.5	SI
1293.	323.	11996.	10937.	76194.	51336.	1.01	15.	2.5	SI
>1293.	0.	-11128.	10937.	76194.	51336.	1.01	15.	2.5	SI
1365.	72.	-6071.	12761.	76194.	51336.	1.01	15.	2.5	SI
1617.	323.	11492.	10937.	76194.	51336.	1.01	15.	2.5	SI
>1617.	0.	-11282.	10937.	76194.	51336.	1.01	15.	2.5	SI
1656.	39.	-8581.	12761.	76194.	51336.	1.01	15.	2.5	SI
1940.	323.	10299.	10937.	76194.	51336.	1.01	15.	2.5	SI
>1940.	0.	-9917.	10937.	76194.	51336.	1.01	15.	2.5	SI
1979.	39.	-7446.	12761.	76194.	51336.	1.01	15.	2.5	SI
2285.	345.	10456.	10937.	76194.	51336.	1.01	15.	2.5	SI
>2285.	0.	-10735.	10937.	76194.	51336.	1.01	15.	2.5	SI
2324.	39.	-8690.	12761.	76194.	51336.	1.01	15.	2.5	SI
2625.	340.	4046.	10937.	76194.	51336.	1.01	15.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
20.	20.	3.	1.	-238425.	-3.3	235.2	12.32	.0067	13.62	.009	SI
90.	90.	3.	1.	-340727.	-4.7	336.1	12.32	.0096	13.62	.013	SI
323.	323.	3.	3.	432538.	-6.4	218.8	24.63	.0063	15.07	.009	SI
> 323.	0.	3.	3.	382007.	-5.7	193.2	24.63	.0055	15.07	.008	SI
449.	126.	3.	1.	4525.	-.1	4.5	12.32	.0001	22.31	0.	SI
647.	323.	3.	3.	910375.	-13.5	460.5	24.63	.0132	15.07	.02	SI
> 647.	0.	3.	3.	900426.	-13.4	455.4	24.63	.013	15.07	.02	SI
844.	197.	3.	1.	-112640.	-1.5	111.1	12.32	.0032	13.62	.004	SI
970.	323.	3.	3.	297836.	-4.4	150.6	24.63	.0043	15.07	.006	SI
> 970.	0.	3.	3.	303650.	-4.5	153.6	24.63	.0044	15.07	.007	SI
1132.	162.	3.	1.	-273110.	-3.7	269.4	12.32	.0077	13.62	.01	SI
1293.	323.	3.	3.	468566.	-7.	237.	24.63	.0068	15.07	.01	SI
>1293.	0.	3.	3.	469881.	-7.	237.7	24.63	.0068	15.07	.01	SI
1455.	162.	3.	1.	-167543.	-2.3	165.3	12.32	.0047	13.62	.006	SI
1617.	323.	3.	3.	518368.	-7.7	262.2	24.63	.0075	15.07	.011	SI
>1617.	0.	3.	3.	525710.	-7.8	265.9	24.63	.0076	15.07	.011	SI
1778.	162.	3.	1.	-145113.	-2.	143.2	12.32	.0041	13.62	.006	SI
1940.	323.	3.	3.	445945.	-6.6	225.6	24.63	.0064	15.07	.01	SI
>1940.	0.	3.	3.	456520.	-6.8	230.9	24.63	.0066	15.07	.01	SI
2112.	172.	3.	1.	-105391.	-1.4	104.	12.32	.003	13.62	.004	SI
2285.	345.	3.	3.	603204.	-9.	305.1	24.63	.0087	15.07	.013	SI
>2285.	0.	3.	3.	628670.	-9.3	318.	24.63	.0091	15.07	.014	SI
2535.	250.	3.	1.	-212262.	-2.9	209.4	12.32	.006	13.62	.008	SI
2625.	340.	3.	1.	-63816.	-.9	63.	12.32	.0018	13.62	.002	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve
20.	20.	3. 1.	-208248.	-2.9	205.4	12.32	7.5	.0059	13.62	.008	SI
90.	90.	3. 1.	-291622.	-4.	287.7	12.32	7.5	.0082	13.62	.011	SI
323.	323.	3. 3.	369944.	-5.5	187.1	24.63	7.5	.0053	15.07	.008	SI
> 323.	0.	3. 3.	324161.	-4.8	164.	24.63	7.5	.0047	15.07	.007	SI
449.	126.	3. 1.	11042.	-.2	11.1	12.32	7.5	.0003	22.31	.001	SI
647.	323.	3. 3.	816261.	-12.1	412.9	24.63	7.5	.0118	15.07	.018	SI
> 647.	0.	3. 3.	807098.	-12.	408.2	24.63	7.5	.0117	15.07	.018	SI
844.	197.	3. 1.	-95446.	-1.3	94.2	12.32	7.5	.0027	13.62	.004	SI
970.	323.	3. 3.	247049.	-3.7	125.	24.63	7.5	.0036	15.07	.005	SI
> 970.	0.	3. 3.	252453.	-3.8	127.7	24.63	7.5	.0036	15.07	.005	SI
1132.	162.	3. 1.	-241584.	-3.3	238.3	12.32	7.5	.0068	13.62	.009	SI
1293.	323.	3. 3.	406987.	-6.	205.9	24.63	7.5	.0059	15.07	.009	SI
> 1293.	0.	3. 3.	408042.	-6.1	206.4	24.63	7.5	.0059	15.07	.009	SI
1455.	162.	3. 1.	-143659.	-2.	141.7	12.32	7.5	.004	13.62	.006	SI
1617.	323.	3. 3.	453583.	-6.7	229.4	24.63	7.5	.0066	15.07	.01	SI
> 1617.	0.	3. 3.	460042.	-6.8	232.7	24.63	7.5	.0066	15.07	.01	SI
1778.	162.	3. 1.	-119775.	-1.6	118.2	12.32	7.5	.0034	13.62	.005	SI
1940.	323.	3. 3.	395833.	-5.9	200.2	24.63	7.5	.0057	15.07	.009	SI
> 1940.	0.	3. 3.	406251.	-6.	205.5	24.63	7.5	.0059	15.07	.009	SI
2112.	172.	3. 1.	-55358.	-.8	54.6	12.32	7.5	.0016	13.62	.002	SI
2285.	345.	3. 3.	574036.	-8.5	290.3	24.63	7.5	.0083	15.07	.012	SI
> 2285.	0.	3. 3.	601093.	-8.9	304.	24.63	7.5	.0087	15.07	.013	SI
2535.	250.	3. 1.	-149640.	-2.	147.6	12.32	7.5	.0042	13.62	.006	SI
2625.	340.	3. 1.	-73715.	-1.	72.7	12.32	7.5	.0021	13.62	.003	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve
20.	20.	3. 1.	-199998.	-2.7	197.3	12.32	7.5	.0056	13.62	.008	SI
90.	90.	3. 1.	-278268.	-3.8	274.5	12.32	7.5	.0078	13.62	.011	SI
323.	323.	3. 3.	353437.	-5.3	178.8	24.63	7.5	.0051	15.07	.008	SI
> 323.	0.	3. 3.	309013.	-4.6	156.3	24.63	7.5	.0045	15.07	.007	SI
449.	126.	3. 1.	12685.	-.3	12.7	12.32	7.5	.0004	22.31	.001	SI
647.	323.	3. 3.	789497.	-11.7	399.3	24.63	7.5	.0114	15.07	.017	SI
> 647.	0.	3. 3.	780569.	-11.6	394.8	24.63	7.5	.0113	15.07	.017	SI
844.	197.	3. 1.	-90776.	-1.2	89.5	12.32	7.5	.0026	13.62	.003	SI
970.	323.	3. 3.	233966.	-3.5	118.3	24.63	7.5	.0034	15.07	.005	SI
> 970.	0.	3. 3.	239253.	-3.6	121.	24.63	7.5	.0035	15.07	.005	SI
1132.	162.	3. 1.	-232771.	-3.2	229.6	12.32	7.5	.0066	13.62	.009	SI
1293.	323.	3. 3.	390165.	-5.8	197.3	24.63	7.5	.0056	15.07	.008	SI
> 1293.	0.	3. 3.	391168.	-5.8	197.8	24.63	7.5	.0057	15.07	.009	SI
1455.	162.	3. 1.	-137301.	-1.9	135.4	12.32	7.5	.0039	13.62	.005	SI
1617.	323.	3. 3.	435784.	-6.5	220.4	24.63	7.5	.0063	15.07	.009	SI
> 1617.	0.	3. 3.	442010.	-6.6	223.6	24.63	7.5	.0064	15.07	.01	SI
1778.	162.	3. 1.	-113071.	-1.5	111.5	12.32	7.5	.0032	13.62	.004	SI
1940.	323.	3. 3.	382063.	-5.7	193.2	24.63	7.5	.0055	15.07	.008	SI
> 1940.	0.	3. 3.	392408.	-5.8	198.5	24.63	7.5	.0057	15.07	.009	SI
2112.	172.	3. 1.	-42744.	-.6	42.2	12.32	7.5	.0012	13.62	.002	SI
2285.	345.	3. 3.	564721.	-8.4	285.6	24.63	7.5	.0082	15.07	.012	SI
> 2285.	0.	3. 3.	592083.	-8.8	299.5	24.63	7.5	.0086	15.07	.013	SI
2535.	250.	3. 1.	-133622.	-1.8	131.8	12.32	7.5	.0038	13.62	.005	SI
2625.	340.	3. 1.	-75932.	-1.	74.9	12.32	7.5	.0021	13.62	.003	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	24.63	.411	12.32	.205	8d14	12.32	.205	8d14
2	36.95	.616	12.32	.205	8d14	24.63	.411	8d14 +8d14
3	49.26	.821	24.63	.411	8d14 +8d14	24.63	.411	8d14 +8d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 13 - Travata T013 (fondazione)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
 gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecu=.2% (limit.elastico)
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS : σ_c (rara)=149.4; σ_c (quasi permanente)=112. ; fbd(esercizio)= 26.9
 ACCIAIO : σ_f (rara)=3600.; Coeff.Omogein.= 15
 FESSURE : w_{dmax}(fre.)=.4 ; w_{dmax}(q.p.)=.3 [4.1.2.2.4.5];
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: 100/30x90/40; A=5500.; J_g=3054924.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A143	3	3	3	0	265.	235.	2.944	1.3	5.	139.681
2	A144	3	3	3	0	215.	155.	2.389	1.3	4.109	114.802

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	
5.	SLU con SISMAX PRINC16	
8.	SLU FON con SISMAX P16	
9.	SLU FON con SISMAX P16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc1	Epsac	Mrd	Epsc1	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	-260640.	-.003	.012	-3960743.	-.04	.186	2.	.176	15.2	SI
118.	118.	3.	-335308.	-.003	.016	-3960743.	-.04	.186	2.	.176	11.81	SI
147.	147.	3.	50878.	-.001	.002	3878119.	-.071	.186	2.	.277	76.22	SI
193.	193.	3.	198492.	-.002	.005	7716126.	-.097	.186	2.	.342	38.87	SI
226.	226.	3.	323651.	-.004	.008	7716126.	-.097	.186	2.	.342	23.84	SI
265.	265.	3.	-332078.	-.002	.008	-7818441.	-.056	.186	2.	.231	23.54	SI
265.	265.	3.	323651.	-.004	.008	7716126.	-.097	.186	2.	.342	23.84	SI
> 265.	0.	3.	-444880.	-.003	.011	-7818441.	-.056	.186	2.	.231	17.57	SI
265.	0.	3.	271138.	-.003	.007	7716126.	-.097	.186	2.	.342	28.46	SI
280.	15.	3.	-445549.	-.003	.011	-7818441.	-.056	.186	2.	.231	17.55	SI
441.	176.	3.	943711.	-.017	.045	3878119.	-.071	.186	2.	.277	4.109	SI
480.	215.	3.	-157441.	-.002	.007	-3960743.	-.04	.186	2.	.176	25.16	SI
480.	215.	3.	943711.	-.017	.045	3878119.	-.071	.186	2.	.277	4.109	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-3091.	8203.	57146.	51336.	1.01	15.	2.5
90.	90.	3.	-1721.	10534.	57146.	51336.	1.01	15.	2.5
265.	265.	3.	4775.	8203.	57146.	51336.	1.01	15.	2.5
> 265.	0.	3.	-1292.	8203.	57146.	51336.	1.01	15.	2.5
265.	0.	3.	1756.	8203.	57146.	51336.	1.01	15.	2.5
304.	39.	3.	-63.	10534.	57146.	51336.	1.01	15.	2.5
480.	215.	3.	7381.	8203.	57146.	51336.	1.01	15.	2.5

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	-117878.	-1.6	116.3	12.32	7.5	.0033	12.17	.004	SI
54.	54.	3.	-208610.	-2.9	205.8	12.32	7.5	.0059	12.17	.007	SI
118.	118.	3.	-245841.	-3.4	242.5	12.32	7.5	.0069	12.17	.008	SI
265.	265.	3.	-6908.	-.1	3.5	24.63	7.5	.0001	9.99	0.	SI
> 265.	0.	3.	-69498.	-.7	34.7	24.63	7.5	.001	9.99	.001	SI
280.	15.	3.	-74556.	-.7	37.2	24.63	7.5	.0011	9.99	.001	SI
480.	215.	3.	428097.	-10.6	431.1	12.32	7.5	.0123	22.31	.027	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	-105724.	-1.4	104.3	12.32	7.5	.003	12.17	.004	SI
54.	54.	3.	-161834.	-2.2	159.6	12.32	7.5	.0046	12.17	.006	SI
118.	118.	3.	-183405.	-2.5	180.9	12.32	7.5	.0052	12.17	.006	SI
265.	265.	3.	-3265.	0.	1.6	24.63	7.5	0.	9.99	0.	SI
> 265.	0.	3.	-108647.	-1.1	54.3	24.63	7.5	.0016	9.99	.002	SI
480.	215.	3.	471000.	-11.6	474.3	12.32	7.5	.0136	22.31	.03	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	-102477.	-1.4	101.1	12.32	7.5	.0029	12.17	.004	SI
54.	54.	3.	-149850.	-2.1	147.8	12.32	7.5	.0042	12.17	.005	SI
118.	118.	3.	-167491.	-2.3	165.2	12.32	7.5	.0047	12.17	.006	SI
265.	265.	3.	-2366.	0.	1.2	24.63	7.5	0.	9.99	0.	SI

> 265. | 0. | 3. | 2. | -118627. | -1.1 | 59.3 | 24.63 | 7.5 | .0017 | 9.99 | .002 | SI |
 480. | 215. | 3. | 1. | 481495. | -11.9 | 484.9 | 12.32 | 7.5 | .0139 | 22.31 | .031 | SI |

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	24.63	.448	12.32	.224	8d14	12.32	.224	8d14
2	49.26	.896	24.63	.448	8d14 +8d14	24.63	.448	8d14 +8d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 14 - Travata T014 (fondazione)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN; daN/cm; daN/cm2; deform. %.
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
 gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecud=.2% (limit.elastico)
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS : σc (rara)=149.4; σc (quasi permanente)=112. ; fbd(esercizio)= 26.9
 ACCIAIO : σf (rara)=3600.; Coeff.Omoegin.= 15
 FESSURE : wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: 100/30X90/40; A=5500.; Jg=3054924.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A171	3	3	3	0	230.	210.	2.556	.4	1.	6.742
2	A172	3	3	3	0	496.	461.	5.515	1.5	5.	161.17
3	A173	3	3	3	0	337.	307.	3.743	1.5	5.	161.17
4	A182	3	3	3	0	20.	5.	.222	.4	1.	8.

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMA PRINC16	
5.	SLU con SISMA PRINC16	
8.	SLU FON con SISMA PRINC16	
9.	SLU FON con SISMA PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 20.	20.	3. 1.	-56167.	-.001	.003	-3960743.	-.04	.186	2.	.176	70.52	SI
65.	65.	3. 1.	-19385.	0.	.001	-3960743.	-.04	.186	2.	.176	204.3	SI
155.	155.	3. 1.	935908.	-.016	.045	3878119.	-.071	.186	2.	.277	4.144	SI
171.	171.	3. 2.	1079608.	-.015	.027	7481095.	-.119	.186	2.	.389	6.929	SI
191.	191.	3. 3.	1280091.	-.015	.031	7716126.	-.097	.186	2.	.342	6.028	SI
230.	230.	3. 3.	1280091.	-.015	.031	7716126.	-.097	.186	2.	.342	6.028	SI
> 230.	0.	3. 3.	1298147.	-.015	.031	7716126.	-.097	.186	2.	.342	5.944	SI
305.	75.	3. 1.	897930.	-.016	.043	3878119.	-.071	.186	2.	.277	4.319	SI
320.	90.	3. 1.	-40570.	0.	.002	-3960743.	-.04	.186	2.	.176	97.63	SI
501.	271.	3. 1.	-460364.	-.004	.022	-3960743.	-.04	.186	2.	.176	8.604	SI
726.	496.	3. 3.	-50846.	0.	.001	-7818441.	-.056	.186	2.	.231	153.8	SI
726.	496.	3. 3.	440085.	-.005	.011	7716126.	-.097	.186	2.	.342	17.53	SI
> 726.	0.	3. 3.	451566.	-.005	.011	7716126.	-.097	.186	2.	.342	17.09	SI
741.	15.	3. 2.	-22731.	0.	.001	-7818441.	-.056	.186	2.	.231	344.	SI
781.	54.	3. 2.	-109903.	-.001	.005	-3988658.	-.036	.186	2.	.162	36.29	SI
781.	54.	3. 2.	350116.	-.005	.009	7481095.	-.119	.186	2.	.389	21.37	SI
856.	129.	3. 1.	4388.	0.	0.	3878119.	-.071	.186	2.	.277	883.8	SI
895.	168.	3. 1.	-249662.	-.002	.012	-3960743.	-.04	.186	2.	.176	15.86	SI
1024.	298.	3. 1.	287059.	-.005	.014	3878119.	-.071	.186	2.	.277	13.51	SI
1063.	337.	3. 1.	-54683.	-.001	.003	-3960743.	-.04	.186	2.	.176	72.43	SI
1063.	337.	3. 1.	287059.	-.005	.014	3878119.	-.071	.186	2.	.277	13.51	SI

>1063.	0.	3.	1.	0.!	0.	-3960743.!	-.04	.186	2.	.176!	***	SI
1063.	0.	3.	1.	8971.!	0.	! 3878119.!	-.071	.186	2.	.277!	432.3!	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	1386.!	8203.!	57146.!	51336.!	1.01	15.	2.5
115.	115.	3.	5621.!	10534.!	57146.!	51336.!	1.01	15.	2.5
230.	230.	3.	10685.!	8203.!	57146.!	51336.!	1.01	15.	2.5
> 230.	0.	3.	-12726.!	8203.!	57146.!	51336.!	1.01	15.	2.5
289.	59.	3.	-10002.!	10534.!	57146.!	51336.!	1.01	15.	2.5
726.	496.	3.	8640.!	8203.!	57146.!	51336.!	1.01	15.	2.5
> 726.	0.	3.	-7617.!	8203.!	57146.!	51336.!	1.01	15.	2.5
816.	90.	3.	-3934.!	10534.!	57146.!	51336.!	1.01	15.	2.5
1063.	337.	3.	6610.!	8203.!	57146.!	51336.!	1.01	15.	2.5
>1063.	0.	3.	-895.!	8203.!	57146.!	51336.!	1.01	15.	2.5
1083.	20.	3.	0.!	8203.!	57146.!	51336.!	1.01	15.	2.5

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 20.	20.	3.	1.	-522.!	0.	.5	12.32	7.5	0.	12.17	0.
155.	155.	3.	1.	438744.!	-10.8	441.8	12.32	7.5	.0126	22.31	.028
230.	230.	3.	3.	911189.!	-15.3	461.7	24.63	7.5	.0132	15.07	.02
> 230.	0.	3.	3.	924827.!	-15.5	468.6	24.63	7.5	.0134	15.07	.02
305.	75.	3.	1.	350050.!	-8.7	352.5	12.32	7.5	.0101	22.31	.022
501.	271.	3.	1.	-328957.!	-4.5	324.5	12.32	7.5	.0093	12.17	.011
726.	496.	3.	3.	306691.!	-5.2	155.4	24.63	7.5	.0044	15.07	.007
> 726.	0.	3.	3.	315024.!	-5.3	159.6	24.63	7.5	.0046	15.07	.007
895.	168.	3.	1.	-176949.!	-2.4	174.6	12.32	7.5	.005	12.17	.006
1063.	337.	3.	1.	180745.!	-4.5	182.!	12.32	7.5	.0052	22.31	.012
>1063.	0.	3.	1.	6379.!	-2.!	6.4	12.32	7.5	.0002	22.31	0.
1078.	15.	3.	1.	400.!	0.	.4	12.32	7.5	0.	22.31	0.

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 20.	20.	3.	1.	23916.!	-6.	24.1	12.32	7.5	.0007	22.31	.002
39.	39.	3.	1.	48526.!	-1.2	48.9	12.32	7.5	.0014	22.31	.003
155.	155.	3.	1.	363678.!	-9.	366.2	12.32	7.5	.0105	22.31	.023
230.	230.	3.	3.	734496.!	-12.3	372.2	24.63	7.5	.0106	15.07	.016
> 230.	0.	3.	3.	746728.!	-12.5	378.4	24.63	7.5	.0108	15.07	.016
305.	75.	3.	1.	285749.!	-7.1	287.8	12.32	7.5	.0082	22.31	.018
546.	316.	3.	1.	-265919.!	-3.6	262.3	12.32	7.5	.0075	12.17	.009
726.	496.	3.	3.	219878.!	-3.7	111.4	24.63	7.5	.0032	15.07	.005
> 726.	0.	3.	3.	227002.!	-3.8	115.	24.63	7.5	.0033	15.07	.005
895.	168.	3.	1.	-137612.!	-1.9	135.8	12.32	7.5	.0039	12.17	.005
1063.	337.	3.	1.	174159.!	-4.3	175.4	12.32	7.5	.005	22.31	.011
>1063.	0.	3.	1.	5123.!	-1.!	5.2	12.32	7.5	.0001	22.31	0.
1078.	15.	3.	1.	321.!	0.	.3	12.32	7.5	0.	22.31	0.

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 20.	20.	3.	1.	30101.!	-7.	30.3	12.32	7.5	.0009	22.31	.002
39.	39.	3.	1.	52614.!	-1.3	53.	12.32	7.5	.0015	22.31	.003
155.	155.	3.	1.	344146.!	-8.5	346.6	12.32	7.5	.0099	22.31	.022
230.	230.	3.	3.	688749.!	-11.6	349.	24.63	7.5	.01	15.07	.015
> 230.	0.	3.	3.	700601.!	-11.8	355.	24.63	7.5	.0101	15.07	.015
305.	75.	3.	1.	269025.!	-6.7	270.9	12.32	7.5	.0077	22.31	.017
546.	316.	3.	1.	-250201.!	-3.4	246.8	12.32	7.5	.0071	12.17	.009
726.	496.	3.	3.	198204.!	-3.3	100.4	24.63	7.5	.0029	15.07	.004
> 726.	0.	3.	3.	205055.!	-3.4	103.9	24.63	7.5	.003	15.07	.004
895.	168.	3.	1.	-127562.!	-1.7	125.8	12.32	7.5	.0036	12.17	.004
1063.	337.	3.	1.	171359.!	-4.2	172.6	12.32	7.5	.0049	22.31	.011
>1063.	0.	3.	1.	4797.!	-1.!	4.8	12.32	7.5	.0001	22.31	0.
1078.	15.	3.	1.	300.!	0.	.3	12.32	7.5	0.	22.31	0.

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	24.63	.448	12.32	.224	8d14	12.32	.224	8d14
2	36.95	.672	12.32	.224	8d14	24.63	.448	8d14 +8d14
3	49.26	.896	24.63	.448	8d14 +8d14	24.63	.448	8d14 +8d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 15 - Travata T015 (fondazione)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecud=.2% (limit.elastico)
ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
CLS : σ (rara)=149.4; σ (quasi permanente)=112. ; fbd(esercizio)= 26.9
ACCIAIO : σ f (rara)=3600.; Coeff.Omogein.= 15
FESSURE : wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: 100/30X90/40; A=5500.; Jg=3054924.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A149	3	3	3	0	225.	205.	2.501	.4	1.	6.742
2	A148	3	3	3	0	361.	326.	4.006	1.5	5.	161.17
3	A147	3	3	3	0	361.	331.	4.006	1.5	5.	161.17
4	A146	3	3	3	0	225.	210.	2.501	.4	1.	6.742

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	
5.	SLU con SISMAX PRINC16	
8.	SLU FON con SISMAX P16	
9.	SLU FON con SISMAX P16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 20.	20.	3. 1.	-98664.	-.001	.005	-3960743.	-.04	.186	2.	.176	40.14	SI
90.	90.	3. 1.	-11547.	0.	.001	-3960743.	-.04	.186	2.	.176	343.	SI
135.	135.	3. 1.	535428.	-.009	.026	3878119.	-.071	.186	2.	.277	7.243	SI
150.	150.	3. 2.	626212.	-.009	.015	7481095.	-.119	.186	2.	.389	11.95	SI
166.	166.	3. 3.	722688.	-.008	.017	7716126.	-.097	.186	2.	.342	10.68	SI
186.	186.	3. 3.	857697.	-.01	.021	7716126.	-.097	.186	2.	.342	8.996	SI
225.	225.	3. 3.	857697.	-.01	.021	7716126.	-.097	.186	2.	.342	8.996	SI
> 225.	0.	3. 3.	938746.	-.011	.023	7716126.	-.097	.186	2.	.342	8.22	SI
300.	75.	3. 2.	-35313.	0.	.002	-3988658.	-.036	.186	2.	.162	113.	SI
300.	75.	3. 2.	658150.	-.009	.016	7481095.	-.119	.186	2.	.389	11.37	SI
496.	271.	3. 2.	7096.	0.	0.	7481095.	-.119	.186	2.	.389	1054.	SI
586.	361.	3. 3.	-375586.	-.003	.009	-7818441.	-.056	.186	2.	.231	20.82	SI
586.	361.	3. 3.	107673.	-.001	.003	7716126.	-.097	.186	2.	.342	71.66	SI
> 586.	0.	3. 3.	-289159.	-.002	.007	-7818441.	-.056	.186	2.	.231	27.04	SI
586.	0.	3. 3.	37135.	0.	.001	7716126.	-.097	.186	2.	.342	207.8	SI
640.	54.	3. 3.	6943.	0.	0.	7716126.	-.097	.186	2.	.342	1111.	SI
658.	72.	3. 2.	-302793.	-.003	.014	-3988658.	-.036	.186	2.	.162	13.17	SI
676.	90.	3. 2.	-310201.	-.003	.014	-3988658.	-.036	.186	2.	.162	12.86	SI
856.	271.	3. 2.	394639.	-.006	.01	7481095.	-.119	.186	2.	.389	18.96	SI
907.	321.	3. 2.	715582.	-.008	.017	7716126.	-.097	.186	2.	.342	10.78	SI
946.	361.	3. 3.	715582.	-.008	.017	7716126.	-.097	.186	2.	.342	10.78	SI
> 946.	0.	3. 3.	548579.	-.006	.013	7716126.	-.097	.186	2.	.342	14.07	SI
1018.	72.	3. 2.	366225.	-.005	.009	7481095.	-.119	.186	2.	.389	20.43	SI
1036.	90.	3. 1.	-19721.	0.	.001	-3960743.	-.04	.186	2.	.176	200.8	SI
1036.	90.	3. 1.	276809.	-.005	.013	3878119.	-.071	.186	2.	.277	14.01	SI
1152.	205.	3. 1.	-71791.	-.001	.003	-3960743.	-.04	.186	2.	.176	55.17	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	1605.	8203.	57146.	51336.	1.01	15.	2.5
113.	113.	3.	3871.	10534.	57146.	51336.	1.01	15.	2.5
225.	225.	3.	7188.	10534.	57146.	51336.	1.01	15.	2.5
> 225.	0.	3.	-8630.	10534.	57146.	51336.	1.01	15.	2.5
586.	361.	3.	-819.	8203.	57146.	51336.	1.01	15.	2.5
586.	361.	3.	2385.	8203.	57146.	51336.	1.01	15.	2.5
> 586.	0.	3.	-2698.	8203.	57146.	51336.	1.01	15.	2.5
640.	54.	3.	-1623.	10534.	57146.	51336.	1.01	15.	2.5
946.	361.	3.	8206.	10534.	57146.	51336.	1.01	15.	2.5
> 946.	0.	3.	-6271.	10534.	57146.	51336.	1.01	15.	2.5
1171.	225.	3.	1386.	8203.	57146.	51336.	1.01	15.	2.5

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve
> 20.	20.	3. 1.	-7927.!	-1.	7.8	12.32	7.5	.0002	12.17	0.	SI
39.	39.	3. 1.	19066.	-5.	19.2	12.32	7.5	.0005	22.31	.001	SI
135.	135.	3. 1.	245203.	-6.1	246.9	12.32	7.5	.0071	22.31	.016	SI
225.	225.	3. 3.	623186.!	-10.5!	315.8!	24.63	7.5	.009	15.07	.014	SI
> 225.	0.	3. 3.	677776.!	-11.4!	343.4!	24.63	7.5	.0098	15.07	.015	SI
496.	271.	3. 2.	-195118.!	-2.4	191.3	12.32	7.5	.0055	12.17	.007	SI
586.	361.	3. 3.	-153803.	-1.5	76.8	24.63	7.5	.0022	9.99	.002	SI
> 586.	0.	3. 3.	-134022.	-1.3	66.9	24.63	7.5	.0019	9.99	.002	SI
676.	90.	3. 2.	-226147.!	-2.8	221.7	12.32	7.5	.0063	12.17	.008	SI
946.	361.	3. 3.	518754.!	-8.7!	262.9!	24.63	7.5	.0075	15.07	.011	SI
> 946.	0.	3. 3.	402623.!	-6.8!	204.!	24.63	7.5	.0058	15.07	.009	SI
1132.	186.	3. 1.	-11143.!	-2.	11.	12.32	7.5	.0003	12.17	0.	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve
> 20.	20.	3. 1.	-11474.!	-2.	11.3	12.32	7.5	.0003	12.17	0.	SI
39.	39.	3. 1.	13113.	-3.	13.2	12.32	7.5	.0004	22.31	.001	SI
135.	135.	3. 1.	205659.	-5.1	207.1	12.32	7.5	.0059	22.31	.013	SI
225.	225.	3. 3.	514579.!	-8.6!	260.7!	24.63	7.5	.0074	15.07	.011	SI
> 225.	0.	3. 3.	536825.!	-9.	272.!	24.63	7.5	.0078	15.07	.012	SI
531.	306.	3. 3.	-163197.!	-1.6	81.5	24.63	7.5	.0023	9.99	.002	SI
586.	361.	3. 3.	-138478.	-1.3	69.2	24.63	7.5	.002	9.99	.002	SI
> 586.	0.	3. 3.	-128159.	-1.2	64.	24.63	7.5	.0018	9.99	.002	SI
676.	90.	3. 2.	-190169.!	-2.4	186.5	12.32	7.5	.0053	12.17	.006	SI
946.	361.	3. 3.	407299.!	-6.8!	206.4!	24.63	7.5	.0059	15.07	.009	SI
> 946.	0.	3. 3.	333579.!	-5.6!	169.!	24.63	7.5	.0048	15.07	.007	SI
1132.	186.	3. 1.	-5305.!	-1.	5.2	12.32	7.5	.0001	12.17	0.	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve
> 20.	20.	3. 1.	-12355.!	-2.	12.2	12.32	7.5	.0003	12.17	0.	SI
39.	39.	3. 1.	11607.	-3.	11.7	12.32	7.5	.0003	22.31	.001	SI
135.	135.	3. 1.	195534.	-4.8	196.9	12.32	7.5	.0056	22.31	.013	SI
225.	225.	3. 3.	486822.!	-8.2!	246.7!	24.63	7.5	.007	15.07	.011	SI
> 225.	0.	3. 3.	500792.!	-8.4!	253.8!	24.63	7.5	.0073	15.07	.011	SI
531.	306.	3. 3.	-154934.!	-1.5	77.4	24.63	7.5	.0022	9.99	.002	SI
586.	361.	3. 3.	-133957.	-1.3	66.9	24.63	7.5	.0019	9.99	.002	SI
> 586.	0.	3. 3.	-126012.	-1.2	62.9	24.63	7.5	.0018	9.99	.002	SI
676.	90.	3. 2.	-180650.!	-2.3	177.1	12.32	7.5	.0051	12.17	.006	SI
946.	361.	3. 3.	378875.!	-6.4!	192.!	24.63	7.5	.0055	15.07	.008	SI
> 946.	0.	3. 3.	316108.!	-5.3!	160.2!	24.63	7.5	.0046	15.07	.007	SI
1132.	186.	3. 1.	-3845.!	-1.	3.8	12.32	7.5	.0001	12.17	0.	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	24.63	.448	12.32	.224	8d14	12.32	.224	8d14
2	36.95	.672	12.32	.224	8d14	24.63	.448	8d14 +8d14
3	49.26	.896	24.63	.448	8d14 +8d14	24.63	.448	8d14 +8d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 19 - Travata T019 (fondazione)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN; daN/cm; daN/cm2; deform. %.
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferri (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecud=.2% (limit.elastico)
ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
CLS : σ_c (rara)=149.4; σ_c (quasi permanente)=112. ; fbd(esercizio)= 26.9
ACCIAIO : σ_f (rara)=3600.; Coeff.Omogein.= 15
FESSURE : wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: 100/40x90/40; A=6000.; Jg=3650000.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A121	3	3	3	0	388.	353.	4.314	1.3	5.	145.157
2	A122	3	3	3	0	332.	302.	3.694	1.5	5.	167.489
3	A123	3	3	3	0	332.	302.	3.694	1.5	5.	167.489
4	A124	3	3	3	0	332.	302.	3.694	1.5	5.	167.489
5	A125	3	3	3	0	332.	302.	3.694	1.3	5.	145.157

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	
5.	SLU con SISMAX PRINC16	
8.	SLU FON con SISMAX P16	
9.	SLU FON con SISMAX P16	

Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	-68229.	-.001	.003	-3960743.	-.04	.186	2.	.176	58.05	SI
0.	0.	3. 1.	538654.	-.008	.026	3894459.	-.062	.186	2.	.25	7.23	SI
215.	215.	3. 1.	-410977.	-.004	.019	-3960743.	-.04	.186	2.	.176	9.637	SI
257.	257.	3. 1.	4573.	0.	0.	3894459.	-.062	.186	2.	.25	851.7	SI
298.	298.	3. 2.	-318002.	-.003	.015	-3988658.	-.036	.186	2.	.162	12.54	SI
298.	298.	3. 2.	121691.	-.001	.003	7533488.	-.101	.186	2.	.352	61.91	SI
334.	334.	3. 3.	-184960.	-.001	.004	-7818441.	-.056	.186	2.	.231	42.27	SI
334.	334.	3. 3.	378534.	-.004	.009	7724908.	-.086	.186	2.	.315	20.41	SI
388.	388.	3. 3.	495512.	-.005	.012	7724908.	-.086	.186	2.	.315	15.59	SI
> 388.	0.	3. 3.	597514.	-.006	.014	7724908.	-.086	.186	2.	.315	12.93	SI
427.	39.	3. 2.	-1281.	0.	0.	-3988658.	-.036	.186	2.	.162	3114.	SI
427.	39.	3. 2.	597514.	-.007	.015	7533488.	-.101	.186	2.	.352	12.61	SI
554.	166.	3. 1.	-161086.	-.002	.008	-3960743.	-.04	.186	2.	.176	24.59	SI
667.	278.	3. 3.	-70801.	0.	.002	-7818441.	-.056	.186	2.	.231	110.4	SI
721.	332.	3. 3.	387089.	-.004	.009	7724908.	-.086	.186	2.	.315	19.96	SI
> 721.	0.	3. 3.	380045.	-.004	.009	7724908.	-.086	.186	2.	.315	20.33	SI
760.	39.	3. 3.	-58495.	0.	.001	-7818441.	-.056	.186	2.	.231	133.7	SI
793.	72.	3. 2.	-147028.	-.001	.007	-3988658.	-.036	.186	2.	.162	27.13	SI
793.	72.	3. 2.	188715.	-.002	.005	7533488.	-.101	.186	2.	.352	39.92	SI
849.	128.	3. 1.	17789.	0.	.001	3894459.	-.062	.186	2.	.25	218.9	SI
887.	166.	3. 1.	-220600.	-.002	.01	-3960743.	-.04	.186	2.	.176	17.95	SI
1014.	293.	3. 3.	403091.	-.004	.01	7724908.	-.086	.186	2.	.315	19.16	SI
1053.	332.	3. 3.	403091.	-.004	.01	7724908.	-.086	.186	2.	.315	19.16	SI
> 1053.	0.	3. 3.	414193.	-.004	.01	7724908.	-.086	.186	2.	.315	18.65	SI
1092.	39.	3. 3.	-20223.	0.	0.	-7818441.	-.056	.186	2.	.231	386.6	SI
1125.	72.	3. 2.	-81921.	-.001	.004	-3988658.	-.036	.186	2.	.162	48.69	SI
1125.	72.	3. 2.	217277.	-.003	.005	7533488.	-.101	.186	2.	.352	34.67	SI
1219.	166.	3. 1.	-138157.	-.001	.006	-3960743.	-.04	.186	2.	.176	28.67	SI
1347.	293.	3. 3.	-14452.	0.	0.	-7818441.	-.056	.186	2.	.231	541.	SI
1347.	293.	3. 3.	464153.	-.005	.011	7724908.	-.086	.186	2.	.315	16.64	SI
1386.	332.	3. 3.	464153.	-.005	.011	7724908.	-.086	.186	2.	.315	16.64	SI
> 1386.	0.	3. 3.	467103.	-.005	.011	7724908.	-.086	.186	2.	.315	16.54	SI
1425.	39.	3. 3.	-55447.	0.	.001	-7818441.	-.056	.186	2.	.231	141.	SI
1458.	72.	3. 2.	-179100.	-.002	.008	-3988658.	-.036	.186	2.	.162	22.27	SI
1458.	72.	3. 2.	261680.	-.003	.006	7533488.	-.101	.186	2.	.352	28.79	SI
1590.	204.	3. 1.	-375001.	-.004	.018	-3960743.	-.04	.186	2.	.176	10.56	SI
1664.	278.	3. 1.	4371.	0.	0.	3894459.	-.062	.186	2.	.25	891.1	SI
1718.	332.	3. 1.	-261653.	-.003	.012	-3960743.	-.04	.186	2.	.176	15.14	SI
1718.	332.	3. 1.	29171.	0.	.001	3894459.	-.062	.186	2.	.25	133.5	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-10130.	10937.	76194.	51336.	1.01	15.	2.5
90.	90.	3.	-5349.	12761.	76194.	51336.	1.01	15.	2.5
388.	388.	3.	9532.	10937.	76194.	51336.	1.01	15.	2.5
> 388.	0.	3.	-8564.	10937.	76194.	51336.	1.01	15.	2.5
403.	15.	3.	-7840.	12761.	76194.	51336.	1.01	15.	2.5
721.	332.	3.	7137.	10937.	76194.	51336.	1.01	15.	2.5
> 721.	0.	3.	-7366.	10937.	76194.	51336.	1.01	15.	2.5
736.	15.	3.	-6685.	12761.	76194.	51336.	1.01	15.	2.5
1053.	332.	3.	7368.	10937.	76194.	51336.	1.01	15.	2.5
> 1053.	0.	3.	-6875.	10937.	76194.	51336.	1.01	15.	2.5
1068.	15.	3.	-6230.	12761.	76194.	51336.	1.01	15.	2.5
1386.	332.	3.	6996.	10937.	76194.	51336.	1.01	15.	2.5
> 1386.	0.	3.	-8082.	10937.	76194.	51336.	1.01	15.	2.5
1458.	72.	3.	-5257.	12761.	76194.	51336.	1.01	15.	2.5
1718.	332.	3.	4304.	10937.	76194.	51336.	1.01	15.	2.5

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
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> 0.	0.	3.	1.	379306.	-8.2	380.3	12.32	7.5	.0109	22.31	.024	SI
20.	20.	3.	1.	255289.	-5.5	256.	12.32	7.5	.0073	22.31	.016	SI
39.	39.	3.	1.	136543.	-2.9	136.9	12.32	7.5	.0039	22.31	.009	SI
215.	215.	3.	1.	-287611.	-3.9	283.7	12.32	7.5	.0081	13.62	.011	SI
388.	388.	3.	3.	346373.	-5.1	175.2	24.63	7.5	.005	15.07	.008	SI
> 388.	0.	3.	3.	416149.	-6.2	210.5	24.63	7.5	.006	15.07	.009	SI
554.	166.	3.	1.	-113204.	-1.5	111.7	12.32	7.5	.0032	13.62	.004	SI
721.	332.	3.	3.	276496.	-4.1	139.8	24.63	7.5	.004	15.07	.006	SI
> 721.	0.	3.	3.	271711.	-4.	137.4	24.63	7.5	.0039	15.07	.006	SI
887.	166.	3.	1.	-153902.	-2.1	151.8	12.32	7.5	.0043	13.62	.006	SI
1053.	332.	3.	3.	284148.	-4.2	143.7	24.63	7.5	.0041	15.07	.006	SI
>1053.	0.	3.	3.	292314.	-4.3	147.9	24.63	7.5	.0042	15.07	.006	SI
1219.	166.	3.	1.	-96263.	-1.3	95.	12.32	7.5	.0027	13.62	.004	SI
1386.	332.	3.	3.	330055.	-4.9	166.9	24.63	7.5	.0048	15.07	.007	SI
>1386.	0.	3.	3.	332947.	-4.9	168.4	24.63	7.5	.0048	15.07	.007	SI
1590.	204.	3.	1.	-261340.	-3.6	257.8	12.32	7.5	.0074	13.62	.01	SI
1718.	332.	3.	1.	-83298.	-1.1	82.2	12.32	7.5	.0023	13.62	.003	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	224772.	-4.8	225.4	12.32	7.5	.0064	22.31	.014	SI
20.	20.	3.	1.	145947.	-3.1	146.3	12.32	7.5	.0042	22.31	.009	SI
39.	39.	3.	1.	70472.	-1.5	70.7	12.32	7.5	.002	22.31	.005	SI
173.	173.	3.	1.	-194186.	-2.7	191.6	12.32	7.5	.0055	13.62	.007	SI
388.	388.	3.	3.	259442.	-3.9	131.2	24.63	7.5	.0037	15.07	.006	SI
> 388.	0.	3.	3.	290726.	-4.3	147.	24.63	7.5	.0042	15.07	.006	SI
554.	166.	3.	1.	-68939.	-9	68.	12.32	7.5	.0019	13.62	.003	SI
721.	332.	3.	3.	248145.	-3.7	125.5	24.63	7.5	.0036	15.07	.005	SI
> 721.	0.	3.	3.	243764.	-3.6	123.3	24.63	7.5	.0035	15.07	.005	SI
887.	166.	3.	1.	-94948.	-1.3	93.7	12.32	7.5	.0027	13.62	.004	SI
1053.	332.	3.	3.	235415.	-3.5	119.1	24.63	7.5	.0034	15.07	.005	SI
>1053.	0.	3.	3.	243120.	-3.6	123.	24.63	7.5	.0035	15.07	.005	SI
1219.	166.	3.	1.	-50238.	-7	49.6	12.32	7.5	.0014	13.62	.002	SI
1386.	332.	3.	3.	287983.	-4.3	145.7	24.63	7.5	.0042	15.07	.006	SI
>1386.	0.	3.	3.	295991.	-4.4	149.7	24.63	7.5	.0043	15.07	.006	SI
1590.	204.	3.	1.	-169666.	-2.3	167.4	12.32	7.5	.0048	13.62	.007	SI
1718.	332.	3.	1.	-64445.	-9	63.6	12.32	7.5	.0018	13.62	.002	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	185485.	-4.	186.	12.32	7.5	.0053	22.31	.012	SI
20.	20.	3.	1.	118164.	-2.5	118.5	12.32	7.5	.0034	22.31	.008	SI
173.	173.	3.	1.	-170596.	-2.3	168.3	12.32	7.5	.0048	13.62	.007	SI
388.	388.	3.	3.	237330.	-3.5	120.	24.63	7.5	.0034	15.07	.005	SI
> 388.	0.	3.	3.	258923.	-3.8	131.	24.63	7.5	.0037	15.07	.006	SI
554.	166.	3.	1.	-57632.	-8	56.9	12.32	7.5	.0016	13.62	.002	SI
721.	332.	3.	3.	240548.	-3.6	121.7	24.63	7.5	.0035	15.07	.005	SI
> 721.	0.	3.	3.	236311.	-3.5	119.5	24.63	7.5	.0034	15.07	.005	SI
887.	166.	3.	1.	-80016.	-1.1	78.9	12.32	7.5	.0023	13.62	.003	SI
1053.	332.	3.	3.	222642.	-3.3	112.6	24.63	7.5	.0032	15.07	.005	SI
>1053.	0.	3.	3.	230224.	-3.4	116.4	24.63	7.5	.0033	15.07	.005	SI
1219.	166.	3.	1.	-38696.	-5	38.2	12.32	7.5	.0011	13.62	.001	SI
1386.	332.	3.	3.	276765.	-4.1	140.	24.63	7.5	.004	15.07	.006	SI
>1386.	0.	3.	3.	286044.	-4.3	144.7	24.63	7.5	.0041	15.07	.006	SI
1590.	204.	3.	1.	-146457.	-2.	144.5	12.32	7.5	.0041	13.62	.006	SI
1718.	332.	3.	1.	-59601.	-8	58.8	12.32	7.5	.0017	13.62	.002	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	24.63	.411	12.32	.205	8d14	12.32	.205	8d14
2	36.95	.616	12.32	.205	8d14	24.63	.411	8d14 +8d14
3	49.26	.821	24.63	.411	8d14 +8d14	24.63	.411	8d14 +8d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 20 - Travata T020 (fondazione)
 Metodo di verifica : stati limite (NTC08).
 Duttilità : bassa con gerarchia.
 Unità di misura : cm; daN; daN/cm; daN/cm2; deform. %.
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
 gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecud=.2% (limit.elastico)
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.

CLS : σ_c (rara)=149.4; σ_c (quasi permanente)=112. ; fbd(esercizio)= 26.9
 ACCIAIO : σ_f (rara)=3600.; Coeff.Omoegin.= 15
 FESSURE : w_{dmax}(fre.)=.4 ; w_{dmax}(q.p.)=.3 [4.1.2.2.4.5];
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: 100/30x90/40; A=5500.; Jg=3054924.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A164	3	3	3	0	230.	210.	2.556	.4	5.	33.712
2	A165	3	3	3	0	219.	179.	2.43	1.5	5.	161.17
3	A166	3	3	3	0	409.	374.	4.549	1.5	5.	161.17
4	A167	3	3	3	0	217.	187.	2.41	1.5	5.	161.17
5	A168	3	3	3	0	286.	271.	3.179	.4	5.	33.712

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	
5.	SLU con SISMAX PRINC16	
8.	SLU FON con SISMAX P16	
9.	SLU FON con SISMAX P16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc1	Epsac	Mrd	Epsc1	Epsac	Cam	x/d	Mr/Ms	VE	
> 20.	20.	3.	1.	-1591080.	-.016	.075	-3960743.	-.04	.186	2.	.176	2.489	SI
171.	171.	3.	2.	-393736.	-.003	.009	-7818441.	-.056	.186	2.	.231	19.86	SI
171.	171.	3.	2.	515442.	-.006	.012	7716126.	-.097	.186	2.	.342	14.97	SI
191.	191.	3.	2.	773507.	-.009	.019	7716126.	-.097	.186	2.	.342	9.976	SI
210.	210.	3.	2.	-36045.	0.	.001	-7818441.	-.056	.186	2.	.231	216.9	SI
230.	230.	3.	2.	773507.	-.009	.019	7716126.	-.097	.186	2.	.342	9.976	SI
> 230.	0.	3.	2.	785445.	-.009	.019	7716126.	-.097	.186	2.	.342	9.824	SI
305.	75.	3.	1.	587932.	-.01	.028	3878119.	-.071	.186	2.	.277	6.596	SI
449.	219.	3.	2.	202154.	-.002	.005	7716126.	-.097	.186	2.	.342	38.17	SI
> 449.	0.	3.	2.	-132759.	-.001	.003	-7818441.	-.056	.186	2.	.231	58.89	SI
449.	0.	3.	2.	333057.	-.004	.008	7716126.	-.097	.186	2.	.342	23.17	SI
523.	75.	3.	3.	-241384.	-.002	.011	-3988658.	-.036	.186	2.	.162	16.52	SI
523.	75.	3.	3.	199413.	-.003	.005	7481095.	-.119	.186	2.	.389	37.52	SI
653.	205.	3.	1.	-315325.	-.003	.015	-3960743.	-.04	.186	2.	.176	12.56	SI
692.	243.	3.	1.	4720.	0.	0.	3878119.	-.071	.186	2.	.277	821.6	SI
819.	370.	3.	2.	605336.	-.007	.015	7716126.	-.097	.186	2.	.342	12.75	SI
858.	409.	3.	2.	605336.	-.007	.015	7716126.	-.097	.186	2.	.342	12.75	SI
> 858.	0.	3.	2.	712902.	-.008	.017	7716126.	-.097	.186	2.	.342	10.82	SI
930.	72.	3.	1.	561562.	-.01	.027	3878119.	-.071	.186	2.	.277	6.906	SI
1003.	145.	3.	1.	369974.	-.006	.018	3878119.	-.071	.186	2.	.277	10.48	SI
1021.	163.	3.	2.	401113.	-.005	.01	7716126.	-.097	.186	2.	.342	19.24	SI
1075.	217.	3.	2.	434367.	-.005	.01	7716126.	-.097	.186	2.	.342	17.76	SI
>1075.	0.	3.	2.	-70098.	0.	.002	-7818441.	-.056	.186	2.	.231	111.5	SI
1075.	0.	3.	2.	463441.	-.005	.011	7716126.	-.097	.186	2.	.342	16.65	SI
1147.	72.	3.	3.	-572168.	-.005	.027	-3988658.	-.036	.186	2.	.162	6.971	SI
1147.	72.	3.	3.	180329.	-.003	.004	7481095.	-.119	.186	2.	.389	41.49	SI
1322.	247.	3.	1.	-1498634.	-.015	.07	-3960743.	-.04	.186	2.	.176	2.643	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	7699.	8203.	57146.	51336.	1.01	15.	2.5	SI
115.	115.	3.	10150.	10534.	57146.	51336.	1.01	15.	2.5	SI
230.	230.	3.	13348.	8203.	57146.	51336.	1.01	15.	2.5	SI
> 230.	0.	3.	-6241.	8203.	57146.	51336.	1.01	15.	2.5	SI
289.	59.	3.	-4340.	10534.	57146.	51336.	1.01	15.	2.5	SI
449.	219.	3.	1101.	8203.	57146.	51336.	1.01	15.	2.5	SI
> 449.	0.	3.	-6079.	8203.	57146.	51336.	1.01	15.	2.5	SI
508.	59.	3.	-4121.	10534.	57146.	51336.	1.01	15.	2.5	SI
858.	409.	3.	8306.	8203.	57146.	51336.	1.01	15.	2.5	SI
> 858.	0.	3.	-5401.	8203.	57146.	51336.	1.01	15.	2.5	SI
873.	15.	3.	-4826.	10534.	57146.	51336.	1.01	15.	2.5	SI
1075.	217.	3.	2691.	8203.	57146.	51336.	1.01	15.	2.5	SI
>1075.	0.	3.	-11220.	8203.	57146.	51336.	1.01	15.	2.5	SI
1147.	72.	3.	-8845.	10534.	57146.	51336.	1.01	15.	2.5	SI
1361.	286.	3.	-2836.	8203.	57146.	35002.	1.01	22.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 20.	20.	3.	1.	-1014396.	-13.9	1000.7	12.32	7.5	.0355	12.17	.043	SI

39.	39.	3.	1.	-899819.	-12.3	887.7	12.32	7.5	.0301	12.17	.037	SI
39.	39.	3.	1.	-899819.	-12.3	887.7	12.32	7.5	.0301	12.17	.037	SI
65.	65.	3.	1.	-743010.	-10.2	733.	12.32	7.5	.0227	12.17	.028	SI
230.	230.	3.	2.	546141.	-9.2	276.7	24.63	7.5	.0079	15.07	.012	SI
> 230.	0.	3.	2.	555392.	-9.3	281.4	24.63	7.5	.008	15.07	.012	SI
305.	75.	3.	1.	290185.	-7.2	292.2	12.32	7.5	.0083	22.31	.019	SI
429.	199.	3.	2.	134908.	-2.3	68.4	24.63	7.5	.002	15.07	.003	SI
449.	219.	3.	2.	142198.	-2.4	72.1	24.63	7.5	.0021	15.07	.003	SI
> 449.	0.	3.	2.	165385.	-2.8	83.8	24.63	7.5	.0024	15.07	.004	SI
653.	205.	3.	1.	-223922.	-3.1	220.9	12.32	7.5	.0063	12.17	.008	SI
858.	409.	3.	2.	426094.	-7.2	215.9	24.63	7.5	.0062	15.07	.009	SI
> 858.	0.	3.	2.	505547.	-8.5	256.2	24.63	7.5	.0073	15.07	.011	SI
930.	72.	3.	1.	302956.	-7.5	305.1	12.32	7.5	.0087	22.31	.019	SI
1003.	145.	3.	1.	238543.	-5.9	240.2	12.32	7.5	.0069	22.31	.015	SI
1075.	217.	3.	2.	308816.	-5.2	156.5	24.63	7.5	.0045	15.07	.007	SI
>1075.	0.	3.	2.	330035.	-5.5	167.2	24.63	7.5	.0048	15.07	.007	SI
1342.	267.	3.	1.	-1016924.	-13.9	1003.2	12.32	7.5	.0356	12.17	.043	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 20.	20.	3.	1.	-757778.	-10.4	747.5	12.32	7.5	.0234	12.17	.029	SI
39.	39.	3.	1.	-673702.	-9.2	664.6	12.32	7.5	.0195	12.17	.024	SI
39.	39.	3.	1.	-673702.	-9.2	664.6	12.32	7.5	.0195	12.17	.024	SI
65.	65.	3.	1.	-558426.	-7.6	550.9	12.32	7.5	.0157	12.17	.019	SI
230.	230.	3.	2.	395726.	-6.7	200.5	24.63	7.5	.0057	15.07	.009	SI
> 230.	0.	3.	2.	404818.	-6.8	205.1	24.63	7.5	.0059	15.07	.009	SI
305.	75.	3.	1.	210089.	-5.2	211.6	12.32	7.5	.006	22.31	.013	SI
410.	180.	3.	2.	102805.	-1.7	52.1	24.63	7.5	.0015	15.07	.002	SI
449.	219.	3.	2.	112156.	-1.9	56.8	24.63	7.5	.0016	15.07	.002	SI
> 449.	0.	3.	2.	139690.	-2.3	70.8	24.63	7.5	.002	15.07	.003	SI
653.	205.	3.	1.	-170332.	-2.3	168.	12.32	7.5	.0048	12.17	.006	SI
858.	409.	3.	2.	329268.	-5.5	166.8	24.63	7.5	.0048	15.07	.007	SI
> 858.	0.	3.	2.	406358.	-6.8	205.9	24.63	7.5	.0059	15.07	.009	SI
930.	72.	3.	1.	244419.	-6.	246.1	12.32	7.5	.007	22.31	.016	SI
1003.	145.	3.	1.	190684.	-4.7	192.	12.32	7.5	.0055	22.31	.012	SI
1075.	217.	3.	2.	242462.	-4.1	122.9	24.63	7.5	.0035	15.07	.005	SI
>1075.	0.	3.	2.	261384.	-4.4	132.4	24.63	7.5	.0038	15.07	.006	SI
1342.	267.	3.	1.	-798325.	-10.9	787.5	12.32	7.5	.0253	12.17	.031	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 20.	20.	3.	1.	-692352.	-9.5	683.	12.32	7.5	.0204	12.17	.025	SI
39.	39.	3.	1.	-616043.	-8.4	607.7	12.32	7.5	.0174	12.17	.021	SI
39.	39.	3.	1.	-616043.	-8.4	607.7	12.32	7.5	.0174	12.17	.021	SI
65.	65.	3.	1.	-511343.	-7.	504.4	12.32	7.5	.0144	12.17	.018	SI
230.	230.	3.	2.	357472.	-6.	181.1	24.63	7.5	.0052	15.07	.008	SI
> 230.	0.	3.	2.	366547.	-6.2	185.7	24.63	7.5	.0053	15.07	.008	SI
305.	75.	3.	1.	189752.	-4.7	191.1	12.32	7.5	.0055	22.31	.012	SI
410.	180.	3.	2.	94470.	-1.6	47.9	24.63	7.5	.0014	15.07	.002	SI
449.	219.	3.	2.	104468.	-1.8	52.9	24.63	7.5	.0015	15.07	.002	SI
> 449.	0.	3.	2.	132818.	-2.2	67.3	24.63	7.5	.0019	15.07	.003	SI
653.	205.	3.	1.	-156707.	-2.1	154.6	12.32	7.5	.0044	12.17	.005	SI
858.	409.	3.	2.	304549.	-5.1	154.3	24.63	7.5	.0044	15.07	.007	SI
> 858.	0.	3.	2.	380638.	-6.4	192.9	24.63	7.5	.0055	15.07	.008	SI
930.	72.	3.	1.	229289.	-5.7	230.9	12.32	7.5	.0066	22.31	.015	SI
1003.	145.	3.	1.	178474.	-4.4	179.7	12.32	7.5	.0051	22.31	.011	SI
1075.	217.	3.	2.	225713.	-3.8	114.4	24.63	7.5	.0033	15.07	.005	SI
>1075.	0.	3.	2.	244048.	-4.1	123.7	24.63	7.5	.0035	15.07	.005	SI
1342.	267.	3.	1.	-742363.	-10.2	732.3	12.32	7.5	.0227	12.17	.028	SI

ARMATURE LONGITUDINALI (%=100*Af/AclS - AclS=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	24.63	.448	12.32	.224	8d14	12.32	.224	8d14
2	49.26	.896	24.63	.448	8d14 +8d14	24.63	.448	8d14 +8d14
3	36.95	.672	12.32	.224	8d14	24.63	.448	8d14 +8d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 21 - Travata T021 (fondazione)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
 gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecd=.2% (limit.elastico)
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.

CLS : σ_c (rara)=149.4; σ_c (quasi permanente)=112. ; fbd(esercizio)= 26.9ACCIAIO : σ_f (rara)=3600.; Coeff.Omogetin= 15FESSURE : w_{dmax}(fre.)=.4 ; w_{dmax}(q.p.)=.3 [4.1.2.2.4.5];
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: 100/30x90/40; A=5500.; Jg=3054924.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A150	3	3	3	0	429.	399.	4.766	1.3	5.	139.681
2	A151	3	3	3	0	346.	311.	3.843	1.3	5.	139.681

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	
5.	SLU con SISMAX PRINC16	
8.	SLU FON con SISMAX P16	
9.	SLU FON con SISMAX P16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	Se	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	-22864.	0.	.001	-3960743.	-.04	.186	2.	.176	173.2	SI
0.	0.	3. 1.	647894.	-.011	.031	3878119.	-.071	.186	2.	.277	5.986	SI
256.	256.	3. 1.	-486868.	-.005	.023	-3960743.	-.04	.186	2.	.176	8.135	SI
339.	339.	3. 1.	16487.	0.	.001	3878119.	-.071	.186	2.	.277	235.2	SI
357.	357.	3. 2.	-434454.	-.004	.02	-3988658.	-.036	.186	2.	.162	9.181	SI
357.	357.	3. 2.	73824.	-.001	.002	7481095.	-.119	.186	2.	.389	101.3	SI
414.	414.	3. 3.	179779.	-.002	.004	7716126.	-.097	.186	2.	.342	42.92	SI
429.	429.	3. 3.	-333713.	-.002	.008	-7818441.	-.056	.186	2.	.231	23.43	SI
429.	429.	3. 3.	179779.	-.002	.004	7716126.	-.097	.186	2.	.342	42.92	SI
> 429.	0.	3. 3.	-229524.	-.002	.005	-7818441.	-.056	.186	2.	.231	34.06	SI
429.	0.	3. 3.	81116.	-.001	.002	7716126.	-.097	.186	2.	.342	95.13	SI
501.	72.	3. 1.	11569.	0.	.001	3878119.	-.071	.186	2.	.277	335.2	SI
560.	131.	3. 1.	-272175.	-.003	.013	-3960743.	-.04	.186	2.	.176	14.55	SI
736.	307.	3. 1.	573498.	-.01	.027	3878119.	-.071	.186	2.	.277	6.762	SI
775.	346.	3. 1.	-75740.	-.001	.004	-3960743.	-.04	.186	2.	.176	52.29	SI
775.	346.	3. 1.	573498.	-.01	.027	3878119.	-.071	.186	2.	.277	6.762	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3. 1.	-9313.	8203.	57146.	51336.	1.01	15.	2.5
90.	90.	3. 1.	-5757.	10534.	57146.	51336.	1.01	15.	2.5
429.	429.	3. 1.	4932.	8203.	57146.	51336.	1.01	15.	2.5
> 429.	0.	3. 1.	-3422.	8203.	57146.	51336.	1.01	15.	2.5
519.	90.	3. 1.	-1376.	10534.	57146.	51336.	1.01	15.	2.5
775.	346.	3. 1.	7678.	8203.	57146.	51336.	1.01	15.	2.5

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	451186.	-11.2	454.4	12.32	7.5	.013	22.31	.029	SI
54.	54.	3. 1.	138696.	-3.4	139.7	12.32	7.5	.004	22.31	.009	SI
256.	256.	3. 1.	-346624.	-4.7	341.9	12.32	7.5	.0098	12.17	.012	SI
429.	429.	3. 3.	-52458.	-.5	26.2	24.63	7.5	.0007	9.99	.001	SI
> 429.	0.	3. 3.	-56444.	-.5	28.2	24.63	7.5	.0008	9.99	.001	SI
560.	131.	3. 1.	-193560.	-2.6	190.9	12.32	7.5	.0055	12.17	.007	SI
775.	346.	3. 1.	406636.	-10.1	409.5	12.32	7.5	.0117	22.31	.026	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	324864.	-8.	327.1	12.32	7.5	.0093	22.31	.021	SI
54.	54.	3. 1.	87192.	-2.2	87.8	12.32	7.5	.0025	22.31	.006	SI
256.	256.	3. 1.	-279188.	-3.8	275.4	12.32	7.5	.0079	12.17	.01	SI
429.	429.	3. 3.	-60827.	-.6	30.4	24.63	7.5	.0009	9.99	.001	SI
> 429.	0.	3. 3.	-66457.	-.6	33.2	24.63	7.5	.0009	9.99	.001	SI
560.	131.	3. 1.	-156221.	-2.1	154.1	12.32	7.5	.0044	12.17	.005	SI
775.	346.	3. 1.	313246.	-7.7	315.4	12.32	7.5	.009	22.31	.02	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	292915.!	-7.2!	295.	12.32	7.5	.0084	22.31	.019	SI
54.	54.	3. 1.	74344.!	-1.8!	74.9	12.32	7.5	.0021	22.31	.005	SI
256.	256.	3. 1.	-261636.!	-3.6!	258.1	12.32	7.5	.0074	12.17	.009	SI
429.	429.	3. 3.	-62152.!	-.6!	31.	24.63	7.5	.0009	9.99	.001	SI
> 429.	0.	3. 3.	-68245.!	-.7!	34.1	24.63	7.5	.001	9.99	.001	SI
519.	90.	3. 1.	-147224.!	-2.	145.2	12.32	7.5	.0041	12.17	.005	SI
775.	346.	3. 1.	289716.!	-7.2!	291.8	12.32	7.5	.0083	22.31	.019	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	24.63	.448	12.32	.224	8d14	12.32	.224	8d14
2	36.95	.672	12.32	.224	8d14	24.63	.448	8d14 +8d14
3	49.26	.896	24.63	.448	8d14 +8d14	24.63	.448	8d14 +8d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 22 - Travata T022 (fondazione)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
 gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecd=.2% (limit.elastico)
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS : σ_c (rara)=149.4; σ_c (quasi permanente)=112. ; fbd(esercizio)= 26.9
 ACCIAIO : σ_f (rara)=3600.; Coeff.omegin.= 15
 FESSURE : wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: 100/40x90/40; A=6000.; Jg=3650000.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A159	3	3	3	0	625.	555.	6.944	1.3	5.	145.157
2	A160	3	3	3	0	625.	555.	6.944	1.3	5.	145.157

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	
5.	SLU con SISMAX PRINC16	
8.	SLU FON con SISMAX P16	
9.	SLU FON con SISMAX P16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epscl	Epsac	Mrd	Epscl	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	-115034.	-.001	.005	-3960743.	-.04	.186	2.	.176	34.43	SI
0.	0.	3. 1.	468978.	-.007	.022	3894459.	-.062	.186	2.	.25	8.304	SI
357.	357.	3. 1.	30356.	0.	.001	3894459.	-.062	.186	2.	.25	128.3	SI
491.	491.	3. 2.	-403525.	-.004	.019	-3972511.	-.038	.186	2.	.17	9.845	SI
535.	535.	3. 3.	633487.	-.006	.013	9099235.	-.098	.186	2.	.344	14.36	SI
541.	541.	3. 3.	-406667.	-.003	.01	-7843755.	-.054	.186	2.	.225	19.29	SI
586.	586.	3. 3.	857523.	-.009	.017	9099235.	-.098	.186	2.	.344	10.61	SI
625.	625.	3. 3.	-402893.	-.003	.01	-7843755.	-.054	.186	2.	.225	19.47	SI
625.	625.	3. 3.	857523.	-.009	.017	9099235.	-.098	.186	2.	.344	10.61	SI
> 625.	0.	3. 3.	-355125.	-.002	.008	-7843755.	-.054	.186	2.	.225	22.09	SI
625.	0.	3. 3.	891355.	-.009	.018	9099235.	-.098	.186	2.	.344	10.21	SI
760.	134.	3. 2.	-366369.	-.003	.017	-3972511.	-.038	.186	2.	.17	10.84	SI
893.	268.	3. 1.	28183.	0.	.001	3894459.	-.062	.186	2.	.25	138.2	SI
938.	312.	3. 1.	-429378.	-.004	.02	-3960743.	-.04	.186	2.	.176	9.224	SI
1250.	625.	3. 1.	-178298.	-.002	.008	-3960743.	-.04	.186	2.	.176	22.21	SI
1250.	625.	3. 1.	347017.	-.005	.017	3894459.	-.062	.186	2.	.25	11.22	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-5593.!	10937.!	76194.!	51336.!	1.01	15.	2.5
90.	90.	3.	-3559.!	12761.!	76194.!	51336.!	1.01	15.	2.5
625.	625.	3.	4736.!	10937.!	76194.!	51336.!	1.01	15.	2.5
> 625.	0.	3.	-4924.!	10937.!	76194.!	51336.!	1.01	15.	2.5
664.	39.	3.	-4577.!	12761.!	76194.!	51336.!	1.01	15.	2.5
1250.	625.	3.	5619.!	10937.!	76194.!	51336.!	1.01	15.	2.5

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	1.	262110.!	-5.7!	262.8!	12.32	7.5	.0075	22.31	.017
39.	39.	3.	1.	130917.!	-2.8!	131.3!	12.32	7.5	.0038	22.31	.008
77.	77.	3.	1.	3830.!	-1.	3.8!	12.32	7.5	.0001	22.31	0.
313.	313.	3.	1.	-279443.!	-3.8!	275.7!	12.32	7.5	.0079	13.62	.011
625.	625.	3.	3.	164079.!	-2.3!	70.4!	29.25	7.5	.002	13.92	.003
> 625.	0.	3.	3.	194056.!	-2.7!	83.2!	29.25	7.5	.0024	13.92	.003
938.	312.	3.	1.	-304236.!	-4.2!	300.1!	12.32	7.5	.0086	13.62	.012
1250.	625.	3.	1.	192893.!	-4.2!	193.4!	12.32	7.5	.0055	22.31	.012

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	1.	219196.!	-4.7!	219.8!	12.32	7.5	.0063	22.31	.014
39.	39.	3.	1.	115149.!	-2.5!	115.5!	12.32	7.5	.0033	22.31	.007
64.	64.	3.	1.	48707.!	-1.1!	48.8!	12.32	7.5	.0014	22.31	.003
313.	313.	3.	1.	-215315.!	-2.9!	212.4!	12.32	7.5	.0061	13.62	.008
625.	625.	3.	3.	216851.!	-3.1!	93.	29.25	7.5	.0027	13.92	.004
> 625.	0.	3.	3.	258349.!	-3.7!	110.8!	29.25	7.5	.0032	13.92	.004
982.	357.	3.	1.	-232534.!	-3.2!	229.4!	12.32	7.5	.0066	13.62	.009
1250.	625.	3.	1.	129819.!	-2.8!	130.2!	12.32	7.5	.0037	22.31	.008

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	1.	208303.!	-4.5!	208.9!	12.32	7.5	.006	22.31	.013
39.	39.	3.	1.	111096.!	-2.4!	111.4!	12.32	7.5	.0032	22.31	.007
64.	64.	3.	1.	49023.!	-1.1!	49.2!	12.32	7.5	.0014	22.31	.003
313.	313.	3.	1.	-199210.!	-2.7!	196.5!	12.32	7.5	.0056	13.62	.008
625.	625.	3.	3.	230060.!	-3.3!	98.7!	29.25	7.5	.0028	13.92	.004
> 625.	0.	3.	3.	274547.!	-3.9!	117.8!	29.25	7.5	.0034	13.92	.005
982.	357.	3.	1.	-215683.!	-3.	212.8!	12.32	7.5	.0061	13.62	.008
1250.	625.	3.	1.	113952.!	-2.5!	114.3!	12.32	7.5	.0033	22.31	.007

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	24.63	.411	12.32	.205	8d14	12.32	.205	8d14
2	29.25	.487	12.32	.205	8d14	16.93	.282	3d14 +8d14
3	53.88	.898	24.63	.411	8d14 +8d14	29.25	.487	3d14 +8d14 +8d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 24 - Travata T024 (fondazione)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN; daN/cm; daN/cm2; deform. %.
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferri (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
 gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecud=.2% (limit.elastico)
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS : σc (rara)=149.4; σc (quasi permanente)=112. ; fbd(esercizio)= 26.9
 ACCIAIO : σf (rara)=3600.; Coeff.Omogein.= 15
 FESSURE : wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: 100/40x90/40; A=6000.; Jg=3650000.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A296	3	3	3	0	332.	292.	3.694	1.3	5.	145.157
2	A297	3	3	3	0	332.	302.	3.694	1.5	5.	167.489
3	A298	3	3	3	0	332.	302.	3.694	1.3	5.	145.157

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	
5.	SLU con SISMAX PRINC16	
8.	SLU FON con SISMAX P16	
9.	SLU FON con SISMAX P16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	-78997.	-.001	.004	-3960743.	-.04	.186	2.	.176	50.14	SI
0.	0.	3. 1.	335138.	-.005	.016	3894459.	-.062	.186	2.	.25	11.62	SI
128.	128.	3. 1.	-144515.	-.001	.007	-3960743.	-.04	.186	2.	.176	27.41	SI
242.	242.	3. 2.	-90592.	-.001	.004	-3988658.	-.036	.186	2.	.162	44.03	SI
242.	242.	3. 2.	231761.	-.003	.006	7533488.	-.101	.186	2.	.352	32.51	SI
278.	278.	3. 3.	-35007.	0.	.001	-7818441.	-.056	.186	2.	.231	223.3	SI
278.	278.	3. 3.	435964.	-.005	.01	7724908.	-.086	.186	2.	.315	17.72	SI
293.	293.	3. 3.	-5507.	0.	0.	-7818441.	-.056	.186	2.	.231	1420.	SI
293.	293.	3. 3.	531506.	-.006	.013	7724908.	-.086	.186	2.	.315	14.53	SI
332.	332.	3. 3.	531506.	-.006	.013	7724908.	-.086	.186	2.	.315	14.53	SI
> 332.	0.	3. 3.	525969.	-.005	.013	7724908.	-.086	.186	2.	.315	14.69	SI
387.	54.	3. 3.	-19670.	0.	0.	-7818441.	-.056	.186	2.	.231	397.5	SI
499.	166.	3. 1.	-67178.	-.001	.003	-3960743.	-.04	.186	2.	.176	58.96	SI
575.	242.	3. 2.	-48839.	0.	.002	-3988658.	-.036	.186	2.	.162	81.67	SI
575.	242.	3. 2.	235817.	-.003	.006	7533488.	-.101	.186	2.	.352	31.95	SI
611.	278.	3. 2.	-6187.	0.	0.	-3988658.	-.036	.186	2.	.162	644.7	SI
665.	332.	3. 3.	505919.	-.005	.012	7724908.	-.086	.186	2.	.315	15.27	SI
> 665.	0.	3. 3.	504551.	-.005	.012	7724908.	-.086	.186	2.	.315	15.31	SI
704.	39.	3. 3.	-36224.	0.	.001	-7818441.	-.056	.186	2.	.231	215.8	SI
737.	72.	3. 2.	-162604.	-.001	.008	-3988658.	-.036	.186	2.	.162	24.53	SI
737.	72.	3. 2.	279386.	-.003	.007	7533488.	-.101	.186	2.	.352	26.96	SI
831.	166.	3. 1.	3219.	0.	0.	3894459.	-.062	.186	2.	.25	1210.	SI
869.	204.	3. 1.	-369082.	-.004	.017	-3960743.	-.04	.186	2.	.176	10.73	SI
998.	332.	3. 1.	-259471.	-.003	.012	-3960743.	-.04	.186	2.	.176	15.27	SI
998.	332.	3. 1.	52451.	-.001	.003	3894459.	-.062	.186	2.	.25	74.25	SI

TAGLIO:

Progressive	Se	Ar	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-5568.	10937.	76194.	51336.	1.01	15.	2.5	SI
90.	90.	3.	-2333.	12761.	76194.	51336.	1.01	15.	2.5	SI
332.	332.	3.	7219.	10937.	76194.	51336.	1.01	15.	2.5	SI
> 332.	0.	3.	-6937.	10937.	76194.	51336.	1.01	15.	2.5	SI
348.	15.	3.	-6319.	12761.	76194.	51336.	1.01	15.	2.5	SI
665.	332.	3.	6780.	10937.	76194.	51336.	1.01	15.	2.5	SI
> 665.	0.	3.	-8307.	10937.	76194.	51336.	1.01	15.	2.5	SI
737.	72.	3.	-5437.	12761.	76194.	51336.	1.01	15.	2.5	SI
998.	332.	3.	4358.	10937.	76194.	51336.	1.01	15.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	220413.	-4.8	221.	12.32	7.5	.0063	22.31	.014	SI
25.	25.	3. 1.	135128.	-2.9	135.5	12.32	7.5	.0039	22.31	.009	SI
39.	39.	3. 1.	86857.	-1.9	87.1	12.32	7.5	.0025	22.31	.006	SI
166.	166.	3. 1.	-78398.	-1.1	77.3	12.32	7.5	.0022	13.62	.003	SI
332.	332.	3. 3.	373917.	-5.6	189.1	24.63	7.5	.0054	15.07	.008	SI
> 332.	0.	3. 3.	370267.	-5.5	187.3	24.63	7.5	.0054	15.07	.008	SI
499.	166.	3. 1.	-38805.	-5	38.3	12.32	7.5	.0011	13.62	.001	SI
665.	332.	3. 3.	359376.	-5.3	181.8	24.63	7.5	.0052	15.07	.008	SI
> 665.	0.	3. 3.	359055.	-5.3	181.6	24.63	7.5	.0052	15.07	.008	SI
869.	204.	3. 1.	-257284.	-3.5	253.8	12.32	7.5	.0073	13.62	.01	SI
998.	332.	3. 1.	-79762.	-1.1	78.7	12.32	7.5	.0022	13.62	.003	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	174305.	-3.8	174.8	12.32	7.5	.005	22.31	.011	SI
25.	25.	3. 1.	108480.	-2.3	108.8	12.32	7.5	.0031	22.31	.007	SI
166.	166.	3. 1.	-55880.	-.8	55.1	12.32	7.5	.0016	13.62	.002	SI
332.	332.	3. 3.	295859.	-4.4	149.6	24.63	7.5	.0043	15.07	.006	SI
> 332.	0.	3. 3.	294363.	-4.4	148.9	24.63	7.5	.0043	15.07	.006	SI
499.	166.	3. 1.	-9056.	-1	8.9	12.32	7.5	.0003	13.62	0.	SI

665.	332.	3.	3.	310328.!	-4.6!	157.	24.63	7.5	.0045	15.07	.007!	SI
> 665.	0.	3.	3.	315052.!	-4.7!	159.4	24.63	7.5	.0046	15.07	.007!	SI
869.	204.	3.	1.	-166481.!	-2.3	164.2	12.32	7.5	.0047	13.62	.006	SI
998.	332.	3.	1.	-60328.	-.8	59.5	12.32	7.5	.0017	13.62	.002	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	Wd	Ve	
> 0.	0.	3.	1.	162282.	-3.5	162.7	12.32	7.5	.0046	22.31	.01	SI
25.	25.	3.	1.	101458.	-2.2	101.7	12.32	7.5	.0029	22.31	.006	SI
166.	166.	3.	1.	-50270.!	-.7	49.6	12.32	7.5	.0014	13.62	.002	SI
332.	332.	3.	3.	275554.!	-4.1	139.4	24.63	7.5	.004	15.07	.006	SI
> 332.	0.	3.	3.	274610.	-4.1	138.9	24.63	7.5	.004	15.07	.006	SI
499.	166.	3.	1.	-1703.!	0.	1.7	12.32	7.5	0.	13.62	0.	SI
665.	332.	3.	3.	297305.!	-4.4	150.4	24.63	7.5	.0043	15.07	.006	SI
> 665.	0.	3.	3.	303287.!	-4.5	153.4	24.63	7.5	.0044	15.07	.007	SI
908.	242.	3.	1.	-143957.!	-2.	142.	12.32	7.5	.0041	13.62	.006	SI
998.	332.	3.	1.	-55340.	-.8	54.6	12.32	7.5	.0016	13.62	.002	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	24.63	.411	12.32	.205	8d14	12.32	.205	8d14
2	36.95	.616	12.32	.205	8d14	24.63	.411	8d14 +8d14
3	49.26	.821	24.63	.411	8d14 +8d14	24.63	.411	8d14 +8d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 26 - Travata T026 (fondazione)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN/cm; daN/cm; daN/cm2; deform. %.
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
 gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecd=.2% (limit.elastico)
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS : σ_c (rara)=149.4; σ_c (quasi permanente)=112. ; fbd(esercizio)= 26.9
 ACCIAIO : σ_f (rara)=3600.; Coeff.Omogein.= 15
 FESSURE : wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: 100/30x90/40; A=5500.; Jg=3054924.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A136	3	3	3	0	423.	388.	4.701	1.3	5.	139.681
2	A137	3	3	3	0	285.	250.	3.167	1.5	5.	161.17
3	A138	3	3	3	0	680.	640.	7.556	1.5	5.	161.17
4	A139	3	3	3	0	375.	340.	4.167	1.3	5.	139.681

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	
5.	SLU con SISMAX PRINC16	
8.	SLU FON con SISMAX P16	
9.	SLU FON con SISMAX P16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	Se	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	-310248.	-.003	.015	-3960743.	-.04	.186	2.	.176	12.77	SI
0.	0.	3. 1.	136217.	-.002	.007	3878119.	-.071	.186	2.	.277	28.47	SI
171.	171.	3. 1.	-528630.	-.005	.025	-3960743.	-.04	.186	2.	.176	7.492	SI
333.	333.	3. 2.	-235303.	-.002	.011	-3988658.	-.036	.186	2.	.162	16.95	SI
333.	333.	3. 2.	246230.	-.003	.006	7481095.	-.119	.186	2.	.389	30.38	SI
384.	384.	3. 3.	-19292.	0.	0.	-7818441.	-.056	.186	2.	.231	405.3	SI
384.	384.	3. 3.	695046.	-.008	.017	7716126.	-.097	.186	2.	.342	11.1	SI
423.	423.	3. 3.	695046.	-.008	.017	7716126.	-.097	.186	2.	.342	11.1	SI
> 423.	0.	3. 3.	721805.	-.008	.017	7716126.	-.097	.186	2.	.342	10.69	SI
477.	54.	3. 1.	657825.	-.012	.032	3878119.	-.071	.186	2.	.277	5.895	SI
548.	125.	3. 1.	520543.	-.009	.025	3878119.	-.071	.186	2.	.277	7.45	SI
649.	226.	3. 1.	1013043.	-.018	.049	3878119.	-.071	.186	2.	.277	3.828	SI
669.	246.	3. 3.	1159464.	-.014	.028	7716126.	-.097	.186	2.	.342	6.655	SI
708.	285.	3. 3.	1159464.	-.014	.028	7716126.	-.097	.186	2.	.342	6.655	SI
> 708.	0.	3. 3.	1012477.	-.012	.024	7716126.	-.097	.186	2.	.342	7.621	SI
767.	59.	3. 2.	-49022.	0.	.002	-3988658.	-.036	.186	2.	.162	81.36	SI
767.	59.	3. 2.	808699.	-.012	.02	7481095.	-.119	.186	2.	.389	9.251	SI
1025.	317.	3. 1.	-862320.	-.008	.04	-3960743.	-.04	.186	2.	.176	4.593	SI
1329.	621.	3. 1.	847975.	-.015	.041	3878119.	-.071	.186	2.	.277	4.573	SI
1349.	641.	3. 3.	1038337.	-.012	.025	7716126.	-.097	.186	2.	.342	7.431	SI
1388.	680.	3. 3.	1038337.	-.012	.025	7716126.	-.097	.186	2.	.342	7.431	SI
> 1388.	0.	3. 3.	1196046.	-.014	.029	7716126.	-.097	.186	2.	.342	6.451	SI
1447.	59.	3. 1.	1006073.	-.018	.048	3878119.	-.071	.186	2.	.277	3.855	SI
1673.	285.	3. 1.	-229675.	-.002	.011	-3960743.	-.04	.186	2.	.176	17.25	SI
1724.	336.	3. 1.	4167.	0.	0.	3878119.	-.071	.186	2.	.277	930.6	SI
1763.	375.	3. 1.	-181994.	-.002	.009	-3960743.	-.04	.186	2.	.176	21.76	SI
1763.	375.	3. 1.	4167.	0.	0.	3878119.	-.071	.186	2.	.277	930.6	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-5547.	8203.	57146.	51336.	1.01	15.	2.5	SI
90.	90.	3.	-2590.	10534.	57146.	51336.	1.01	15.	2.5	SI
423.	423.	3.	10062.	10534.	57146.	51336.	1.01	15.	2.5	SI
> 423.	0.	3.	-5064.	10534.	57146.	51336.	1.01	15.	2.5	SI
708.	285.	3.	8104.	8203.	57146.	51336.	1.01	15.	2.5	SI
> 708.	0.	3.	-12049.	8203.	57146.	51336.	1.01	15.	2.5	SI
767.	59.	3.	-9627.	10534.	57146.	51336.	1.01	15.	2.5	SI
1388.	680.	3.	11400.	8203.	57146.	51336.	1.01	15.	2.5	SI
> 1388.	0.	3.	-10368.	8203.	57146.	51336.	1.01	15.	2.5	SI
1463.	75.	3.	-7567.	10534.	57146.	51336.	1.01	15.	2.5	SI
1763.	375.	3.	3430.	8203.	57146.	51336.	1.01	15.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
20.	20.	3. 1.	-119034.	-1.6	117.4	12.32	7.5	.0034	12.17	.004	SI
39.	39.	3. 1.	-182683.	-2.5	180.2	12.32	7.5	.0051	12.17	.006	SI
171.	171.	3. 1.	-377996.	-5.2	372.9	12.32	7.5	.0107	12.17	.013	SI
423.	423.	3. 3.	494133.	-8.3	250.4	24.63	7.5	.0072	15.07	.011	SI
> 423.	0.	3. 3.	513699.	-8.6	260.3	24.63	7.5	.0074	15.07	.011	SI
548.	125.	3. 1.	326386.	-8.1	328.7	12.32	7.5	.0094	22.31	.021	SI
649.	226.	3. 1.	553105.	-13.7	557.	12.32	7.5	.0159	22.31	.036	SI
708.	285.	3. 3.	838859.	-14.1	425.1	24.63	7.5	.0121	15.07	.018	SI
> 708.	0.	3. 3.	729012.	-12.3	369.4	24.63	7.5	.0106	15.07	.016	SI
1025.	317.	3. 1.	-618734.	-8.5	610.4	12.32	7.5	.0174	12.17	.021	SI
1329.	621.	3. 1.	332509.	-8.2	334.8	12.32	7.5	.0096	22.31	.021	SI
1388.	680.	3. 3.	754442.	-12.7	382.3	24.63	7.5	.0109	15.07	.016	SI
> 1388.	0.	3. 3.	873059.	-14.7	442.4	24.63	7.5	.0126	15.07	.019	SI
1447.	59.	3. 1.	483582.	-12.	487.	12.32	7.5	.0139	22.31	.031	SI
1673.	285.	3. 1.	-161716.	-2.2	159.5	12.32	7.5	.0046	12.17	.006	SI
1763.	375.	3. 1.	-52843.	-.7	52.1	12.32	7.5	.0015	12.17	.002	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
20.	20.	3. 1.	-104086.	-1.4	102.7	12.32	7.5	.0029	12.17	.004	SI
39.	39.	3. 1.	-153683.	-2.1	151.6	12.32	7.5	.0043	12.17	.005	SI
171.	171.	3. 1.	-304792.	-4.2	300.7	12.32	7.5	.0086	12.17	.01	SI
423.	423.	3. 3.	410263.	-6.9	207.9	24.63	7.5	.0059	15.07	.009	SI
> 423.	0.	3. 3.	427956.	-7.2	216.8	24.63	7.5	.0062	15.07	.009	SI
513.	90.	3. 1.	281279.	-7.	283.3	12.32	7.5	.0081	22.31	.018	SI
649.	226.	3. 1.	484696.	-12.	488.1	12.32	7.5	.0139	22.31	.031	SI
708.	285.	3. 3.	732051.	-12.3	370.9	24.63	7.5	.0106	15.07	.016	SI
> 708.	0.	3. 3.	624507.	-10.5	316.4	24.63	7.5	.009	15.07	.014	SI
1025.	317.	3. 1.	-518780.	-7.1	511.8	12.32	7.5	.0146	12.17	.018	SI
1329.	621.	3. 1.	321309.	-7.9	323.6	12.32	7.5	.0092	22.31	.021	SI
1388.	680.	3. 3.	688484.	-11.6	348.9	24.63	7.5	.01	15.07	.015	SI
> 1388.	0.	3. 3.	810253.	-13.6	410.6	24.63	7.5	.0117	15.07	.018	SI
1447.	59.	3. 1.	477216.	-11.8	480.6	12.32	7.5	.0137	22.31	.031	SI
1673.	285.	3. 1.	-111555.	-1.5	110.	12.32	7.5	.0031	12.17	.004	SI
1763.	375.	3. 1.	-68582.	-.9	67.7	12.32	7.5	.0019	12.17	.002	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
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20.	20.	3.	1.	-99787.	-1.4	98.4	12.32	7.5	.0028	12.17	.003	SI
39.	39.	3.	1.	-145793.	-2.	143.8	12.32	7.5	.0041	12.17	.005	SI
171.	171.	3.	1.	-285694.	-3.9	281.8	12.32	7.5	.0081	12.17	.01	SI
423.	423.	3.	3.	387857.	-6.5	196.5	24.63	7.5	.0056	15.07	.008	SI
> 423.	0.	3.	3.	404976.	-6.8	205.2	24.63	7.5	.0059	15.07	.009	SI
513.	90.	3.	1.	268539.	-6.6	270.4	12.32	7.5	.0077	22.31	.017	SI
649.	226.	3.	1.	465845.	-11.5	469.1	12.32	7.5	.0134	22.31	.03	SI
708.	285.	3.	3.	702808.	-11.8	356.1	24.63	7.5	.0102	15.07	.015	SI
> 708.	0.	3.	3.	596401.	-10.	302.2	24.63	7.5	.0086	15.07	.013	SI
1025.	317.	3.	1.	-492127.	-6.7	485.5	12.32	7.5	.0139	12.17	.017	SI
1329.	621.	3.	1.	317266.	-7.8	319.5	12.32	7.5	.0091	22.31	.02	SI
1388.	680.	3.	3.	669505.	-11.3	339.2	24.63	7.5	.0097	15.07	.015	SI
>1388.	0.	3.	3.	791506.	-13.3	401.1	24.63	7.5	.0115	15.07	.017	SI
1447.	59.	3.	1.	473712.	-11.7	477.	12.32	7.5	.0136	22.31	.03	SI
1709.	321.	3.	1.	-101908.	-1.4	100.5	12.32	7.5	.0029	12.17	.003	SI
1763.	375.	3.	1.	-72099.	-1.	71.1	12.32	7.5	.002	12.17	.002	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	24.63	.448	12.32	.224	8d14	12.32	.224	8d14
2	36.95	.672	12.32	.224	8d14	24.63	.448	8d14 +8d14
3	49.26	.896	24.63	.448	8d14 +8d14	24.63	.448	8d14 +8d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 27 - Travata T027 (fondazione)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN; daN/cm; daN/cm2; deform. %.
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecu=2.2% (limit.elastico)
ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=.19% (limit.elastico)

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
CLS : σ_c (rara)=149.4; σ_c (quasi permanente)=112. ; fbd(esercizio)= 26.9
ACCIAIO : σ_f (rara)=3600.; Coeff.Omoegin.= 15
FESSURE : wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) A T rovescio: 100/30X90/40; A=5500.; Jg=3054924.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A161	3	3	3	0	410.	365.	4.556	1.3	5.	139.681
2	A162	3	3	3	0	250.	210.	2.778	1.5	5.	161.17
3	A163	3	3	3	0	410.	365.	4.556	1.3	5.	139.681

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	
5.	SLU con SISMAX PRINC16	
8.	SLU FON con SISMAX P16	
9.	SLU FON con SISMAX P16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-433754.	-.004	.02	-3960743.	-.04	.186	2.	.176	9.131	SI
0.	0.	3.	1.	475909.	-.008	.023	3878119.	-.071	.186	2.	.277	8.149	SI
205.	205.	3.	1.	-499044.	-.005	.023	-3960743.	-.04	.186	2.	.176	7.937	SI
351.	351.	3.	2.	-223318.	-.002	.01	-3988658.	-.036	.186	2.	.162	17.86	SI
351.	351.	3.	2.	260146.	-.004	.006	7481095.	-.119	.186	2.	.389	28.76	SI
371.	371.	3.	3.	380243.	-.004	.009	7716126.	-.097	.186	2.	.342	20.29	SI
410.	410.	3.	3.	-46685.	0.	.001	-7818441.	-.056	.186	2.	.231	167.5	SI

410.	410.	3.	3.	380243.	-.004	.009	7716126.	-.097	.186	2.	.342	20.29	SI
> 410.	0.	3.	3.	-10488.	0.	0.	-7818441.	-.056	.186	2.	.231	745.5	SI
410.	0.	3.	3.	427255.	-.005	.01	7716126.	-.097	.186	2.	.342	18.06	SI
430.	20.	3.	3.	-8974.	0.	0.	-7818441.	-.056	.186	2.	.231	871.2	SI
485.	75.	3.	1.	-9723.	0.	0.	-3960743.	-.04	.186	2.	.176	407.3	SI
485.	75.	3.	1.	292220.	-.005	.014	3878119.	-.071	.186	2.	.277	13.27	SI
660.	250.	3.	3.	-15007.	0.	0.	-7818441.	-.056	.186	2.	.231	521.	SI
660.	250.	3.	3.	409639.	-.005	.01	7716126.	-.097	.186	2.	.342	18.84	SI
> 660.	0.	3.	3.	-48054.	0.	.001	-7818441.	-.056	.186	2.	.231	162.7	SI
660.	0.	3.	3.	388264.	-.005	.009	7716126.	-.097	.186	2.	.342	19.87	SI
719.	59.	3.	2.	-233426.	-.002	.011	-3988658.	-.036	.186	2.	.162	17.09	SI
719.	59.	3.	2.	267612.	-.004	.007	7481095.	-.119	.186	2.	.389	27.96	SI
903.	243.	3.	1.	-530650.	-.005	.025	-3960743.	-.04	.186	2.	.176	7.464	SI
1031.	371.	3.	1.	427920.	-.007	.02	3878119.	-.071	.186	2.	.277	9.063	SI
1070.	410.	3.	1.	-450652.	-.004	.021	-3960743.	-.04	.186	2.	.176	8.789	SI
1070.	410.	3.	1.	427920.	-.007	.02	3878119.	-.071	.186	2.	.277	9.063	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Vel	
> 0.	0.	3.	-6330.	8203.	57146.	51336.	1.01	15.	2.5	SI
90.	90.	3.	-3085.	10534.	57146.	51336.	1.01	15.	2.5	SI
410.	410.	3.	7815.	8203.	57146.	51336.	1.01	15.	2.5	SI
> 410.	0.	3.	-4566.	8203.	57146.	51336.	1.01	15.	2.5	SI
485.	75.	3.	-2147.	10534.	57146.	51336.	1.01	15.	2.5	SI
660.	250.	3.	4427.	8203.	57146.	51336.	1.01	15.	2.5	SI
> 660.	0.	3.	-7997.	8203.	57146.	51336.	1.01	15.	2.5	SI
719.	59.	3.	-5934.	10534.	57146.	51336.	1.01	15.	2.5	SI
1070.	410.	3.	6291.	8203.	57146.	51336.	1.01	15.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	38535.	-1.	38.8	12.32	7.5	.0011	22.31	.002	SI
39.	39.	3.	-110306.	-1.5	108.8	12.32	7.5	.0031	12.17	.004	SI
205.	205.	3.	-351065.	-4.8	346.3	12.32	7.5	.0099	12.17	.012	SI
410.	410.	3.	263598.	-4.4	133.6	24.63	7.5	.0038	15.07	.006	SI
> 410.	0.	3.	297410.	-5.	150.7	24.63	7.5	.0043	15.07	.006	SI
485.	75.	3.	130892.	-3.2	131.8	12.32	7.5	.0038	22.31	.008	SI
535.	125.	3.	92983.	-2.3	93.6	12.32	7.5	.0027	22.31	.006	SI
660.	250.	3.	284258.	-4.8	144.	24.63	7.5	.0041	15.07	.006	SI
> 660.	0.	3.	269959.	-4.5	136.8	24.63	7.5	.0039	15.07	.006	SI
903.	243.	3.	-373829.	-5.1	368.8	12.32	7.5	.0105	12.17	.013	SI
1070.	410.	3.	1524.	0.	1.5	12.32	7.5	0.	22.31	0.	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	47268.	-1.2	47.6	12.32	7.5	.0014	22.31	.003	SI
39.	39.	3.	-58056.	-.8	57.3	12.32	7.5	.0016	12.17	.002	SI
205.	205.	3.	-234951.	-3.2	231.8	12.32	7.5	.0066	12.17	.008	SI
410.	410.	3.	175125.	-2.9	88.7	24.63	7.5	.0025	15.07	.004	SI
> 410.	0.	3.	194693.	-3.3	98.7	24.63	7.5	.0028	15.07	.004	SI
485.	75.	3.	79906.	-2.	80.5	12.32	7.5	.0023	22.31	.005	SI
535.	125.	3.	53298.	-1.3	53.7	12.32	7.5	.0015	22.31	.003	SI
660.	250.	3.	182098.	-3.1	92.3	24.63	7.5	.0026	15.07	.004	SI
> 660.	0.	3.	182522.	-3.1	92.5	24.63	7.5	.0026	15.07	.004	SI
903.	243.	3.	-253501.	-3.5	250.1	12.32	7.5	.0071	12.17	.009	SI
1070.	410.	3.	12492.	-.3	12.6	12.32	7.5	.0004	22.31	.001	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	49435.	-1.2	49.8	12.32	7.5	.0014	22.31	.003	SI
39.	39.	3.	-44840.	-.6	44.2	12.32	7.5	.0013	12.17	.002	SI
205.	205.	3.	-205529.	-2.8	202.8	12.32	7.5	.0058	12.17	.007	SI
410.	410.	3.	152448.	-2.6	77.2	24.63	7.5	.0022	15.07	.003	SI
> 410.	0.	3.	168477.	-2.8	85.4	24.63	7.5	.0024	15.07	.004	SI
485.	75.	3.	66871.	-1.7	67.3	12.32	7.5	.0019	22.31	.004	SI
535.	125.	3.	43140.	-1.1	43.4	12.32	7.5	.0012	22.31	.003	SI
660.	250.	3.	156019.	-2.6	79.1	24.63	7.5	.0023	15.07	.003	SI
> 660.	0.	3.	160114.	-2.7	81.1	24.63	7.5	.0023	15.07	.003	SI
903.	243.	3.	-223000.	-3.1	220.	12.32	7.5	.0063	12.17	.008	SI
1070.	410.	3.	15226.	-.4	15.3	12.32	7.5	.0004	22.31	.001	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	24.63	.448	12.32	.224	8d14	12.32	.224	8d14
2	36.95	.672	12.32	.224	8d14	24.63	.448	8d14 +8d14
3	49.26	.896	24.63	.448	8d14 +8d14	24.63	.448	8d14 +8d14

II° LOTTO

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : S101-108 (travetto)
 Metodo di verifica : stati limite (NTC08).
 Duttilit  : bassa con gerarchia.
 Unit  di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.
 Unit  particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferri (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
 gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecud=.35%
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS :  c (rara)=149.4;  c (quasi permanente)=112. ; fbd(esercizio)= 26.9
 ACCIAIO :  f (rara)=3600.; Coeff.Omoegin.= 15
 FESSURE : wdm (fre.)=.4 ; wdm (q.p.)=.3 [4.1.2.2.4.5];
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

- 1) Sezione a T : 50/10x24/5; A=440.; Jg=21782.; E=314471.6
- 2) Rettangolare: 50x24; A=1200.; Jg=57600.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	C1	2	1	2	0	318.	288.	13.267	1.3	4.177	110.214
2	C2	2	1	2	0	323.	293.	13.476	1.5	5.	152.212
3	C3	2	1	2	0	323.	293.	13.476	1.5	5.	152.212
4	C4	2	1	2	0	323.	293.	13.476	1.5	5.	152.212
5	C5	2	1	2	0	323.	293.	13.476	1.5	5.	152.212
6	C6	2	1	2	0	323.	293.	13.476	1.5	5.	152.212
7	C7	2	1	2	0	345.	315.	14.379	1.5	5.	152.212
8	C8	2	1	2	0	340.	310.	14.17	1.3	3.69	97.349

CONDIZIONI DI CARICO

Nro	Descrizione	Tipo	Molt. Caric	Coeff. SLU	per combinazioni Rare	Freq.	Q.Per.
1	Perman.strutturali	senza permutazioni	1.	1.3	1.	1.	1.
2	Perman.non strutt.	senza permutazioni	1.	1.5	1.	1.	1.
3	Variabili	permutaz. campate	1.	1.5	1.	.5	.3

CARICHI APPLICATI

Nro	Con	Camp.	Tipo	Sistema	carico 1	carico 2	dist.1	dist.2
1	1	1	Forza distribuita	Globale	-1.5	-	-	-
2	1	2	Forza distribuita	Globale	-1.5	-	-	-
3	1	3	Forza distribuita	Globale	-1.5	-	-	-
4	1	4	Forza distribuita	Globale	-1.5	-	-	-
5	1	5	Forza distribuita	Globale	-1.5	-	-	-
6	1	6	Forza distribuita	Globale	-1.5	-	-	-
7	1	7	Forza distribuita	Globale	-1.5	-	-	-
8	1	8	Forza distribuita	Globale	-1.5	-	-	-
9	2	1	Forza distribuita	Globale	-.25	-	-	-
10	2	2	Forza distribuita	Globale	-.25	-	-	-
11	2	3	Forza distribuita	Globale	-.25	-	-	-
12	2	4	Forza distribuita	Globale	-.25	-	-	-
13	2	5	Forza distribuita	Globale	-.25	-	-	-
14	2	6	Forza distribuita	Globale	-.25	-	-	-
15	2	7	Forza distribuita	Globale	-.25	-	-	-
16	2	8	Forza distribuita	Globale	-.25	-	-	-
17	3	1	Forza distribuita	Globale	-.5	-	-	-
18	3	2	Forza distribuita	Globale	-.5	-	-	-
19	3	3	Forza distribuita	Globale	-.5	-	-	-
20	3	4	Forza distribuita	Globale	-.5	-	-	-
21	3	5	Forza distribuita	Globale	-.5	-	-	-
22	3	6	Forza distribuita	Globale	-.5	-	-	-
23	3	7	Forza distribuita	Globale	-.5	-	-	-
24	3	8	Forza distribuita	Globale	-.5	-	-	-

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	2.	1.	-19486.	-.008	.041	-107695.	-.35	4.2	3.	.077	5.527
0.	0.	2.	1.	3626.	-.001	.008	107695.	-.35	4.2	3.	.077	29.71
129.	129.	1.	1.	25780.	-.011	.055	107695.	-.35	4.2	3.	.077	4.177
219.	219.	1.	1.	-2950.	-.003	.007	-88544.	-.35	1.867	3.	.158	30.02
249.	249.	1.	2.	-9902.	-.007	.011	-167642.	-.35	1.122	3.	.238	16.93

249.	249.	1.	2.	6732.	-.003	.014	109961.	-.35	3.167	3.	.1	16.33	SI
303.	303.	1.	3.	-31501.	-.021	.036	-169516.	-.35	1.449	3.	.195	5.381	SI
318.	318.	2.	3.	-34398.	-.01	.037	-194985.	-.35	2.734	3.	.114	5.669	SI
> 318.	0.	2.	3.	-34398.	-.01	.037	-194985.	-.35	2.734	3.	.114	5.669	SI
333.	15.	1.	3.	-31482.	-.021	.036	-169516.	-.35	1.449	3.	.195	5.385	SI
357.	39.	1.	2.	-19951.	-.015	.023	-167642.	-.35	1.122	3.	.238	8.403	SI
419.	100.	1.	2.	-2779.	-.002	.003	-167642.	-.35	1.122	3.	.238	60.33	SI
449.	131.	1.	1.	13062.	-.005	.028	107695.	-.35	4.2	3.	.077	8.245	SI
480.	162.	1.	1.	14547.	-.006	.031	107695.	-.35	4.2	3.	.077	7.403	SI
541.	223.	1.	2.	11278.	-.005	.024	109961.	-.35	3.167	3.	.1	9.75	SI
642.	323.	2.	3.	-27617.	-.008	.03	-194985.	-.35	2.734	3.	.114	7.06	SI
> 642.	0.	2.	3.	-27617.	-.008	.03	-194985.	-.35	2.734	3.	.114	7.06	SI
712.	70.	1.	2.	-4354.	-.003	.005	-167642.	-.35	1.122	3.	.238	38.5	SI
742.	100.	1.	1.	13069.	-.005	.028	107695.	-.35	4.2	3.	.077	8.24	SI
804.	162.	1.	1.	17219.	-.007	.037	107695.	-.35	4.2	3.	.077	6.254	SI
896.	254.	1.	2.	5943.	-.002	.013	109961.	-.35	3.167	3.	.1	18.5	SI
950.	308.	1.	3.	-26772.	-.018	.031	-169516.	-.35	1.449	3.	.195	6.332	SI
965.	323.	2.	3.	-29607.	-.009	.032	-194985.	-.35	2.734	3.	.114	6.586	SI
> 965.	0.	2.	3.	-29607.	-.009	.032	-194985.	-.35	2.734	3.	.114	6.586	SI
980.	15.	1.	3.	-26795.	-.018	.031	-169516.	-.35	1.449	3.	.195	6.327	SI
1035.	70.	1.	2.	-5851.	-.004	.007	-167642.	-.35	1.122	3.	.238	28.65	SI
1096.	131.	1.	1.	15495.	-.006	.033	107695.	-.35	4.2	3.	.077	6.95	SI
1127.	162.	1.	1.	16535.	-.007	.035	107695.	-.35	4.2	3.	.077	6.513	SI
1219.	254.	1.	2.	-5554.	-.004	.006	-167642.	-.35	1.122	3.	.238	30.18	SI
1219.	254.	1.	2.	5890.	-.002	.013	109961.	-.35	3.167	3.	.1	18.67	SI
1289.	323.	2.	3.	-29115.	-.009	.032	-194985.	-.35	2.734	3.	.114	6.697	SI
>1289.	0.	2.	3.	-29115.	-.009	.032	-194985.	-.35	2.734	3.	.114	6.697	SI
1358.	70.	1.	2.	-5463.	-.004	.006	-167642.	-.35	1.122	3.	.238	30.69	SI
1389.	100.	1.	1.	12299.	-.005	.026	107695.	-.35	4.2	3.	.077	8.756	SI
1450.	162.	1.	1.	16753.	-.007	.036	107695.	-.35	4.2	3.	.077	6.429	SI
1512.	223.	1.	2.	12303.	-.005	.026	109961.	-.35	3.167	3.	.1	8.938	SI
1597.	308.	1.	3.	-26579.	-.018	.031	-169516.	-.35	1.449	3.	.195	6.378	SI
1612.	323.	2.	3.	-29387.	-.009	.032	-194985.	-.35	2.734	3.	.114	6.635	SI
>1612.	0.	2.	3.	-29387.	-.009	.032	-194985.	-.35	2.734	3.	.114	6.635	SI
1682.	70.	1.	2.	-5584.	-.004	.006	-167642.	-.35	1.122	3.	.238	30.02	SI
1712.	100.	1.	1.	12309.	-.005	.026	107695.	-.35	4.2	3.	.077	8.749	SI
1774.	162.	1.	1.	16902.	-.007	.036	107695.	-.35	4.2	3.	.077	6.372	SI
1835.	223.	1.	2.	12591.	-.005	.027	109961.	-.35	3.167	3.	.1	8.733	SI
1921.	308.	1.	3.	-26610.	-.018	.031	-169516.	-.35	1.449	3.	.195	6.37	SI
1936.	323.	2.	3.	-29417.	-.009	.032	-194985.	-.35	2.734	3.	.114	6.628	SI
>1936.	0.	2.	3.	-29417.	-.009	.032	-194985.	-.35	2.734	3.	.114	6.628	SI
2008.	72.	1.	2.	-4838.	-.004	.006	-167642.	-.35	1.122	3.	.238	34.65	SI
2075.	139.	1.	1.	16386.	-.007	.035	107695.	-.35	4.2	3.	.077	6.572	SI
2108.	173.	1.	1.	16940.	-.007	.036	107695.	-.35	4.2	3.	.077	6.358	SI
2175.	239.	1.	2.	9921.	-.004	.021	109961.	-.35	3.167	3.	.1	11.08	SI
2208.	273.	1.	2.	1379.	-.001	.003	109961.	-.35	3.167	3.	.1	79.74	SI
2266.	330.	1.	3.	-36348.	-.024	.042	-169516.	-.35	1.449	3.	.195	4.664	SI
2281.	345.	2.	3.	-39487.	-.012	.043	-194985.	-.35	2.734	3.	.114	4.938	SI
>2281.	0.	2.	3.	-39487.	-.012	.043	-194985.	-.35	2.734	3.	.114	4.938	SI
2296.	15.	1.	3.	-36384.	-.024	.042	-169516.	-.35	1.449	3.	.195	4.659	SI
2352.	72.	1.	2.	-11946.	-.009	.014	-167642.	-.35	1.122	3.	.238	14.03	SI
2352.	72.	1.	2.	6299.	-.003	.013	109961.	-.35	3.167	3.	.1	17.46	SI
2385.	105.	1.	2.	-3673.	-.003	.004	-167642.	-.35	1.122	3.	.238	45.64	SI
2483.	203.	1.	1.	29187.	-.012	.062	107695.	-.35	4.2	3.	.077	3.69	SI
2621.	340.	2.	1.	-22228.	-.009	.047	-107695.	-.35	4.2	3.	.077	4.845	SI
2621.	340.	2.	1.	3866.	-.002	.008	107695.	-.35	4.2	3.	.077	27.85	SI

TAGLIO:

Progressive	Se	Vsd	VRd	Ve
> 0.	0.	2.	459.	SI
318.	318.	2.	-598.	SI
> 318.	0.	2.	540.	SI
642.	323.	2.	-496.	SI
> 642.	0.	2.	513.	SI
965.	323.	2.	-525.	SI
> 965.	0.	2.	521.	SI
1289.	323.	2.	-518.	SI
>1289.	0.	2.	519.	SI
1612.	323.	2.	-521.	SI
>1612.	0.	2.	522.	SI
1936.	323.	2.	-520.	SI
>1936.	0.	2.	522.	SI
2281.	345.	2.	-580.	SI
>2281.	0.	2.	639.	SI
2621.	340.	2.	-489.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
9.	9.	2.	4.	-11925.	-6.9	532.	1.13	6.86	.0152	26.76	.041	SI
15.	15.	2.	4.	-10636.	-6.1	474.5	1.13	6.86	.0136	26.76	.036	SI
129.	129.	1.	1.	18753.	-10.8	836.6	1.13	6.86	.0239	26.76	.064	SI
303.	303.	1.	3.	-19466.	-18.3	470.8	2.26	5.42	.0135	21.14	.028	SI
318.	318.	2.	5.	-25096.	-10.5	573.	2.26	6.49	.0164	25.32	.041	SI
> 318.	0.	2.	5.	-25096.	-10.5	573.	2.26	6.49	.0164	25.32	.041	SI
333.	15.	1.	3.	-19441.	-18.3	470.2	2.26	5.42	.0134	21.14	.028	SI
480.	162.	1.	1.	10416.	-6.	464.6	1.13	6.86	.0133	26.76	.036	SI
642.	323.	2.	5.	-20042.	-8.4	457.6	2.26	6.49	.0131	25.32	.033	SI

> 642.	0.	2.	5.	-20042.	-8.4	457.6	2.26	6.49	.0131	25.32	.033	SI
804.	162.	1.	1.	12392.	-7.2	552.8	1.13	6.86	.0158	26.76	.042	SI
950.	308.	1.	3.	-16020.	-15.1	387.4	2.26	5.42	.0111	21.14	.023	SI
965.	323.	2.	5.	-21511.	-9.	491.1	2.26	6.49	.014	25.32	.036	SI
> 965.	0.	2.	5.	-21511.	-9.	491.1	2.26	6.49	.014	25.32	.036	SI
980.	15.	1.	3.	-16066.	-15.1	388.6	2.26	5.42	.0111	21.14	.023	SI
1127.	162.	1.	1.	11884.	-6.9	530.2	1.13	6.86	.0151	26.76	.041	SI
1289.	323.	2.	5.	-21145.	-8.8	482.7	2.26	6.49	.0138	25.32	.035	SI
>1289.	0.	2.	5.	-21145.	-8.8	482.7	2.26	6.49	.0138	25.32	.035	SI
1450.	162.	1.	1.	12042.	-7.	537.2	1.13	6.86	.0153	26.76	.041	SI
1597.	308.	1.	3.	-15902.	-15.	384.6	2.26	5.42	.011	21.14	.023	SI
1612.	323.	2.	5.	-21339.	-8.9	487.2	2.26	6.49	.0139	25.32	.035	SI
>1612.	0.	2.	5.	-21339.	-8.9	487.2	2.26	6.49	.0139	25.32	.035	SI
1774.	162.	1.	1.	12142.	-7.	541.6	1.13	6.86	.0155	26.76	.041	SI
1921.	308.	1.	3.	-15912.	-15.	384.8	2.26	5.42	.011	21.14	.023	SI
1936.	323.	2.	5.	-21346.	-8.9	487.3	2.26	6.49	.0139	25.32	.035	SI
>1936.	0.	2.	5.	-21346.	-8.9	487.3	2.26	6.49	.0139	25.32	.035	SI
2108.	173.	1.	1.	12154.	-7.	542.2	1.13	6.86	.0155	26.76	.041	SI
2266.	330.	1.	3.	-22723.	-21.4	549.6	2.26	5.42	.0157	21.14	.033	SI
2281.	345.	2.	5.	-28823.	-12.	658.	2.26	6.49	.0188	25.32	.048	SI
>2281.	0.	2.	5.	-28823.	-12.	658.	2.26	6.49	.0188	25.32	.048	SI
2296.	15.	1.	3.	-22783.	-21.5	551.	2.26	5.42	.0157	21.14	.033	SI
2483.	203.	1.	1.	21234.	-12.3	947.3	1.13	6.86	.0271	26.76	.072	SI
2621.	340.	2.	4.	-16265.	-9.4	725.6	1.13	6.86	.0207	26.76	.055	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
9.	9.	2.	4.	-10346.	-6.	461.5	1.13	6.86	.0132	26.76	.035	SI
15.	15.	2.	4.	-9061.	-5.2	404.2	1.13	6.86	.0115	26.76	.031	SI
129.	129.	1.	1.	16230.	-9.4	724.	1.13	6.86	.0207	26.76	.055	SI
303.	303.	1.	3.	-17026.	-16.	411.8	2.26	5.42	.0118	21.14	.025	SI
318.	318.	2.	5.	-22017.	-9.2	502.7	2.26	6.49	.0144	25.32	.036	SI
> 318.	0.	2.	5.	-22017.	-9.2	502.7	2.26	6.49	.0144	25.32	.036	SI
333.	15.	1.	3.	-17057.	-16.1	412.5	2.26	5.42	.0118	21.14	.025	SI
480.	162.	1.	1.	8347.	-4.8	372.4	1.13	6.86	.0106	26.76	.028	SI
642.	323.	2.	5.	-17154.	-7.2	391.6	2.26	6.49	.0112	25.32	.028	SI
> 642.	0.	2.	5.	-17154.	-7.2	391.6	2.26	6.49	.0112	25.32	.028	SI
804.	162.	1.	1.	10190.	-5.9	454.6	1.13	6.86	.013	26.76	.035	SI
950.	308.	1.	3.	-13717.	-12.9	331.7	2.26	5.42	.0095	21.14	.02	SI
965.	323.	2.	5.	-18516.	-7.7	422.7	2.26	6.49	.0121	25.32	.031	SI
> 965.	0.	2.	5.	-18516.	-7.7	422.7	2.26	6.49	.0121	25.32	.031	SI
980.	15.	1.	3.	-13761.	-13.	332.8	2.26	5.42	.0095	21.14	.02	SI
1127.	162.	1.	1.	9708.	-5.6	433.1	1.13	6.86	.0124	26.76	.033	SI
1289.	323.	2.	5.	-18161.	-7.6	414.6	2.26	6.49	.0118	25.32	.03	SI
>1289.	0.	2.	5.	-18161.	-7.6	414.6	2.26	6.49	.0118	25.32	.03	SI
1450.	162.	1.	1.	9844.	-5.7	439.2	1.13	6.86	.0125	26.76	.034	SI
1597.	308.	1.	3.	-13570.	-12.8	328.2	2.26	5.42	.0094	21.14	.02	SI
1612.	323.	2.	5.	-18316.	-7.6	418.2	2.26	6.49	.0119	25.32	.03	SI
>1612.	0.	2.	5.	-18316.	-7.6	418.2	2.26	6.49	.0119	25.32	.03	SI
1627.	15.	1.	3.	-13563.	-12.8	328.	2.26	5.42	.0094	21.14	.02	SI
1774.	162.	1.	1.	9894.	-5.7	441.4	1.13	6.86	.0126	26.76	.034	SI
1936.	323.	2.	5.	-18261.	-7.6	416.9	2.26	6.49	.0119	25.32	.03	SI
>1936.	0.	2.	5.	-18261.	-7.6	416.9	2.26	6.49	.0119	25.32	.03	SI
2108.	173.	1.	1.	9844.	-5.7	439.1	1.13	6.86	.0125	26.76	.034	SI
2266.	330.	1.	3.	-19978.	-18.8	483.2	2.26	5.42	.0138	21.14	.029	SI
2281.	345.	2.	5.	-25340.	-10.6	578.5	2.26	6.49	.0165	25.32	.042	SI
>2281.	0.	2.	5.	-25340.	-10.6	578.5	2.26	6.49	.0165	25.32	.042	SI
2296.	15.	1.	3.	-19983.	-18.8	483.3	2.26	5.42	.0138	21.14	.029	SI
2483.	203.	1.	1.	18386.	-10.6	820.2	1.13	6.86	.0234	26.76	.063	SI
2621.	340.	2.	4.	-14458.	-8.4	645.	1.13	6.86	.0184	26.76	.049	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
9.	9.	2.	4.	-9715.	-5.6	433.4	1.13	6.86	.0124	26.76	.033	SI
15.	15.	2.	4.	-8431.	-4.9	376.1	1.13	6.86	.0107	26.76	.029	SI
129.	129.	1.	1.	15221.	-8.8	679.	1.13	6.86	.0194	26.76	.052	SI
303.	303.	1.	3.	-16050.	-15.1	388.2	2.26	5.42	.0111	21.14	.023	SI
318.	318.	2.	5.	-20786.	-8.7	474.5	2.26	6.49	.0136	25.32	.034	SI
> 318.	0.	2.	5.	-20786.	-8.7	474.5	2.26	6.49	.0136	25.32	.034	SI
333.	15.	1.	3.	-16104.	-15.2	389.5	2.26	5.42	.0111	21.14	.024	SI
480.	162.	1.	1.	7520.	-4.3	335.5	1.13	6.86	.0096	26.76	.026	SI
642.	323.	2.	5.	-15999.	-6.7	365.3	2.26	6.49	.0104	25.32	.026	SI
> 642.	0.	2.	5.	-15999.	-6.7	365.3	2.26	6.49	.0104	25.32	.026	SI
804.	162.	1.	1.	9309.	-5.4	415.3	1.13	6.86	.0119	26.76	.032	SI
950.	308.	1.	3.	-12796.	-12.	309.5	2.26	5.42	.0088	21.14	.019	SI
965.	323.	2.	5.	-17317.	-7.2	395.4	2.26	6.49	.0113	25.32	.029	SI
> 965.	0.	2.	5.	-17317.	-7.2	395.4	2.26	6.49	.0113	25.32	.029	SI
980.	15.	1.	3.	-12839.	-12.1	310.5	2.26	5.42	.0089	21.14	.019	SI
1127.	162.	1.	1.	8838.	-5.1	394.3	1.13	6.86	.0113	26.76	.03	SI
1289.	323.	2.	5.	-16968.	-7.1	387.4	2.26	6.49	.0111	25.32	.028	SI
>1289.	0.	2.	5.	-16968.	-7.1	387.4	2.26	6.49	.0111	25.32	.028	SI
1450.	162.	1.	1.	8965.	-5.2	399.9	1.13	6.86	.0114	26.76	.031	SI
1597.	308.	1.	3.	-12638.	-11.9	305.7	2.26	5.42	.0087	21.14	.018	SI
1612.	323.	2.	5.	-17106.	-7.1	390.5	2.26	6.49	.0112	25.32	.028	SI
>1612.	0.	2.	5.	-17106.	-7.1	390.5	2.26	6.49	.0112	25.32	.028	SI
1627.	15.	1.	3.	-12634.	-11.9	305.5	2.26	5.42	.0087	21.14	.018	SI
1774.	162.	1.	1.	8995.	-5.2	401.3	1.13	6.86	.0115	26.76	.031	SI
1936.	323.	2.	5.	-17027.	-7.1	388.7	2.26	6.49	.0111	25.32	.028	SI

>1936.	0.	2.	5.	-17027.	-7.1	388.7	2.26	6.49	.0111	25.32	.028	SI
2108.	173.	1.	1.	8920.	-5.2	397.9	1.13	6.86	.0114	26.76	.03	SI
2266.	330.	1.	3.	-18881.	-17.8	456.6	2.26	5.42	.013	21.14	.028	SI
2281.	345.	2.	5.	-23946.	-10.	546.7	2.26	6.49	.0156	25.32	.04	SI
>2281.	0.	2.	5.	-23946.	-10.	546.7	2.26	6.49	.0156	25.32	.04	SI
2296.	15.	1.	3.	-18863.	-17.8	456.2	2.26	5.42	.013	21.14	.028	SI
2483.	203.	1.	1.	17247.	-10.	769.4	1.13	6.86	.022	26.76	.059	SI
2621.	340.	2.	4.	-13734.	-7.9	612.7	1.13	6.86	.0175	26.76	.047	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	2.26	.514	1.13	.257	1d12	1.13	.257	1d12
2	3.39	.771	2.26	.514	1d12 +1d12	1.13	.257	1d12
3	4.52	1.028	2.26	.514	1d12 +1d12	2.26	.514	1d12 +1d12
4	2.26	.188	1.13	.094	1d12	1.13	.094	1d12
5	4.52	.377	2.26	.188	1d12 +1d12	2.26	.188	1d12 +1d12

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : S111-113 (travetto)
Metodo di verifica : stati limite (NTC08).
Duttilita' : bassa con gerarchia.
Unità di misura : cm; daN/cm; daN/cm; daN/cm2; deform. %.
Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecud=.35%
ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
CLS : σ_c (rara)=149.4; σ_c (quasi permanente)=112. ; fbd(esercizio)= 26.9
ACCIAIO : σ_f (rara)=3600.; Coeff.Omogein.= 15
FESSURE : wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

- 1) Sezione a T : 50/10X24/5; A=440.; Jg=21782.; E=314471.6
- 2) Rettangolare: 50X24; A=1200.; Jg=57600.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	C1	2	1	2	0	410.	380.	17.083	1.3	2.323	61.297
2	C2	2	1	2	0	250.	220.	10.417	1.5	1.	30.442
3	C3	2	1	2	0	410.	380.	17.083	1.3	2.323	61.297

CONDIZIONI DI CARICO

CONDIZIONI DI CARICO			Molt. Coeff. per combinazioni				
Nro	Descrizione	Tipo	Caric	SLU	Rare	Freq.	Q.Per.
1	Perman.strutturali	senza permutazioni	1.	1.3	1.	1.	1.
2	Perman.non strutt.	senza permutazioni	1.	1.5	1.	1.	1.
3	Variabili	permutaz. campate	1.	1.5	1.	.5	.3

CARICHI APPLICATI

Nro	Con	Camp.	Tipo	Sistema	carico 1	carico 2	dist.1	dist.2
1	1	1	Forza distribuita	Globale	-1.5	-	-	-
2	1	2	Forza distribuita	Globale	-1.5	-	-	-
3	1	3	Forza distribuita	Globale	-1.5	-	-	-
4	2	1	Forza distribuita	Globale	-.25	-	-	-
5	2	2	Forza distribuita	Globale	-.25	-	-	-
6	2	3	Forza distribuita	Globale	-.25	-	-	-
7	3	1	Forza distribuita	Globale	-.5	-	-	-
8	3	2	Forza distribuita	Globale	-.5	-	-	-
9	3	3	Forza distribuita	Globale	-.5	-	-	-

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epscl	Epsac	Mrd	Epscl	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	2.	1.	-32306.	-.013	.069	-107695.	-.35	4.2	3.	.077	3.334	SI
0.	0.	2.	1.	4909.	-.002	.01	107695.	-.35	4.2	3.	.077	21.94	SI
15.	15.	1.	1.	-29734.	-.029	.067	-88544.	-.35	1.867	3.	.158	2.978	SI
172.	172.	1.	1.	46354.	-.019	.099	107695.	-.35	4.2	3.	.077	2.323	SI
305.	305.	1.	2.	23315.	-.01	.05	109961.	-.35	3.167	3.	.1	4.716	SI

338.	338.	1.	2.	-9036.	-.007	.01	-167642.	-.35	1.122	3.	.238	18.55	SI
410.	410.	2.	3.	-43321.	-.013	.047	-194985.	-.35	2.734	3.	.114	4.501	SI
> 410.	0.	2.	3.	-43321.	-.013	.047	-194985.	-.35	2.734	3.	.114	4.501	SI
478.	68.	1.	2.	-26777.	-.02	.031	-167642.	-.35	1.122	3.	.238	6.261	SI
506.	96.	1.	1.	-23268.	-.023	.052	-88544.	-.35	1.867	3.	.158	3.805	SI
535.	125.	1.	1.	-21683.	-.021	.049	-88544.	-.35	1.867	3.	.158	4.084	SI
564.	154.	1.	1.	-23268.	-.023	.052	-88544.	-.35	1.867	3.	.158	3.805	SI
645.	235.	1.	3.	-41000.	-.028	.047	-169516.	-.35	1.449	3.	.195	4.135	SI
660.	250.	2.	3.	-43321.	-.013	.047	-194985.	-.35	2.734	3.	.114	4.501	SI
> 660.	0.	2.	3.	-43321.	-.013	.047	-194985.	-.35	2.734	3.	.114	4.501	SI
732.	72.	1.	2.	-9036.	-.007	.01	-167642.	-.35	1.122	3.	.238	18.55	SI
732.	72.	1.	2.	9216.	-.004	.02	109961.	-.35	3.167	3.	.1	11.93	SI
898.	238.	1.	1.	46354.	-.019	.099	107695.	-.35	4.2	3.	.077	2.323	SI
1055.	395.	1.	1.	-29734.	-.029	.067	-88544.	-.35	1.867	3.	.158	2.978	SI
1070.	410.	2.	1.	-32306.	-.013	.069	-107695.	-.35	4.2	3.	.077	3.334	SI
1070.	410.	2.	1.	4909.	-.002	.01	107695.	-.35	4.2	3.	.077	21.94	SI

TAGLIO:

Progressive	Se	Vsd	VRd	Ve	
> 0.	0.	2.	613.!	5093.!	SI
410.	410.	2.	-736.!	5093.!	SI
> 410.	0.	2.	433.!	5093.!	SI
660.	250.	2.	-433.!	5093.!	SI
> 660.	0.	2.	736.!	5093.!	SI
1070.	410.	2.	-613.!	5093.!	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve	
9.	9.	2.	4.	-20354.	-11.8	908.	1.13	6.86	.0259	26.76	.069	SI
15.	15.	2.	4.	-18497.	-10.7	825.2	1.13	6.86	.0236	26.76	.063	SI
15.	15.	1.	1.	-18497.	-24.9	873.9	1.13	5.9	.025	23.03	.057	SI
172.	172.	1.	1.	33867.	-19.6	1510.8	1.13	6.86	.0432	26.76	.116	SI
410.	410.	2.	5.	-31573.	-13.2	720.8	2.26	6.49	.0206	25.32	.052	SI
> 410.	0.	2.	5.	-31573.	-13.2	720.8	2.26	6.49	.0206	25.32	.052	SI
425.	15.	1.	3.	-27125.	-25.5	656.	2.26	5.42	.0187	21.14	.04	SI
506.	96.	1.	1.	-16094.	-21.7	760.3	1.13	5.9	.0217	23.03	.05	SI
535.	125.	1.	1.	-15375.	-20.7	726.4	1.13	5.9	.0208	23.03	.048	SI
660.	250.	2.	5.	-31573.	-13.2	720.8	2.26	6.49	.0206	25.32	.052	SI
> 660.	0.	2.	5.	-31573.	-13.2	720.8	2.26	6.49	.0206	25.32	.052	SI
898.	238.	1.	1.	33867.	-19.6	1510.8	1.13	6.86	.0432	26.76	.116	SI
1055.	395.	1.	1.	-18497.	-24.9	873.9	1.13	5.9	.025	23.03	.057	SI
1070.	410.	2.	4.	-23639.	-13.7	1054.6	1.13	6.86	.0301	26.76	.081	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
9.	9.	2.	4.	-17774.	-10.3	792.9	1.13	6.86	.0227	26.76	.061	SI
15.	15.	2.	4.	-15944.	-9.2	711.3	1.13	6.86	.0203	26.76	.054	SI
15.	15.	1.	1.	-15944.	-21.5	753.2	1.13	5.9	.0215	23.03	.05	SI
172.	172.	1.	1.	29901.	-17.3	1333.9	1.13	6.86	.0381	26.76	.102	SI
410.	410.	2.	5.	-27567.	-11.5	629.4	2.26	6.49	.018	25.32	.046	SI
> 410.	0.	2.	5.	-27567.	-11.5	629.4	2.26	6.49	.018	25.32	.046	SI
425.	15.	1.	3.	-23800.	-22.4	575.6	2.26	5.42	.0164	21.14	.035	SI
506.	96.	1.	1.	-13351.	-18.	630.7	1.13	5.9	.018	23.03	.041	SI
535.	125.	1.	1.	-12632.	-17.	596.7	1.13	5.9	.017	23.03	.039	SI
660.	250.	2.	5.	-27567.	-11.5	629.4	2.26	6.49	.018	25.32	.046	SI
> 660.	0.	2.	5.	-27567.	-11.5	629.4	2.26	6.49	.018	25.32	.046	SI
898.	238.	1.	1.	29901.	-17.3	1333.9	1.13	6.86	.0381	26.76	.102	SI
1055.	395.	1.	1.	-15944.	-21.5	753.2	1.13	5.9	.0215	23.03	.05	SI
1070.	410.	2.	4.	-21012.	-12.1	937.4	1.13	6.86	.0268	26.76	.072	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
9.	9.	2.	4.	-16741.	-9.7	746.8	1.13	6.86	.0213	26.76	.057	SI
15.	15.	2.	4.	-14923.	-8.6	665.7	1.13	6.86	.019	26.76	.051	SI
15.	15.	1.	1.	-14923.	-20.1	705.	1.13	5.9	.0201	23.03	.046	SI
172.	172.	1.	1.	28315.	-16.4	1263.1	1.13	6.86	.0361	26.76	.097	SI
410.	410.	2.	5.	-25964.	-10.8	592.8	2.26	6.49	.0169	25.32	.043	SI
> 410.	0.	2.	5.	-25964.	-10.8	592.8	2.26	6.49	.0169	25.32	.043	SI
425.	15.	1.	3.	-22470.	-21.2	543.5	2.26	5.42	.0155	21.14	.033	SI
535.	125.	1.	1.	-11534.	-15.5	544.9	1.13	5.9	.0156	23.03	.036	SI
660.	250.	2.	5.	-25964.	-10.8	592.8	2.26	6.49	.0169	25.32	.043	SI
> 660.	0.	2.	5.	-25964.	-10.8	592.8	2.26	6.49	.0169	25.32	.043	SI
898.	238.	1.	1.	28315.	-16.4	1263.1	1.13	6.86	.0361	26.76	.097	SI
1055.	395.	1.	1.	-14923.	-20.1	705.	1.13	5.9	.0201	23.03	.046	SI
1070.	410.	2.	4.	-19962.	-11.5	890.5	1.13	6.86	.0254	26.76	.068	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	2.26	.514	1.13	.257	1d12	1.13	.257	1d12
2	3.39	.771	2.26	.514	1d12 +1d12	1.13	.257	1d12
3	4.52	1.028	2.26	.514	1d12 +1d12	2.26	.514	1d12 +1d12
4	2.26	.188	1.13	.094	1d12	1.13	.094	1d12
5	4.52	.377	2.26	.188	1d12 +1d12	2.26	.188	1d12 +1d12

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 28 - Travata T101 (trave)
 Metodo di verifica : stati limite (NTC08).
 Duttilit  : bassa con gerarchia.
 Unit  di misura : cm; daN; daN/cm; daN/cm2; deform. %.
 Unit  particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferr  (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
 gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecud=.35%
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS :  c (rara)=149.4;  c (quasi permanente)=112. ; fbd(esercizio)= 26.9
 ACCIAIO :  f (rara)=3600.; Coeff.Omoegin.= 15
 FESSURE : wdm (fre.)=.4 ; wdm (q.p.)=.3 [4.1.2.2.4.5];
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: 30x25; A=750.; Jg=39062.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A192	3	3	3	0	330.	290.	13.2	1.3	1.969	39.903
2	A193	3	3	3	0	330.	290.	13.2	1.5	2.234	52.24
3	A194	3	3	3	0	280.	240.	11.2	1.5	3.047	71.273
4	A195	3	3	3	0	330.	290.	13.2	1.5	2.238	52.336
5	A196	3	3	3	0	330.	290.	13.2	1.3	1.964	39.807

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	
5.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3. 1.	-159291.	-.041	.085	-372922.	-.35	1.754	3.	.166	2.341	SI
0.	0.	3. 1.	122062.	-.031	.065	372922.	-.35	1.754	3.	.166	3.055	SI
114.	114.	3. 1.	-14194.	-.004	.008	-372922.	-.35	1.754	3.	.166	26.27	SI
148.	148.	3. 1.	189433.	-.049	.101	372922.	-.35	1.754	3.	.166	1.969	SI
251.	251.	3. 2.	-67831.	-.014	.019	-708839.	-.35	.962	3.	.267	10.45	SI
251.	251.	3. 2.	141593.	-.031	.075	374171.	-.35	1.944	3.	.153	2.643	SI
300.	300.	3. 3.	123879.	-.022	.034	721226.	-.35	1.39	3.	.201	5.822	SI
330.	330.	3. 3.	-219250.	-.039	.059	-721226.	-.35	1.39	3.	.201	3.29	SI
330.	330.	3. 3.	106960.	-.019	.029	721226.	-.35	1.39	3.	.201	6.743	SI
> 330.	0.	3. 3.	-216528.	-.038	.059	-721226.	-.35	1.39	3.	.201	3.331	SI
330.	0.	3. 3.	87979.	-.015	.024	721226.	-.35	1.39	3.	.201	8.198	SI
375.	45.	3. 2.	-137670.	-.028	.038	-708839.	-.35	.962	3.	.267	5.149	SI
375.	45.	3. 2.	112869.	-.025	.06	374171.	-.35	1.944	3.	.153	3.315	SI
512.	182.	3. 1.	166958.	-.043	.089	372922.	-.35	1.754	3.	.166	2.234	SI
546.	216.	3. 1.	-11346.	-.003	.006	-372922.	-.35	1.754	3.	.166	32.87	SI
660.	330.	3. 3.	-172779.	-.03	.047	-721226.	-.35	1.39	3.	.201	4.174	SI
660.	330.	3. 3.	94806.	-.016	.026	721226.	-.35	1.39	3.	.201	7.607	SI
> 660.	0.	3. 3.	-161227.	-.028	.044	-721226.	-.35	1.39	3.	.201	4.473	SI
660.	0.	3. 3.	107237.	-.019	.029	721226.	-.35	1.39	3.	.201	6.726	SI
705.	45.	3. 2.	-113766.	-.023	.031	-708839.	-.35	.962	3.	.267	6.231	SI
705.	45.	3. 2.	112918.	-.025	.06	374171.	-.35	1.944	3.	.153	3.314	SI
800.	140.	3. 1.	122374.	-.031	.065	372922.	-.35	1.754	3.	.166	3.047	SI
832.	172.	3. 1.	-18509.	-.005	.01	-372922.	-.35	1.754	3.	.166	20.15	SI
940.	280.	3. 3.	-158434.	-.028	.043	-721226.	-.35	1.39	3.	.201	4.552	SI
940.	280.	3. 3.	108700.	-.019	.029	721226.	-.35	1.39	3.	.201	6.635	SI
> 940.	0.	3. 3.	-176669.	-.031	.048	-721226.	-.35	1.39	3.	.201	4.082	SI
940.	0.	3. 3.	93738.	-.016	.025	721226.	-.35	1.39	3.	.201	7.694	SI
985.	45.	3. 2.	-114992.	-.024	.031	-708839.	-.35	.962	3.	.267	6.164	SI
985.	45.	3. 2.	116252.	-.026	.062	374171.	-.35	1.944	3.	.153	3.219	SI
1054.	114.	3. 1.	-12451.	-.003	.007	-372922.	-.35	1.754	3.	.166	29.95	SI
1088.	148.	3. 1.	166653.	-.043	.089	372922.	-.35	1.754	3.	.166	2.238	SI
1270.	330.	3. 3.	-212704.	-.037	.058	-721226.	-.35	1.39	3.	.201	3.391	SI

1270.	330.	3.	3.	89893.	-.016	.024	721226.	-.35	1.39	3.	.201	8.023	SI
>1270.	0.	3.	3.	-222959.	-.039	.06	-721226.	-.35	1.39	3.	.201	3.235	SI
1270.	0.	3.	3.	104366.	-.018	.028	721226.	-.35	1.39	3.	.201	6.911	SI
1315.	45.	3.	2.	-140009.	-.029	.038	-708839.	-.35	.962	3.	.267	5.063	SI
1315.	45.	3.	2.	126984.	-.028	.067	374171.	-.35	1.944	3.	.153	2.947	SI
1452.	182.	3.	1.	189893.	-.05	.101	372922.	-.35	1.754	3.	.166	1.964	SI
1486.	216.	3.	1.	-12386.	-.003	.007	-372922.	-.35	1.754	3.	.166	30.11	SI
1600.	330.	3.	1.	-154984.	-.04	.082	-372922.	-.35	1.754	3.	.166	2.406	SI
1600.	330.	3.	1.	121954.	-.031	.065	372922.	-.35	1.754	3.	.166	3.058	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-2018.	3147.	20252.	20251.	1.01	5.	1.3	SI
0.	0.	3.	4178.	3147.	20252.	20251.	1.01	5.	1.3	SI
330.	330.	3.	-4583.	4011.	20252.	20251.	1.01	5.	1.3	SI
330.	330.	3.	1259.	4011.	20252.	20251.	1.01	5.	1.3	SI
> 330.	0.	3.	-2589.	4011.	20252.	20251.	1.01	5.	1.3	SI
330.	0.	3.	5222.	4011.	20252.	20251.	1.01	5.	1.3	SI
660.	330.	3.	-5154.	4011.	20252.	20251.	1.01	5.	1.3	SI
660.	330.	3.	2303.	4011.	20252.	20251.	1.01	5.	1.3	SI
> 660.	0.	3.	-3369.	4011.	20252.	20251.	1.01	5.	1.3	SI
660.	0.	3.	5669.	4011.	20252.	20251.	1.01	5.	1.3	SI
940.	280.	3.	-5492.	4011.	20252.	20251.	1.01	5.	1.3	SI
940.	280.	3.	3192.	4011.	20252.	20251.	1.01	5.	1.3	SI
> 940.	0.	3.	-2480.	4011.	20252.	20251.	1.01	5.	1.3	SI
940.	0.	3.	5331.	4011.	20252.	20251.	1.01	5.	1.3	SI
1270.	330.	3.	-5045.	4011.	20252.	20251.	1.01	5.	1.3	SI
1270.	330.	3.	2412.	4011.	20252.	20251.	1.01	5.	1.3	SI
>1270.	0.	3.	-1436.	4011.	20252.	20251.	1.01	5.	1.3	SI
1270.	0.	3.	4760.	4011.	20252.	20251.	1.01	5.	1.3	SI
1600.	330.	3.	-4001.	3147.	20252.	20251.	1.01	5.	1.3	SI
1600.	330.	3.	1841.	3147.	20252.	20251.	1.01	5.	1.3	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve	
10.	10.	3.	1.	-90247.	-32.1	1004.1	4.62	5.96	.0287	17.03	.049	SI
30.	30.	3.	1.	-49159.	-17.5	547.	4.62	5.96	.0156	17.03	.027	SI
148.	148.	3.	1.	133413.	-47.5	1484.4	4.62	5.96	.0486	17.03	.083	SI
330.	330.	3.	3.	-150428.	-36.8	854.	9.24	5.45	.0288	12.03	.035	SI
> 330.	0.	3.	3.	-148625.	-36.4	843.7	9.24	5.45	.0283	12.03	.034	SI
512.	182.	3.	1.	117562.	-41.8	1308.1	4.62	5.96	.0402	17.03	.068	SI
660.	330.	3.	3.	-114785.	-28.1	651.6	9.24	5.45	.0191	12.03	.023	SI
> 660.	0.	3.	3.	-100834.	-24.7	572.4	9.24	5.45	.0164	12.03	.02	SI
800.	140.	3.	1.	86089.	-30.6	957.9	4.62	5.96	.0274	17.03	.047	SI
940.	280.	3.	3.	-97516.	-23.9	553.6	9.24	5.45	.0158	12.03	.019	SI
> 940.	0.	3.	3.	-117778.	-28.8	668.6	9.24	5.45	.02	12.03	.024	SI
1088.	148.	3.	1.	117341.	-41.7	1305.6	4.62	5.96	.0401	17.03	.068	SI
1270.	330.	3.	3.	-145559.	-35.7	826.3	9.24	5.45	.0275	12.03	.033	SI
>1270.	0.	3.	3.	-153540.	-37.6	871.6	9.24	5.45	.0296	12.03	.036	SI
1452.	182.	3.	1.	133746.	-47.6	1488.1	4.62	5.96	.0488	17.03	.083	SI
1600.	330.	3.	1.	-116182.	-41.3	1292.7	4.62	5.96	.0395	17.03	.067	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
10.	10.	3.	1.	-52854.	-18.8	588.1	4.62	5.96	.0168	17.03	.029	SI
30.	30.	3.	1.	-28113.	-10.	312.8	4.62	5.96	.0089	17.03	.015	SI
148.	148.	3.	1.	80393.	-28.6	894.5	4.62	5.96	.0256	17.03	.044	SI
330.	330.	3.	3.	-91882.	-22.5	521.6	9.24	5.45	.0149	12.03	.018	SI
> 330.	0.	3.	3.	-91690.	-22.5	520.5	9.24	5.45	.0149	12.03	.018	SI
512.	182.	3.	1.	70585.	-25.1	785.4	4.62	5.96	.0224	17.03	.038	SI
660.	330.	3.	3.	-67432.	-16.5	382.8	9.24	5.45	.0109	12.03	.013	SI
> 660.	0.	3.	3.	-62083.	-15.2	352.4	9.24	5.45	.0101	12.03	.012	SI
800.	140.	3.	1.	52485.	-18.7	584.	4.62	5.96	.0167	17.03	.028	SI
940.	280.	3.	3.	-59174.	-14.5	335.9	9.24	5.45	.0096	12.03	.012	SI
> 940.	0.	3.	3.	-70054.	-17.2	397.7	9.24	5.45	.0114	12.03	.014	SI
1088.	148.	3.	1.	70388.	-25.	783.2	4.62	5.96	.0224	17.03	.038	SI
1270.	330.	3.	3.	-89005.	-21.8	505.3	9.24	5.45	.0144	12.03	.017	SI
>1270.	0.	3.	3.	-94703.	-23.2	537.6	9.24	5.45	.0154	12.03	.018	SI
1452.	182.	3.	1.	80690.	-28.7	897.8	4.62	5.96	.0257	17.03	.044	SI
1600.	330.	3.	1.	-70372.	-25.	783.	4.62	5.96	.0224	17.03	.038	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
10.	10.	3.	1.	-46956.	-16.7	522.5	4.62	5.96	.0149	17.03	.025	SI
30.	30.	3.	1.	-23357.	-8.3	259.9	4.62	5.96	.0074	17.03	.013	SI
148.	148.	3.	1.	67181.	-23.9	747.5	4.62	5.96	.0214	17.03	.036	SI
330.	330.	3.	3.	-76918.	-18.8	436.7	9.24	5.45	.0125	12.03	.015	SI
> 330.	0.	3.	3.	-77102.	-18.9	437.7	9.24	5.45	.0125	12.03	.015	SI
512.	182.	3.	1.	58946.	-21.	655.9	4.62	5.96	.0187	17.03	.032	SI
660.	330.	3.	3.	-55313.	-13.5	314.	9.24	5.45	.009	12.03	.011	SI
> 660.	0.	3.	3.	-52143.	-12.8	296.	9.24	5.45	.0085	12.03	.01	SI
800.	140.	3.	1.	43573.	-15.5	484.8	4.62	5.96	.0139	17.03	.024	SI
940.	280.	3.	3.	-49352.	-12.1	280.2	9.24	5.45	.008	12.03	.01	SI
> 940.	0.	3.	3.	-57828.	-14.2	328.3	9.24	5.45	.0094	12.03	.011	SI

1088.	148.	3.	1.	58757.	! -20.9!	653.8!	4.62!	5.96!	.0187!	17.03!	.032!	SI
1270.	330.	3.	3.	-74527.	! -18.3!	423.1!	9.24!	5.45!	.0121!	12.03!	.015!	SI
>1270.	0.	3.	3.	-79630.	! -19.5!	452.1!	9.24!	5.45!	.0129!	12.03!	.016!	SI
1452.	182.	3.	1.	67467.	! -24.!	750.7!	4.62!	5.96!	.0214!	17.03!	.037!	SI
1600.	330.	3.	1.	-58638.	! -20.9!	652.4!	4.62!	5.96!	.0186!	17.03!	.032!	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	9.24	1.232	4.62	.616	3d14	4.62	.616	3d14
2	13.85	1.847	9.24	1.232	3d14 +3d14	4.62	.616	3d14
3	18.47	2.463	9.24	1.232	3d14 +3d14	9.24	1.232	3d14 +3d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 29 - Travata T102 (trave)
Metodo di verifica : stati limite (NTC08).
Duttilita' : bassa con gerarchia.
Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.
Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.
Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecd=.35%
ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
CLS : σc (rara)=149.4; σc (quasi permanente)=112. ; fbd(esercizio)= 26.9
ACCIAIO : σf (rara)=3600.; Coeff.Omogein.= 15
FESSURE : wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: 30x50; A=1500.; Jg=312500.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A197	3	3	3	0	665.	630.	13.3	1.3	1.805	38.964
2	A198	3	3	3	0	280.	240.	5.6	1.5	5.	124.545
3	A199	3	3	3	0	665.	630.	13.3	1.3	1.805	38.96

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMA PRINC16	
5.	SLU con SISMA PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc1	Epsac	Mrd	Epsc1	Epsac	Cam	x/d	Mr/MS	VE	
> 0.	0.	3.	1.	-715575.	-.045	.128	-1160328.	-.35	3.944	3.	.082	1.622	SI
0.	0.	3.	1.	2026.	0.	0.	1483507.	-.35	3.083	3.	.102	732.3	SI
330.	330.	3.	1.	821927.	-.051	.114	1483507.	-.35	3.083	3.	.102	1.805	SI
507.	507.	3.	2.	-58842.	-.003	.005	-2225833.	-.35	2.379	3.	.128	37.83	SI
507.	507.	3.	2.	405290.	-.02	.055	1508256.	-.35	3.888	3.	.083	3.721	SI
665.	665.	3.	3.	-848436.	-.035	.076	-2279549.	-.35	3.439	3.	.092	2.687	SI
> 665.	0.	3.	3.	-578526.	-.024	.052	-2279549.	-.35	3.439	3.	.092	3.94	SI
665.	0.	3.	3.	105021.	-.004	.007	2905123.	-.35	2.393	3.	.128	27.66	SI
706.	41.	3.	2.	-546605.	-.027	.05	-2225833.	-.35	2.379	3.	.128	4.072	SI
770.	105.	3.	1.	-399711.	-.025	.071	-1160328.	-.35	3.944	3.	.082	2.903	SI
875.	210.	3.	2.	127915.	-.006	.017	1508256.	-.35	3.888	3.	.083	11.79	SI
945.	280.	3.	3.	-574726.	-.024	.052	-2279549.	-.35	3.439	3.	.092	3.966	SI
945.	280.	3.	3.	105466.	-.004	.007	2905123.	-.35	2.393	3.	.128	27.55	SI
> 945.	0.	3.	3.	-854995.	-.035	.077	-2279549.	-.35	3.439	3.	.092	2.666	SI
986.	41.	3.	2.	-778261.	-.039	.071	-2225833.	-.35	2.379	3.	.128	2.86	SI
1015.	70.	3.	2.	46742.	-.002	.006	1508256.	-.35	3.888	3.	.083	32.27	SI
1280.	335.	3.	1.	822015.	-.051	.114	1483507.	-.35	3.083	3.	.102	1.805	SI
1610.	665.	3.	1.	-715575.	-.045	.128	-1160328.	-.35	3.944	3.	.082	1.622	SI
1610.	665.	3.	1.	4201.	0.	.001	1483507.	-.35	3.083	3.	.102	353.2	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Vel	
> 0.	0.	3.	10452.	5230.	33726.	33280.	1.01	11.	2.2	SI
665.	665.	3.	-10438.	7804.	33726.	33280.	1.01	11.	2.2	SI
> 665.	0.	3.	-13041.	5230.	33726.	33280.	1.01	11.	2.2	SI
665.	0.	3.	17667.	5230.	33726.	33280.	1.01	11.	2.2	SI
721.	56.	3.	-13674.	6194.	33726.	33280.	1.01	11.	2.2	SI
945.	280.	3.	-17311.	5230.	33726.	33280.	1.01	11.	2.2	SI
945.	280.	3.	12685.	5230.	33726.	33280.	1.01	11.	2.2	SI
> 945.	0.	3.	10438.	7804.	33726.	33280.	1.01	11.	2.2	SI
1610.	665.	3.	-10452.	5230.	33726.	33280.	1.01	11.	2.2	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-528638.	-45.9	1983.	6.16	7.5	.0734	16.52	.121	SI
15.	15.	3.	1.	-448487.	-38.9	1682.3	6.16	7.5	.0591	16.52	.098	SI
36.	36.	3.	1.	-335475.	-29.1	1258.4	6.16	7.5	.0389	16.52	.064	SI
330.	330.	3.	1.	607117.	-50.8	1767.9	8.04	7.5	.0673	15.09	.102	SI
665.	665.	3.	3.	-624632.	-36.2	1181.5	12.32	7.5	.0441	12.17	.054	SI
> 665.	0.	3.	3.	-426933.	-24.8	807.5	12.32	7.5	.0263	12.17	.032	SI
706.	41.	3.	2.	-357612.	-24.9	688.6	12.32	7.5	.0206	12.17	.025	SI
770.	105.	3.	1.	-273364.	-23.7	1025.4	6.16	7.5	.0293	16.52	.048	SI
805.	140.	3.	1.	97981.	-8.2	285.3	8.04	7.5	.0082	15.09	.012	SI
945.	280.	3.	3.	-424230.	-24.6	802.4	12.32	7.5	.0261	12.17	.032	SI
> 945.	0.	3.	3.	-629627.	-36.5	1190.9	12.32	7.5	.0446	12.17	.054	SI
1280.	335.	3.	1.	607172.	-50.8	1768.	8.04	7.5	.0673	15.09	.102	SI
1610.	665.	3.	1.	-528638.	-45.9	1983.	6.16	7.5	.0734	16.52	.121	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-500292.	-43.4	1876.7	6.16	7.5	.0683	16.52	.113	SI
15.	15.	3.	1.	-424394.	-36.8	1592.	6.16	7.5	.0547	16.52	.09	SI
36.	36.	3.	1.	-317377.	-27.5	1190.5	6.16	7.5	.0356	16.52	.059	SI
330.	330.	3.	1.	574039.	-48.	1671.6	8.04	7.5	.0627	15.09	.095	SI
665.	665.	3.	3.	-589159.	-34.2	1114.4	12.32	7.5	.0409	12.17	.05	SI
> 665.	0.	3.	3.	-402040.	-23.3	760.5	12.32	7.5	.0241	12.17	.029	SI
706.	41.	3.	2.	-336488.	-23.5	648.	12.32	7.5	.0187	12.17	.023	SI
770.	105.	3.	1.	-256864.	-22.3	963.5	6.16	7.5	.0275	16.52	.045	SI
805.	140.	3.	1.	93084.	-7.8	271.1	8.04	7.5	.0077	15.09	.012	SI
945.	280.	3.	3.	-399916.	-23.2	756.4	12.32	7.5	.0239	12.17	.029	SI
> 945.	0.	3.	3.	-593496.	-34.4	1122.6	12.32	7.5	.0413	12.17	.05	SI
1280.	335.	3.	1.	574050.	-48.	1671.6	8.04	7.5	.0627	15.09	.095	SI
1610.	665.	3.	1.	-500292.	-43.4	1876.7	6.16	7.5	.0683	16.52	.113	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-490844.	-42.6	1841.2	6.16	7.5	.0666	16.52	.11	SI
15.	15.	3.	1.	-416367.	-36.1	1561.9	6.16	7.5	.0533	16.52	.088	SI
36.	36.	3.	1.	-311355.	-27.	1167.9	6.16	7.5	.0346	16.52	.057	SI
330.	330.	3.	1.	563062.	-47.1	1639.6	8.04	7.5	.0612	15.09	.092	SI
665.	665.	3.	3.	-577519.	-33.5	1092.4	12.32	7.5	.0399	12.17	.049	SI
> 665.	0.	3.	3.	-393925.	-22.8	745.1	12.32	7.5	.0233	12.17	.028	SI
706.	41.	3.	2.	-329626.	-23.	634.7	12.32	7.5	.0181	12.17	.022	SI
770.	105.	3.	1.	-251534.	-21.8	943.5	6.16	7.5	.027	16.52	.045	SI
805.	140.	3.	1.	87272.	-7.3	254.1	8.04	7.5	.0073	15.09	.011	SI
945.	280.	3.	3.	-391958.	-22.7	741.4	12.32	7.5	.0231	12.17	.028	SI
> 945.	0.	3.	3.	-581666.	-33.7	1100.2	12.32	7.5	.0402	12.17	.049	SI
1280.	335.	3.	1.	563062.	-47.1	1639.6	8.04	7.5	.0612	15.09	.092	SI
1610.	665.	3.	1.	-490844.	-42.6	1841.2	6.16	7.5	.0666	16.52	.11	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	14.2	.947	6.16	.411	4d14	8.04	.536	4d16
2	20.36	1.357	12.32	.821	4d14 +4d14	8.04	.536	4d16
3	28.4	1.893	12.32	.821	4d14 +4d14	16.08	1.072	4d16 +4d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 31 - Travata T104 (trave)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;

gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecud=.35%
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS : σ_c (rara)=149.4; σ_c (quasi permanente)=112. ; fbd(esercizio)= 26.9
 ACCIAIO : σ_f (rara)=3600.; Coeff.Omoegin.= 15
 FESSURE : w_{dmax}(fre.)=.4 ; w_{dmax}(q.p.)=.3 [4.1.2.2.4.5];
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: 30x50; A=1500.; Jg=312500.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A205	3	3	3	0	840.	805.	16.8	1.3	1.213	25.372
2	A206	3	3	3	0	280.	240.	5.6	1.5	5.	120.692
3	A207	3	3	3	0	840.	805.	16.8	1.3	1.21	25.319

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMA PRINC16	
5.	SLU con SISMA PRINC16	

Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	1.	-1078267.	-.063	.149	-1493986.	-.35	3.411	3.	.093	1.386
36.	36.	3.	1.	21889.	-.001	.003	1493986.	-.35	3.411	3.	.093	68.25
394.	394.	3.	1.	1231823.	-.073	.171	1493986.	-.35	3.411	3.	.093	1.213
629.	629.	3.	2.	672949.	-.031	.092	1515460.	-.35	4.138	3.	.078	2.252
676.	676.	3.	2.	-206593.	-.009	.015	-2803162.	-.35	1.361	3.	.205	13.57
840.	840.	3.	3.	-1311900.	-.051	.091	-2936931.	-.35	2.866	3.	.109	2.239
> 840.	0.	3.	3.	-877057.	-.034	.061	-2936931.	-.35	2.866	3.	.109	3.349
840.	0.	3.	3.	87237.	-.003	.006	2936931.	-.35	2.866	3.	.109	33.67
881.	41.	3.	2.	-846115.	-.04	.06	-2803162.	-.35	1.361	3.	.205	3.313
881.	41.	3.	2.	121433.	-.006	.017	1515460.	-.35	4.138	3.	.078	12.48
945.	105.	3.	1.	-702882.	-.04	.097	-1493986.	-.35	3.411	3.	.093	2.126
945.	105.	3.	1.	127531.	-.007	.018	1493986.	-.35	3.411	3.	.093	11.72
1120.	280.	3.	3.	-861157.	-.033	.06	-2936931.	-.35	2.866	3.	.109	3.41
1120.	280.	3.	3.	87175.	-.003	.006	2936931.	-.35	2.866	3.	.109	33.69
>1120.	0.	3.	3.	-1307500.	-.051	.091	-2936931.	-.35	2.866	3.	.109	2.246
1161.	41.	3.	2.	-1212649.	-.058	.086	-2803162.	-.35	1.361	3.	.205	2.312
1237.	117.	3.	2.	190550.	-.009	.026	1515460.	-.35	4.138	3.	.078	7.953
1566.	446.	3.	1.	1234437.	-.073	.171	1493986.	-.35	3.411	3.	.093	1.21
1924.	804.	3.	1.	22976.	-.001	.003	1493986.	-.35	3.411	3.	.093	65.02
1960.	840.	3.	1.	-1078267.	-.063	.149	-1493986.	-.35	3.411	3.	.093	1.386

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	1.	11136.	5230.	33726.	33280.	1.01	11.
840.	840.	3.	1.	-11401.	8530.	33726.	33280.	1.01	11.
> 840.	0.	3.	1.	-16308.	5230.	33726.	33280.	1.01	11.
840.	0.	3.	1.	20730.	5230.	33726.	33280.	1.01	11.
896.	56.	3.	1.	-16913.	6770.	33726.	33280.	1.01	11.
1120.	280.	3.	1.	-20390.	5230.	33726.	33280.	1.01	11.
1120.	280.	3.	1.	15968.	5230.	33726.	33280.	1.01	11.
>1120.	0.	3.	1.	11401.	8530.	33726.	33280.	1.01	11.
1960.	840.	3.	1.	-11136.	5230.	33726.	33280.	1.01	11.

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3.	1.	-700396.	-55.6	2029.8	8.04	7.5	.0798	15.09	.12
36.	36.	3.	1.	-564267.	-44.8	1635.3	8.04	7.5	.061	15.09	.092
394.	394.	3.	1.	910441.	-72.3	2638.5	8.04	7.5	.1088	15.09	.164
840.	840.	3.	3.	-969459.	-52.3	1417.7	16.08	7.5	.0574	11.28	.065
> 840.	0.	3.	3.	-647979.	-35.	947.6	16.08	7.5	.0351	11.28	.04
945.	105.	3.	1.	-498021.	-39.6	1443.3	8.04	7.5	.0518	15.09	.078
980.	140.	3.	1.	92943.	-7.4	269.4	8.04	7.5	.0077	15.09	.012
1120.	280.	3.	3.	-636364.	-34.3	930.6	16.08	7.5	.0342	11.28	.039
>1120.	0.	3.	3.	-966076.	-52.1	1412.8	16.08	7.5	.0572	11.28	.065
1566.	446.	3.	1.	912325.	-72.5	2644.	8.04	7.5	.109	15.09	.165
1960.	840.	3.	1.	-796942.	-63.3	2309.6	8.04	7.5	.0931	15.09	.14

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3. 1.	-663254.	-52.7	1922.2	8.04	7.5	.0746	15.09	.113	SI
36.	36.	3. 1.	-534336.	-42.5	1548.5	8.04	7.5	.0569	15.09	.086	SI
394.	394.	3. 1.	862201.	-68.5	2498.7	8.04	7.5	.1021	15.09	.154	SI
840.	840.	3. 3.	-917099.	-49.5	1341.1	16.08	7.5	.0538	11.28	.061	SI
> 840.	0.	3. 3.	-612572.	-33.	895.8	16.08	7.5	.0326	11.28	.037	SI
945.	105.	3. 1.	-470726.	-37.4	1364.2	8.04	7.5	.0481	15.09	.073	SI
980.	140.	3. 1.	88126.	-7.	255.4	8.04	7.5	.0073	15.09	.011	SI
1120.	280.	3. 3.	-602019.	-32.5	880.4	16.08	7.5	.0319	11.28	.036	SI
>1120.	0.	3. 3.	-913352.	-49.3	1335.7	16.08	7.5	.0535	11.28	.06	SI
1566.	446.	3. 1.	863867.	-68.6	2503.6	8.04	7.5	.1023	15.09	.154	SI
1960.	840.	3. 1.	-754700.	-60.	2187.2	8.04	7.5	.0873	15.09	.132	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3. 1.	-650875.	-51.7	1886.3	8.04	7.5	.0729	15.09	.11	SI
36.	36.	3. 1.	-524336.	-41.7	1519.6	8.04	7.5	.0555	15.09	.084	SI
394.	394.	3. 1.	846121.	-67.2	2452.1	8.04	7.5	.0999	15.09	.151	SI
840.	840.	3. 3.	-899741.	-48.3	1315.8	16.08	7.5	.0526	11.28	.059	SI
> 840.	0.	3. 3.	-600861.	-32.4	878.7	16.08	7.5	.0318	11.28	.036	SI
945.	105.	3. 1.	-461709.	-36.7	1338.1	8.04	7.5	.0468	15.09	.071	SI
980.	140.	3. 1.	86510.	-6.9	250.7	8.04	7.5	.0072	15.09	.011	SI
1120.	280.	3. 3.	-590634.	-31.9	863.7	16.08	7.5	.0311	11.28	.035	SI
>1120.	0.	3. 3.	-895920.	-48.3	1310.2	16.08	7.5	.0523	11.28	.059	SI
1566.	446.	3. 1.	847720.	-67.4	2456.8	8.04	7.5	.1001	15.09	.151	SI
1960.	840.	3. 1.	-740619.	-58.8	2146.4	8.04	7.5	.0853	15.09	.129	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	16.08	1.072	8.04	.536	4d16	8.04	.536	4d16
2	24.13	1.608	16.08	1.072	4d16 +4d16	8.04	.536	4d16
3	32.17	2.145	16.08	1.072	4d16 +4d16	16.08	1.072	4d16 +4d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 35 - Travata T108 (trave)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecud=.35%
ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
CLS : σc (rara)=149.4; σc (quasi permanente)=112. ; fbd(esercizio)= 26.9
ACCIAIO : σf (rara)=3600.; Coeff.Omogein= 15
FESSURE : wdmax(fre.)=.4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: 30x50; A=1500.; Jg=312500.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A213	3	3	3	0	845.	815.	16.9	1.	1.169	18.808

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMA PRINC16	
5.	SLU con SISMA PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-1086010.	-.064	.15	-1493986.	-.35	3.411	3.	.093	1.376	SI
113.	113.	3.	1.	268099.	-.015	.037	1493986.	-.35	3.411	3.	.093	5.573	SI
446.	446.	3.	1.	1278238.	-.076	.177	1493986.	-.35	3.411	3.	.093	1.169	SI
780.	780.	3.	1.	4752.	0.	.001	1493986.	-.35	3.411	3.	.093	314.4	SI
845.	845.	3.	1.	-1086010.	-.064	.15	-1493986.	-.35	3.411	3.	.093	1.376	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Vel	
> 0.	0.	3.	10507.	5230.	33726.	33280.	1.01	11.	2.2	SI
51.	51.	3.	9257.	6770.	33726.	33280.	1.01	11.	2.2	SI
845.	845.	3.	-10350.	5230.	33726.	33280.	1.01	11.	2.2	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve	
15.	15.	3.	1.	-701495.	-55.7	2033.	8.04	7.5	.0799	15.09	.121	SI
446.	446.	3.	1.	944715.	-75.1	2737.9	8.04	7.5	.1135	15.09	.171	SI
845.	845.	3.	1.	-802690.	-63.8	2326.3	8.04	7.5	.0939	15.09	.142	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve	
15.	15.	3.	1.	-664342.	-52.8	1925.3	8.04	7.5	.0748	15.09	.113	SI
446.	446.	3.	1.	894467.	-71.1	2592.3	8.04	7.5	.1066	15.09	.161	SI
845.	845.	3.	1.	-760176.	-60.4	2203.1	8.04	7.5	.088	15.09	.133	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve	
15.	15.	3.	1.	-651957.	-51.8	1889.4	8.04	7.5	.0731	15.09	.11	SI
446.	446.	3.	1.	877744.	-69.7	2543.8	8.04	7.5	.1042	15.09	.157	SI
845.	845.	3.	1.	-746005.	-59.3	2162.	8.04	7.5	.0861	15.09	.13	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	16.08	1.072	8.04	.536	4d16	8.04	.536	4d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 37 - Travata T110 (trave)
 Metodo di verifica : stati limite (NTC08).
 Duttilità : bassa con gerarchia.
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecd=.35%
ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
CLS : σc (rara)=149.4; σc (quasi permanente)=112. ; fbd(esercizio)= 26.9
ACCIAIO : σf (rara)=3600.; Coeff.Omogein.= 15
FESSURE : wdmax(fre.)=.4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: 30x25; A=750.; Jg=39062.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A318	3	3	3	0	323.	273.	12.933	1.3	2.057	41.695
2	A319	3	3	3	0	323.	273.	12.933	1.5	2.336	54.633
3	A320	3	3	3	0	323.	273.	12.933	1.5	2.341	54.761
4	A321	3	3	3	0	323.	273.	12.933	1.5	2.339	54.711
5	A322	3	3	3	0	323.	273.	12.933	1.5	2.335	54.617
6	A323	3	3	3	0	323.	273.	12.933	1.3	2.049	41.528

CASI DI CARICO DA MODELLO 3D

SLU

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	
5.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	-181753.	-.047	.097	-372922.	-.35	1.754	3.	.166	2.052	SI
0.	0.	3.	81655.	-.021	.043	372922.	-.35	1.754	3.	.166	4.567	SI
114.	114.	3.	-8546.	-.002	.005	-372922.	-.35	1.754	3.	.166	43.64	SI
178.	178.	3.	181292.	-.047	.096	372922.	-.35	1.754	3.	.166	2.057	SI
241.	241.	3.	-32401.	-.007	.009	-708839.	-.35	.962	3.	.267	21.88	SI
241.	241.	3.	137372.	-.03	.073	374171.	-.35	1.944	3.	.153	2.724	SI
273.	273.	3.	117366.	-.02	.032	721226.	-.35	1.39	3.	.201	6.145	SI
323.	323.	3.	-160919.	-.028	.044	-721226.	-.35	1.39	3.	.201	4.482	SI
323.	323.	3.	86919.	-.015	.023	721226.	-.35	1.39	3.	.201	8.298	SI
> 323.	0.	3.	-184069.	-.032	.05	-721226.	-.35	1.39	3.	.201	3.918	SI
323.	0.	3.	65245.	-.011	.018	721226.	-.35	1.39	3.	.201	11.05	SI
405.	82.	3.	-44527.	-.009	.012	-708839.	-.35	.962	3.	.267	15.92	SI
405.	82.	3.	116872.	-.026	.062	374171.	-.35	1.944	3.	.153	3.202	SI
501.	178.	3.	159645.	-.041	.085	372922.	-.35	1.754	3.	.166	2.336	SI
533.	210.	3.	-4488.	-.001	.002	-372922.	-.35	1.754	3.	.166	83.09	SI
647.	323.	3.	-169638.	-.03	.046	-721226.	-.35	1.39	3.	.201	4.252	SI
647.	323.	3.	69068.	-.012	.019	721226.	-.35	1.39	3.	.201	10.44	SI
> 647.	0.	3.	-176715.	-.031	.048	-721226.	-.35	1.39	3.	.201	4.081	SI
647.	0.	3.	69026.	-.012	.019	721226.	-.35	1.39	3.	.201	10.45	SI
729.	82.	3.	-42889.	-.009	.012	-708839.	-.35	.962	3.	.267	16.53	SI
729.	82.	3.	118872.	-.026	.063	374171.	-.35	1.944	3.	.153	3.148	SI
760.	114.	3.	-6492.	-.002	.003	-372922.	-.35	1.754	3.	.166	57.44	SI
792.	146.	3.	159274.	-.041	.085	372922.	-.35	1.754	3.	.166	2.341	SI
970.	323.	3.	-176822.	-.031	.048	-721226.	-.35	1.39	3.	.201	4.079	SI
970.	323.	3.	68977.	-.012	.019	721226.	-.35	1.39	3.	.201	10.46	SI
> 970.	0.	3.	-174840.	-.031	.047	-721226.	-.35	1.39	3.	.201	4.125	SI
970.	0.	3.	69804.	-.012	.019	721226.	-.35	1.39	3.	.201	10.33	SI
1052.	82.	3.	-42312.	-.009	.012	-708839.	-.35	.962	3.	.267	16.75	SI
1052.	82.	3.	119276.	-.026	.063	374171.	-.35	1.944	3.	.153	3.137	SI
1084.	114.	3.	-6126.	-.002	.003	-372922.	-.35	1.754	3.	.166	60.88	SI
1116.	146.	3.	159419.	-.041	.085	372922.	-.35	1.754	3.	.166	2.339	SI
1293.	323.	3.	-178869.	-.031	.048	-721226.	-.35	1.39	3.	.201	4.032	SI
1293.	323.	3.	68581.	-.012	.019	721226.	-.35	1.39	3.	.201	10.52	SI
>1293.	0.	3.	-171490.	-.03	.046	-721226.	-.35	1.39	3.	.201	4.206	SI
1293.	0.	3.	71370.	-.012	.019	721226.	-.35	1.39	3.	.201	10.11	SI
1375.	82.	3.	-40843.	-.008	.011	-708839.	-.35	.962	3.	.267	17.36	SI
1375.	82.	3.	120156.	-.026	.064	374171.	-.35	1.944	3.	.153	3.114	SI
1407.	114.	3.	-5219.	-.001	.003	-372922.	-.35	1.754	3.	.166	71.45	SI
1439.	146.	3.	159693.	-.041	.085	372922.	-.35	1.754	3.	.166	2.335	SI
1617.	323.	3.	-182638.	-.032	.049	-721226.	-.35	1.39	3.	.201	3.949	SI
1617.	323.	3.	66822.	-.012	.018	721226.	-.35	1.39	3.	.201	10.79	SI
>1617.	0.	3.	-167956.	-.029	.045	-721226.	-.35	1.39	3.	.201	4.294	SI
1617.	0.	3.	97420.	-.017	.026	721226.	-.35	1.39	3.	.201	7.403	SI
1699.	82.	3.	-37518.	-.008	.01	-708839.	-.35	.962	3.	.267	18.89	SI
1699.	82.	3.	142003.	-.031	.075	374171.	-.35	1.944	3.	.153	2.635	SI
1730.	114.	3.	-1682.	0.	.001	-372922.	-.35	1.754	3.	.166	221.7	SI
1762.	146.	3.	182023.	-.047	.097	372922.	-.35	1.754	3.	.166	2.049	SI
1940.	323.	3.	-181151.	-.047	.096	-372922.	-.35	1.754	3.	.166	2.059	SI
1940.	323.	3.	89929.	-.023	.048	372922.	-.35	1.754	3.	.166	4.147	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-2160.	3147.	20252.	20251.	1.01	5.	1.3
0.	0.	3.	4337.	3147.	20252.	20251.	1.01	5.	1.3
323.	323.	3.	-4586.	4011.	20252.	20251.	1.01	5.	1.3
323.	323.	3.	1468.	4011.	20252.	20251.	1.01	5.	1.3
> 323.	0.	3.	-2628.	4011.	20252.	20251.	1.01	5.	1.3
323.	0.	3.	5400.	4011.	20252.	20251.	1.01	5.	1.3
647.	323.	3.	-5054.	4011.	20252.	20251.	1.01	5.	1.3
647.	323.	3.	2529.	4011.	20252.	20251.	1.01	5.	1.3
> 647.	0.	3.	-2756.	4011.	20252.	20251.	1.01	5.	1.3
647.	0.	3.	5403.	4011.	20252.	20251.	1.01	5.	1.3
970.	323.	3.	-5181.	4011.	20252.	20251.	1.01	5.	1.3
970.	323.	3.	2534.	4011.	20252.	20251.	1.01	5.	1.3
> 970.	0.	3.	-2756.	4011.	20252.	20251.	1.01	5.	1.3
970.	0.	3.	5403.	4011.	20252.	20251.	1.01	5.	1.3
1293.	323.	3.	-5181.	4011.	20252.	20251.	1.01	5.	1.3
1293.	323.	3.	2534.	4011.	20252.	20251.	1.01	5.	1.3
>1293.	0.	3.	-2751.	4011.	20252.	20251.	1.01	5.	1.3
1293.	0.	3.	5276.	4011.	20252.	20251.	1.01	5.	1.3
1617.	323.	3.	-5178.	4011.	20252.	20251.	1.01	5.	1.3
1617.	323.	3.	2406.	4011.	20252.	20251.	1.01	5.	1.3
>1617.	0.	3.	-1690.	4011.	20252.	20251.	1.01	5.	1.3
1617.	0.	3.	4807.	4011.	20252.	20251.	1.01	5.	1.3
1940.	323.	3.	-4115.	3147.	20252.	20251.	1.01	5.	1.3
1940.	323.	3.	1938.	3147.	20252.	20251.	1.01	5.	1.3

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	-120899.!	-43.!	1345.2!	4.62	5.96	.0419	17.03	.071	SI
10.	10.	3. 1.	-116118.!	-41.3!	1292.!	4.62	5.96	.0394	17.03	.067	SI
178.	178.	3. 1.	122737.!	-43.7!	1365.6!	4.62	5.96	.0429	17.03	.073	SI
323.	323.	3. 3.	-105128.!	-25.7!	596.8!	9.24	5.45	.0171	12.03	.021	SI
> 323.	0.	3. 3.	-123321.!	-30.2!	700.1!	9.24	5.45	.0215	12.03	.026	SI
501.	178.	3. 1.	108043.!	-38.4!	1202.1!	4.62	5.96	.0351	17.03	.06	SI
647.	323.	3. 3.	-111721.!	-27.4!	634.2!	9.24	5.45	.0183	12.03	.022	SI
> 647.	0.	3. 3.	-117043.!	-28.7!	664.4!	9.24	5.45	.0198	12.03	.024	SI
792.	146.	3. 1.	107783.!	-38.3!	1199.3!	4.62	5.96	.035	17.03	.06	SI
970.	323.	3. 3.	-117155.!	-28.7!	665.1!	9.24	5.45	.0198	12.03	.024	SI
> 970.	0.	3. 3.	-115494.!	-28.3!	655.6!	9.24	5.45	.0193	12.03	.023	SI
1116.	146.	3. 1.	107886.!	-38.4!	1200.4!	4.62	5.96	.0351	17.03	.06	SI
1293.	323.	3. 3.	-118760.!	-29.1!	674.2!	9.24	5.45	.0202	12.03	.024	SI
>1293.	0.	3. 3.	-112798.!	-27.6!	640.3!	9.24	5.45	.0186	12.03	.022	SI
1439.	146.	3. 1.	108092.!	-38.5!	1202.7!	4.62	5.96	.0352	17.03	.06	SI
1617.	323.	3. 3.	-121836.!	-29.8!	691.6!	9.24	5.45	.0211	12.03	.025	SI
>1617.	0.	3. 3.	-109449.!	-26.8!	621.3!	9.24	5.45	.0178	12.03	.021	SI
1762.	146.	3. 1.	123236.!	-43.8!	1371.2!	4.62	5.96	.0432	17.03	.074	SI
1940.	323.	3. 1.	-118768.!	-42.3!	1321.5!	4.62	5.96	.0408	17.03	.07	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	-78208.!	-27.8!	870.2!	4.62	5.96	.0249	17.03	.042	SI
10.	10.	3. 1.	-75197.!	-26.8!	836.7!	4.62	5.96	.0239	17.03	.041	SI
178.	178.	3. 1.	76485.!	-27.2!	851.!	4.62	5.96	.0243	17.03	.041	SI
323.	323.	3. 3.	-61880.!	-15.2!	351.3!	9.24	5.45	.01	12.03	.012	SI
> 323.	0.	3. 3.	-77414.!	-19.!	439.5!	9.24	5.45	.0126	12.03	.015	SI
501.	178.	3. 1.	67117.!	-23.9!	746.8!	4.62	5.96	.0213	17.03	.036	SI
647.	323.	3. 3.	-68527.!	-16.8!	389.!	9.24	5.45	.0111	12.03	.013	SI
> 647.	0.	3. 3.	-72639.!	-17.8!	412.4!	9.24	5.45	.0118	12.03	.014	SI
792.	146.	3. 1.	66916.!	-23.8!	744.5!	4.62	5.96	.0213	17.03	.036	SI
970.	323.	3. 3.	-72709.!	-17.8!	412.8!	9.24	5.45	.0118	12.03	.014	SI
> 970.	0.	3. 3.	-71398.!	-17.5!	405.3!	9.24	5.45	.0116	12.03	.014	SI
1116.	146.	3. 1.	66995.!	-23.8!	745.4!	4.62	5.96	.0213	17.03	.036	SI
1293.	323.	3. 3.	-74003.!	-18.1!	420.1!	9.24	5.45	.012	12.03	.014	SI
>1293.	0.	3. 3.	-68839.!	-16.9!	390.8!	9.24	5.45	.0112	12.03	.013	SI
1439.	146.	3. 1.	67204.!	-23.9!	747.8!	4.62	5.96	.0214	17.03	.036	SI
1617.	323.	3. 3.	-76761.!	-18.8!	435.8!	9.24	5.45	.0125	12.03	.015	SI
>1617.	0.	3. 3.	-63658.!	-15.6!	361.4!	9.24	5.45	.0103	12.03	.012	SI
1762.	146.	3. 1.	76734.!	-27.3!	853.8!	4.62	5.96	.0244	17.03	.042	SI
1940.	323.	3. 1.	-78202.!	-27.8!	870.1!	4.62	5.96	.0249	17.03	.042	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3. 1.	-67474.!	-24.!	750.8!	4.62	5.96	.0215	17.03	.037	SI
10.	10.	3. 1.	-64906.!	-23.1!	722.2!	4.62	5.96	.0206	17.03	.035	SI
178.	178.	3. 1.	64919.!	-23.1!	722.3!	4.62	5.96	.0206	17.03	.035	SI
323.	323.	3. 3.	-51127.!	-12.5!	290.2!	9.24	5.45	.0083	12.03	.01	SI
> 323.	0.	3. 3.	-65921.!	-16.1!	374.2!	9.24	5.45	.0107	12.03	.013	SI
501.	178.	3. 1.	56885.!	-20.2!	632.9!	4.62	5.96	.0181	17.03	.031	SI
647.	323.	3. 3.	-57745.!	-14.1!	327.8!	9.24	5.45	.0094	12.03	.011	SI
> 647.	0.	3. 3.	-61534.!	-15.1!	349.3!	9.24	5.45	.01	12.03	.012	SI
792.	146.	3. 1.	56699.!	-20.2!	630.9!	4.62	5.96	.018	17.03	.031	SI
970.	323.	3. 3.	-61602.!	-15.1!	349.7!	9.24	5.45	.01	12.03	.012	SI
> 970.	0.	3. 3.	-60373.!	-14.8!	342.7!	9.24	5.45	.0098	12.03	.012	SI
1116.	146.	3. 1.	56773.!	-20.2!	631.7!	4.62	5.96	.018	17.03	.031	SI
1293.	323.	3. 3.	-62815.!	-15.4!	356.6!	9.24	5.45	.0102	12.03	.012	SI
>1293.	0.	3. 3.	-57862.!	-14.2!	328.5!	9.24	5.45	.0094	12.03	.011	SI
1439.	146.	3. 1.	56981.!	-20.3!	634.!	4.62	5.96	.0181	17.03	.031	SI
1617.	323.	3. 3.	-65480.!	-16.!	371.7!	9.24	5.45	.0106	12.03	.013	SI
>1617.	0.	3. 3.	-52267.!	-12.8!	296.7!	9.24	5.45	.0085	12.03	.01	SI
1762.	146.	3. 1.	65106.!	-23.2!	724.4!	4.62	5.96	.0207	17.03	.035	SI
1940.	323.	3. 1.	-68001.!	-24.2!	756.6!	4.62	5.96	.0216	17.03	.037	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	9.24	1.232	4.62	.616	3d14	4.62	.616	3d14
2	13.85	1.847	9.24	1.232	3d14 +3d14	4.62	.616	3d14
3	18.47	2.463	9.24	1.232	3d14 +3d14	9.24	1.232	3d14 +3d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 66 - Travata T111 (trave)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.

Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
Copriferri (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecud=.35%
ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
CLS : σ_c (rara)=149.4; σ_c (quasi permanente)=112. ; fbd(esercizio)= 26.9
ACCIAIO : σ_f (rara)=3600.; Coeff.Omogetin= 15
FESSURE : wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: 30x25; A=750.; Jg=39062.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A344	3	3	3	0	345.	305.	13.8	1.3	1.762	35.722
2	A343	3	3	3	0	340.	305.	13.6	1.3	1.803	36.546

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMA PRINCIPALE	16
5.	SLU con SISMA PRINCIPALE	16

Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	-159494.	-.041	.085	-372922.	-.35	1.754	3.	.166	2.338	SI
0.	0.	3.	84688.	-.022	.045	372922.	-.35	1.754	3.	.166	4.403	SI
109.	109.	3.	-1642.	0.	.001	-372922.	-.35	1.754	3.	.166	227.1	SI
172.	172.	3.	211606.	-.056	.113	372922.	-.35	1.754	3.	.166	1.762	SI
268.	268.	3.	-66129.	-.013	.018	-708839.	-.35	.962	3.	.267	10.72	SI
268.	268.	3.	125985.	-.028	.067	374171.	-.35	1.944	3.	.153	2.97	SI
315.	315.	3.	90364.	-.016	.024	721226.	-.35	1.39	3.	.201	7.981	SI
345.	345.	3.	-246866.	-.044	.067	-721226.	-.35	1.39	3.	.201	2.922	SI
345.	345.	3.	61325.	-.011	.017	721226.	-.35	1.39	3.	.201	11.76	SI
> 345.	0.	3.	-216250.	-.038	.059	-721226.	-.35	1.39	3.	.201	3.335	SI
345.	0.	3.	65757.	-.011	.018	721226.	-.35	1.39	3.	.201	10.97	SI
390.	45.	3.	-119926.	-.025	.033	-708839.	-.35	.962	3.	.267	5.911	SI
390.	45.	3.	102408.	-.022	.054	374171.	-.35	1.944	3.	.153	3.654	SI
454.	109.	3.	-3018.	-.001	.002	-372922.	-.35	1.754	3.	.166	123.6	SI
518.	172.	3.	206836.	-.054	.11	372922.	-.35	1.754	3.	.166	1.803	SI
685.	340.	3.	-165890.	-.043	.088	-372922.	-.35	1.754	3.	.166	2.248	SI
685.	340.	3.	57534.	-.015	.031	372922.	-.35	1.754	3.	.166	6.482	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-1812.	3147.	20252.	20251.	1.01	5.	1.3
0.	0.	3.	4418.	3147.	20252.	20251.	1.01	5.	1.3
345.	345.	3.	-4519.	4011.	20252.	20251.	1.01	5.	1.3
345.	345.	3.	1356.	4011.	20252.	20251.	1.01	5.	1.3
> 345.	0.	3.	-1597.	4011.	20252.	20251.	1.01	5.	1.3
345.	0.	3.	4538.	4011.	20252.	20251.	1.01	5.	1.3
685.	340.	3.	-4304.	3147.	20252.	20251.	1.01	5.	1.3
685.	340.	3.	1520.	3147.	20252.	20251.	1.01	5.	1.3

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve
10.	10.	3.	-96927.	-34.5	1078.5	4.62	5.96	.0308	17.03	.052	SI
30.	30.	3.	-56000.	-19.9	623.1	4.62	5.96	.0178	17.03	.03	SI
172.	172.	3.	143255.	-51.	1593.9	4.62	5.96	.0538	17.03	.092	SI
345.	345.	3.	-168217.	-41.2	954.9	9.24	5.45	.0336	12.03	.04	SI
> 345.	0.	3.	-145380.	-35.6	825.3	9.24	5.45	.0274	12.03	.033	SI
518.	172.	3.	139966.	-49.8	1557.3	4.62	5.96	.0521	17.03	.089	SI
685.	340.	3.	-109656.	-39.	1220.1	4.62	5.96	.036	17.03	.061	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve	
10.	10.	3.	1.	-63660.	-22.6	708.3	4.62	5.96	.0202	17.03	.034	SI
30.	30.	3.	1.	-34845.	-12.4	387.7	4.62	5.96	.0111	17.03	.019	SI
172.	172.	3.	1.	89197.	-31.7	992.5	4.62	5.96	.0284	17.03	.048	SI
345.	345.	3.	3.	-109117.	-26.7	619.4	9.24	5.45	.0177	12.03	.021	SI
> 345.	0.	3.	3.	-84821.	-20.8	481.5	9.24	5.45	.0138	12.03	.017	SI
518.	172.	3.	1.	86853.	-30.9	966.4	4.62	5.96	.0276	17.03	.047	SI
685.	340.	3.	1.	-73492.	-26.1	817.7	4.62	5.96	.0234	17.03	.04	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve	
10.	10.	3.	1.	-53991.	-19.2	600.7	4.62	5.96	.0172	17.03	.029	SI
30.	30.	3.	1.	-29688.	-10.6	330.3	4.62	5.96	.0094	17.03	.016	SI
172.	172.	3.	1.	75680.	-26.9	842.1	4.62	5.96	.0241	17.03	.041	SI
345.	345.	3.	3.	-94302.	-23.1	535.3	9.24	5.45	.0153	12.03	.018	SI
> 345.	0.	3.	3.	-69725.	-17.1	395.8	9.24	5.45	.0113	12.03	.014	SI
518.	172.	3.	1.	73575.	-26.2	818.6	4.62	5.96	.0234	17.03	.04	SI
685.	340.	3.	1.	-64408.	-22.9	716.6	4.62	5.96	.0205	17.03	.035	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	9.24	1.232	4.62	.616	3d14	4.62	.616	3d14
2	13.85	1.847	9.24	1.232	3d14 +3d14	4.62	.616	3d14
3	18.47	2.463	9.24	1.232	3d14 +3d14	9.24	1.232	3d14 +3d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 39 - Travata T112 (trave)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN; daN/cm; daN/cm2; deform. %.
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferri (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
 gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecu= .35%
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS : σ_c (rara)=149.4; σ_c (quasi permanente)=112. ; fbd(esercizio)= 26.9
 ACCIAIO : σ_f (rara)=3600.; Coeff.Omogein.= 15
 FESSURE : wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: 30X25; A=750.; Jg=39062.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A217	3	3	3	0	323.	283.	12.933	1.3	5.	101.349
2	A218	3	3	3	0	323.	288.	12.933	1.5	5.	116.941
3	A305	3	3	3	0	323.	293.	12.933	1.5	5.	116.941
4	A306	3	3	3	0	323.	293.	12.933	1.5	5.	116.941
5	A307	3	3	3	0	323.	293.	12.933	1.5	5.	116.941
6	A308	3	3	3	0	323.	293.	12.933	1.5	5.	116.941
7	A309	3	3	3	0	345.	315.	13.8	1.5	5.	116.941
8	A310	3	3	3	0	340.	310.	13.6	1.3	5.	101.349

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	
5.	SLU con SISMAX PRINC16	

Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.1.	-82009.	!-.021	! .044	-372922.	!-.35	! 1.754	! 3.	! .166	! 4.547	! SI

0.	0.	3.	1.	32452.	-.008	.017	372922.	-.35	1.754	3.	.166	11.49	SI
145.	145.	3.	1.	-6212.	-.002	.003	-372922.	-.35	1.754	3.	.166	60.03	SI
245.	245.	3.	2.	-22999.	-.005	.006	-708839.	-.35	.962	3.	.267	30.82	SI
245.	245.	3.	2.	39373.	-.009	.021	374171.	-.35	1.944	3.	.153	9.503	SI
293.	293.	3.	3.	50013.	-.009	.014	721226.	-.35	1.39	3.	.201	14.42	SI
313.	313.	3.	3.	53530.	-.009	.014	721226.	-.35	1.39	3.	.201	13.47	SI
323.	323.	3.	3.	-52756.	-.009	.014	-721226.	-.35	1.39	3.	.201	13.67	SI
323.	323.	3.	3.	53530.	-.009	.014	721226.	-.35	1.39	3.	.201	13.47	SI
> 323.	0.	3.	3.	-69499.	-.012	.019	-721226.	-.35	1.39	3.	.201	10.38	SI
323.	0.	3.	3.	22807.	-.004	.006	721226.	-.35	1.39	3.	.201	31.62	SI
402.	79.	3.	2.	-35040.	-.007	.01	-708839.	-.35	.962	3.	.267	20.23	SI
402.	79.	3.	2.	23226.	-.005	.012	374171.	-.35	1.944	3.	.153	16.11	SI
470.	147.	3.	1.	-3695.	-.001	.002	-372922.	-.35	1.754	3.	.166	100.9	SI
607.	283.	3.	2.	36104.	-.008	.019	374171.	-.35	1.944	3.	.153	10.36	SI
637.	313.	3.	3.	38771.	-.007	.01	721226.	-.35	1.39	3.	.201	18.6	SI
647.	323.	3.	3.	-45614.	-.008	.012	-721226.	-.35	1.39	3.	.201	15.81	SI
647.	323.	3.	3.	38771.	-.007	.01	721226.	-.35	1.39	3.	.201	18.6	SI
> 647.	0.	3.	3.	-44270.	-.008	.012	-721226.	-.35	1.39	3.	.201	16.29	SI
647.	0.	3.	3.	32258.	-.006	.009	721226.	-.35	1.39	3.	.201	22.36	SI
687.	40.	3.	2.	-33751.	-.007	.009	-708839.	-.35	.962	3.	.267	21.	SI
687.	40.	3.	2.	31224.	-.007	.017	374171.	-.35	1.944	3.	.153	11.98	SI
826.	179.	3.	1.	-1127.	0.	.001	-372922.	-.35	1.754	3.	.166	330.8	SI
970.	323.	3.	3.	-60355.	-.01	.016	-721226.	-.35	1.39	3.	.201	11.95	SI
970.	323.	3.	3.	17636.	-.003	.005	721226.	-.35	1.39	3.	.201	40.9	SI
> 970.	0.	3.	3.	-54435.	-.009	.015	-721226.	-.35	1.39	3.	.201	13.25	SI
970.	0.	3.	3.	24058.	-.004	.006	721226.	-.35	1.39	3.	.201	29.98	SI
1010.	40.	3.	2.	-42563.	-.009	.012	-708839.	-.35	.962	3.	.267	16.65	SI
1010.	40.	3.	2.	24564.	-.005	.013	374171.	-.35	1.944	3.	.153	15.23	SI
1114.	144.	3.	1.	-204.	0.	0.	-372922.	-.35	1.754	3.	.166	1826.	SI
1253.	283.	3.	2.	25941.	-.006	.014	374171.	-.35	1.944	3.	.153	14.42	SI
1293.	323.	3.	3.	-52558.	-.009	.014	-721226.	-.35	1.39	3.	.201	13.72	SI
1293.	323.	3.	3.	25790.	-.004	.007	721226.	-.35	1.39	3.	.201	27.97	SI
> 1293.	0.	3.	3.	-52645.	-.009	.014	-721226.	-.35	1.39	3.	.201	13.7	SI
1293.	0.	3.	3.	25197.	-.004	.007	721226.	-.35	1.39	3.	.201	28.62	SI
1333.	40.	3.	2.	-40999.	-.008	.011	-708839.	-.35	.962	3.	.267	17.29	SI
1333.	40.	3.	2.	25528.	-.006	.014	374171.	-.35	1.944	3.	.153	14.66	SI
1403.	110.	3.	2.	-11219.	-.002	.003	-708839.	-.35	.962	3.	.267	63.18	SI
1617.	323.	3.	3.	-53253.	-.009	.014	-721226.	-.35	1.39	3.	.201	13.54	SI
1617.	323.	3.	3.	24456.	-.004	.007	721226.	-.35	1.39	3.	.201	29.49	SI
> 1617.	0.	3.	3.	-48734.	-.008	.013	-721226.	-.35	1.39	3.	.201	14.8	SI
1617.	0.	3.	3.	30322.	-.005	.008	721226.	-.35	1.39	3.	.201	23.79	SI
1657.	40.	3.	2.	-37697.	-.008	.01	-708839.	-.35	.962	3.	.267	18.8	SI
1657.	40.	3.	2.	29488.	-.006	.016	374171.	-.35	1.944	3.	.153	12.69	SI
1796.	179.	3.	1.	-1807.	0.	.001	-372922.	-.35	1.754	3.	.166	206.3	SI
1940.	323.	3.	3.	-60193.	-.01	.016	-721226.	-.35	1.39	3.	.201	11.98	SI
1940.	323.	3.	3.	20190.	-.003	.005	721226.	-.35	1.39	3.	.201	35.72	SI
> 1940.	0.	3.	3.	-47133.	-.008	.013	-721226.	-.35	1.39	3.	.201	15.3	SI
1940.	0.	3.	3.	28003.	-.005	.008	721226.	-.35	1.39	3.	.201	25.76	SI
1980.	40.	3.	2.	-36458.	-.007	.01	-708839.	-.35	.962	3.	.267	19.44	SI
1980.	40.	3.	2.	28700.	-.006	.015	374171.	-.35	1.944	3.	.153	13.04	SI
2079.	139.	3.	1.	-565.	0.	0.	-372922.	-.35	1.754	3.	.166	660.6	SI
2285.	345.	3.	3.	-57810.	-.01	.016	-721226.	-.35	1.39	3.	.201	12.48	SI
2285.	345.	3.	3.	15568.	-.003	.004	721226.	-.35	1.39	3.	.201	46.33	SI
> 2285.	0.	3.	3.	-40189.	-.007	.011	-721226.	-.35	1.39	3.	.201	17.95	SI
2285.	0.	3.	3.	40171.	-.007	.011	721226.	-.35	1.39	3.	.201	17.95	SI
2358.	72.	3.	2.	-16807.	-.003	.005	-708839.	-.35	.962	3.	.267	42.18	SI
2358.	72.	3.	2.	33594.	-.007	.018	374171.	-.35	1.944	3.	.153	11.14	SI
2390.	105.	3.	1.	-5672.	-.001	.003	-372922.	-.35	1.754	3.	.166	65.74	SI
2625.	340.	3.	1.	-76579.	-.019	.041	-372922.	-.35	1.754	3.	.166	4.87	SI
2625.	340.	3.	1.	17136.	-.004	.009	372922.	-.35	1.754	3.	.166	21.76	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-3110.	3147.	20252.	20251.	1.01	5.	1.3	SI
0.	0.	3.	3301.	3147.	20252.	20251.	1.01	5.	1.3	SI
323.	323.	3.	-3641.	4011.	20252.	20251.	1.01	5.	1.3	SI
323.	323.	3.	2695.	4011.	20252.	20251.	1.01	5.	1.3	SI
> 323.	0.	3.	-4189.	5053.	20252.	20251.	1.01	5.	1.3	SI
323.	0.	3.	4474.	5053.	20252.	20251.	1.01	5.	1.3	SI
647.	323.	3.	-4730.	3147.	20252.	20251.	1.01	5.	1.3	SI
647.	323.	3.	3867.	3147.	20252.	20251.	1.01	5.	1.3	SI
> 647.	0.	3.	-3794.	4011.	20252.	20251.	1.01	5.	1.3	SI
647.	0.	3.	4465.	4011.	20252.	20251.	1.01	5.	1.3	SI
970.	323.	3.	-4344.	4011.	20252.	20251.	1.01	5.	1.3	SI
970.	323.	3.	3859.	4011.	20252.	20251.	1.01	5.	1.3	SI
> 970.	0.	3.	-3890.	4011.	20252.	20251.	1.01	5.	1.3	SI
970.	0.	3.	4468.	4011.	20252.	20251.	1.01	5.	1.3	SI
1293.	323.	3.	-4440.	4011.	20252.	20251.	1.01	5.	1.3	SI
1293.	323.	3.	3862.	4011.	20252.	20251.	1.01	5.	1.3	SI
> 1293.	0.	3.	-3890.	4011.	20252.	20251.	1.01	5.	1.3	SI
1293.	0.	3.	4468.	4011.	20252.	20251.	1.01	5.	1.3	SI
1617.	323.	3.	-4440.	4011.	20252.	20251.	1.01	5.	1.3	SI
1617.	323.	3.	3861.	4011.	20252.	20251.	1.01	5.	1.3	SI
> 1617.	0.	3.	-3896.	4011.	20252.	20251.	1.01	5.	1.3	SI
1617.	0.	3.	4758.	4011.	20252.	20251.	1.01	5.	1.3	SI
1940.	323.	3.	-4446.	4011.	20252.	20251.	1.01	5.	1.3	SI
1940.	323.	3.	4152.	4011.	20252.	20251.	1.01	5.	1.3	SI
> 1940.	0.	3.	-3613.	4011.	20252.	20251.	1.01	5.	1.3	SI
1940.	0.	3.	4499.	4011.	20252.	20251.	1.01	5.	1.3	SI
2285.	345.	3.	-4204.	4011.	20252.	20251.	1.01	5.	1.3	SI

2285.	345.	3.	3852.	4011.	20252.	20251.	1.01	5.	1.3	SI
>2285.	0.	3.	-2926.	4011.	20252.	20251.	1.01	5.	1.3	SI
2285.	0.	3.	3353.	4011.	20252.	20251.	1.01	5.	1.3	SI
2625.	340.	3.	-3507.	3147.	20252.	20251.	1.01	5.	1.3	SI
2625.	340.	3.	2716.	3147.	20252.	20251.	1.01	5.	1.3	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	-27938.	-9.9	310.8	4.62	5.96	.0089	17.03	.015	SI
10.	10.	3.	-27142.	-9.7	302.	4.62	5.96	.0086	17.03	.015	SI
212.	212.	3.	13667.	-4.9	152.1	4.62	5.96	.0043	17.03	.007	SI
323.	323.	3.	-11933.	-2.9	67.7	9.24	5.45	.0019	12.03	.002	SI
> 323.	0.	3.	-24920.	-6.1	141.5	9.24	5.45	.004	12.03	.005	SI
505.	181.	3.	12115.	-4.3	134.8	4.62	5.96	.0039	17.03	.007	SI
539.	215.	3.	11908.	-3.7	132.3	4.62	6.18	.0038	17.37	.007	SI
647.	323.	3.	-11984.	-2.9	68.	9.24	5.45	.0019	12.03	.002	SI
> 647.	0.	3.	-11920.	-2.9	67.7	9.24	5.45	.0019	12.03	.002	SI
791.	144.	3.	11988.	-4.3	133.4	4.62	5.96	.0038	17.03	.006	SI
970.	323.	3.	-22125.	-5.4	125.6	9.24	5.45	.0036	12.03	.004	SI
> 970.	0.	3.	-15228.	-3.7	86.4	9.24	5.45	.0025	12.03	.003	SI
1149.	179.	3.	12037.	-4.3	133.9	4.62	5.96	.0038	17.03	.007	SI
1293.	323.	3.	-13341.	-3.3	75.7	9.24	5.45	.0022	12.03	.003	SI
>1293.	0.	3.	-13581.	-3.3	77.1	9.24	5.45	.0022	12.03	.003	SI
1438.	144.	3.	12039.	-4.3	134.	4.62	5.96	.0038	17.03	.007	SI
1617.	323.	3.	-14471.	-3.5	82.1	9.24	5.45	.0023	12.03	.003	SI
>1617.	0.	3.	-11920.	-2.9	67.7	9.24	5.45	.0019	12.03	.002	SI
1761.	144.	3.	12008.	-4.3	133.6	4.62	5.96	.0038	17.03	.007	SI
1940.	323.	3.	-21668.	-5.3	123.	9.24	5.45	.0035	12.03	.004	SI
>1940.	0.	3.	-13948.	-3.4	79.2	9.24	5.45	.0023	12.03	.003	SI
2112.	172.	3.	14082.	-5.	156.7	4.62	5.96	.0045	17.03	.008	SI
2285.	345.	3.	-22365.	-5.5	127.	9.24	5.45	.0036	12.03	.004	SI
>2285.	0.	3.	-13547.	-3.3	76.9	9.24	5.45	.0022	12.03	.003	SI
2422.	138.	3.	15560.	-5.5	173.1	4.62	5.96	.0049	17.03	.008	SI
2625.	340.	3.	-26727.	-9.5	297.4	4.62	5.96	.0085	17.03	.014	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	-25744.	-9.2	286.4	4.62	5.96	.0082	17.03	.014	SI
10.	10.	3.	-24966.	-8.9	277.8	4.62	5.96	.0079	17.03	.014	SI
212.	212.	3.	13704.	-4.9	152.5	4.62	5.96	.0044	17.03	.007	SI
323.	323.	3.	-11933.	-2.9	67.7	9.24	5.45	.0019	12.03	.002	SI
> 323.	0.	3.	-23861.	-5.8	135.5	9.24	5.45	.0039	12.03	.005	SI
505.	181.	3.	12097.	-4.3	134.6	4.62	5.96	.0038	17.03	.007	SI
647.	323.	3.	-11984.	-2.9	68.	9.24	5.45	.0019	12.03	.002	SI
> 647.	0.	3.	-11920.	-2.9	67.7	9.24	5.45	.0019	12.03	.002	SI
791.	144.	3.	11929.	-4.2	132.7	4.62	5.96	.0038	17.03	.006	SI
970.	323.	3.	-21682.	-5.3	123.1	9.24	5.45	.0035	12.03	.004	SI
> 970.	0.	3.	-15224.	-3.7	86.4	9.24	5.45	.0025	12.03	.003	SI
1149.	179.	3.	12027.	-4.3	133.8	4.62	5.96	.0038	17.03	.007	SI
1293.	323.	3.	-13369.	-3.3	75.9	9.24	5.45	.0022	12.03	.003	SI
>1293.	0.	3.	-13709.	-3.4	77.8	9.24	5.45	.0022	12.03	.003	SI
1438.	144.	3.	12002.	-4.3	133.5	4.62	5.96	.0038	17.03	.006	SI
1617.	323.	3.	-14424.	-3.5	81.9	9.24	5.45	.0023	12.03	.003	SI
>1617.	0.	3.	-11920.	-2.9	67.7	9.24	5.45	.0019	12.03	.002	SI
1761.	144.	3.	11932.	-4.2	132.8	4.62	5.96	.0038	17.03	.006	SI
1940.	323.	3.	-20402.	-5.	115.8	9.24	5.45	.0033	12.03	.004	SI
>1940.	0.	3.	-13948.	-3.4	79.2	9.24	5.45	.0023	12.03	.003	SI
2112.	172.	3.	14053.	-5.	156.4	4.62	5.96	.0045	17.03	.008	SI
2285.	345.	3.	-21510.	-5.3	122.1	9.24	5.45	.0035	12.03	.004	SI
>2285.	0.	3.	-13547.	-3.3	76.9	9.24	5.45	.0022	12.03	.003	SI
2422.	138.	3.	15513.	-5.5	172.6	4.62	5.96	.0049	17.03	.008	SI
2625.	340.	3.	-29488.	-10.5	328.1	4.62	5.96	.0094	17.03	.016	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	-25151.	-8.9	279.8	4.62	5.96	.008	17.03	.014	SI
10.	10.	3.	-24378.	-8.7	271.2	4.62	5.96	.0077	17.03	.013	SI
178.	178.	3.	13656.	-4.9	151.9	4.62	5.96	.0043	17.03	.007	SI
323.	323.	3.	-11933.	-2.9	67.7	9.24	5.45	.0019	12.03	.002	SI
> 323.	0.	3.	-23552.	-5.8	133.7	9.24	5.45	.0038	12.03	.005	SI
505.	181.	3.	12050.	-4.3	134.1	4.62	5.96	.0038	17.03	.007	SI
647.	323.	3.	-11984.	-2.9	68.	9.24	5.45	.0019	12.03	.002	SI
> 647.	0.	3.	-11920.	-2.9	67.7	9.24	5.45	.0019	12.03	.002	SI
791.	144.	3.	12058.	-4.3	134.2	4.62	5.96	.0038	17.03	.007	SI
970.	323.	3.	-21534.	-5.3	122.2	9.24	5.45	.0035	12.03	.004	SI
> 970.	0.	3.	-15209.	-3.7	86.3	9.24	5.45	.0025	12.03	.003	SI
1149.	179.	3.	12023.	-4.3	133.8	4.62	5.96	.0038	17.03	.007	SI
1293.	323.	3.	-13390.	-3.3	76.	9.24	5.45	.0022	12.03	.003	SI
>1293.	0.	3.	-13737.	-3.4	78.	9.24	5.45	.0022	12.03	.003	SI
1438.	144.	3.	11993.	-4.3	133.4	4.62	5.96	.0038	17.03	.006	SI
1617.	323.	3.	-14417.	-3.5	81.8	9.24	5.45	.0023	12.03	.003	SI
>1617.	0.	3.	-11920.	-2.9	67.7	9.24	5.45	.0019	12.03	.002	SI
1761.	144.	3.	11952.	-4.3	133.	4.62	5.96	.0038	17.03	.006	SI
1940.	323.	3.	-20072.	-4.9	113.9	9.24	5.45	.0033	12.03	.004	SI
>1940.	0.	3.	-13948.	-3.4	79.2	9.24	5.45	.0023	12.03	.003	SI

2112.	172.	3.	1.	14044.!	-5.	156.3!	4.62	5.96	.0045	17.03	.008!	SI
2285.	345.	3.	3.	-21288.!	-5.2!	120.8!	9.24	5.45	.0035	12.03	.004!	SI
>2285.	0.	3.	3.	-13547.!	-3.3!	76.9!	9.24	5.45	.0022	12.03	.003!	SI
2422.	138.	3.	1.	15566.!	-5.5!	173.2!	4.62	5.96	.0049	17.03	.008!	SI
2625.	340.	3.	1.	-30107.!	-10.7!	335.!	4.62	5.96	.0096	17.03	.016!	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	9.24	1.232	4.62	.616	3d14	4.62	.616	3d14
2	13.85	1.847	9.24	1.232	3d14 +3d14	4.62	.616	3d14
3	18.47	2.463	9.24	1.232	3d14 +3d14	9.24	1.232	3d14 +3d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 42 - Travata T115 (trave)
Metodo di verifica : stati limite (NTC08).
Duttilita' : bassa con gerarchia.
Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.
Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.
Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecu= .35%
ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
CLS : σc (rara)=149.4; σc (quasi permanente)=112. ; fbd(esercizio)= 26.9
ACCIAIO : σf (rara)=3600.; Coeff.Omogein.= 15
FESSURE : wmax(fre.)=.4 ; wmax(q.p.)=.3 [4.1.2.2.4.5];
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: 30x25; A=750.; Jg=39062.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A324	3	3	3	0	323.	273.	12.933	1.3	2.051	41.57
2	A325	3	3	3	0	323.	273.	12.933	1.5	2.339	54.698
3	A326	3	3	3	0	323.	273.	12.933	1.5	2.326	54.39
4	A327	3	3	3	0	323.	273.	12.933	1.3	2.046	41.467

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	
5.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-202570.!	-.053!	.108!	-372922.	-.35	1.754	3.	.166	1.841!	SI
0.	0.	3.	1.	54808.	-.014	.029	372922.	-.35	1.754	3.	.166	6.804	SI
178.	178.	3.	1.	181839.!	-.047	.097	372922.	-.35	1.754	3.	.166	2.051	SI
241.	241.	3.	2.	-13941.	-.003	.004	-708839.	-.35	.962	3.	.267!	50.85!	SI
241.	241.	3.	2.	134368.	-.03	.071	374171.	-.35	1.944	3.	.153!	2.785!	SI
273.	273.	3.	3.	110816.	-.019	.03	721226.!	-.35	1.39	3.	.201!	6.508!	SI
323.	323.	3.	3.	-136543.	-.024	.037	-721226.!	-.35	1.39	3.	.201!	5.282!	SI
323.	323.	3.	3.	77134.	-.013	.021	721226.	-.35	1.39	3.	.201!	9.35!	SI
> 323.	0.	3.	3.	-167450.	-.029	.045	-721226.	-.35	1.39	3.	.201!	4.307!	SI
323.	0.	3.	3.	54809.	-.009	.015	721226.!	-.35	1.39	3.	.201!	13.16!	SI
405.	82.	3.	2.	-29523.	-.006	.008	-708839.	-.35	.962	3.	.267!	24.01!	SI
405.	82.	3.	2.	113551.	-.025	.06	374171.	-.35	1.944	3.	.153!	3.295!	SI
469.	146.	3.	1.	159458.!	-.041!	.085!	372922.	-.35	1.754	3.	.166!	2.339!	SI
533.	210.	3.	1.	-2006.	-.001	.001	-372922.	-.35	1.754	3.	.166!	185.9!	SI
647.	323.	3.	3.	-179418.!	-.031	.049	-721226.!	-.35	1.39	3.	.201!	4.02!	SI
647.	323.	3.	3.	47043.	-.008	.013	721226.	-.35	1.39	3.	.201!	15.33!	SI
> 647.	0.	3.	3.	-160247.	-.028	.043	-721226.	-.35	1.39	3.	.201!	4.501!	SI
647.	0.	3.	3.	58904.	-.01	.016	721226.	-.35	1.39	3.	.201!	12.24!	SI
729.	82.	3.	2.	-27854.	-.006	.008	-708839.	-.35	.962	3.	.267!	25.45!	SI

729.	82.	3.	2.	115760.	-.025	.061	374171.	-.35	1.944	3.	.153	3.232	SI
792.	146.	3.	1.	160360.	-.042	.085	372922.	-.35	1.754	3.	.166	2.326	SI
856.	210.	3.	1.	-3952.	-.001	.002	-372922.	-.35	1.754	3.	.166	94.36	SI
970.	323.	3.	3.	-187181.	-.033	.051	-721226.	-.35	1.39	3.	.201	3.853	SI
970.	323.	3.	3.	47081.	-.008	.013	721226.	-.35	1.39	3.	.201	15.32	SI
> 970.	0.	3.	3.	-159559.	-.028	.043	-721226.	-.35	1.39	3.	.201	4.52	SI
970.	0.	3.	3.	82562.	-.014	.022	721226.	-.35	1.39	3.	.201	8.736	SI
1052.	82.	3.	2.	-25971.	-.005	.007	-708839.	-.35	.962	3.	.267	27.29	SI
1052.	82.	3.	2.	136604.	-.03	.072	374171.	-.35	1.944	3.	.153	2.739	SI
1116.	146.	3.	1.	182291.	-.048	.097	372922.	-.35	1.754	3.	.166	2.046	SI
1180.	210.	3.	1.	-6887.	-.002	.004	-372922.	-.35	1.754	3.	.166	54.15	SI
1293.	323.	3.	1.	-181296.	-.047	.096	-372922.	-.35	1.754	3.	.166	2.057	SI
1293.	323.	3.	1.	70631.	-.018	.037	372922.	-.35	1.754	3.	.166	5.28	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	-2171.	3147.	20252.	20251.	1.01	5.	1.3	SI
0.	0.	3.	4819.	3147.	20252.	20251.	1.01	5.	1.3	SI
323.	323.	3.	-4597.	4011.	20252.	20251.	1.01	5.	1.3	SI
323.	323.	3.	1949.	4011.	20252.	20251.	1.01	5.	1.3	SI
> 323.	0.	3.	-3248.	4011.	20252.	20251.	1.01	5.	1.3	SI
323.	0.	3.	5896.	4011.	20252.	20251.	1.01	5.	1.3	SI
647.	323.	3.	-5674.	4011.	20252.	20251.	1.01	5.	1.3	SI
647.	323.	3.	3027.	4011.	20252.	20251.	1.01	5.	1.3	SI
> 647.	0.	3.	-3248.	4011.	20252.	20251.	1.01	5.	1.3	SI
647.	0.	3.	5896.	4011.	20252.	20251.	1.01	5.	1.3	SI
970.	323.	3.	-5674.	4011.	20252.	20251.	1.01	5.	1.3	SI
970.	323.	3.	3026.	4011.	20252.	20251.	1.01	5.	1.3	SI
> 970.	0.	3.	-2171.	4011.	20252.	20251.	1.01	5.	1.3	SI
970.	0.	3.	4819.	4011.	20252.	20251.	1.01	5.	1.3	SI
1293.	323.	3.	-4597.	3147.	20252.	20251.	1.01	5.	1.3	SI
1293.	323.	3.	1949.	3147.	20252.	20251.	1.01	5.	1.3	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-139359.	-49.6	1550.6	4.62	5.96	.0517	17.03	.088	SI
10.	10.	3.	1.	-134351.	-47.8	1494.9	4.62	5.96	.0491	17.03	.084	SI
178.	178.	3.	1.	123149.	-43.8	1370.2	4.62	5.96	.0431	17.03	.073	SI
323.	323.	3.	3.	-89090.	-21.8	505.8	9.24	5.45	.0145	12.03	.017	SI
> 323.	0.	3.	3.	-112706.	-27.6	639.8	9.24	5.45	.0186	12.03	.022	SI
469.	146.	3.	1.	107953.	-38.4	1201.1	4.62	5.96	.0351	17.03	.06	SI
647.	323.	3.	3.	-122011.	-29.9	692.6	9.24	5.45	.0211	12.03	.025	SI
> 647.	0.	3.	3.	-107012.	-26.2	607.5	9.24	5.45	.0174	12.03	.021	SI
792.	146.	3.	1.	108587.	-38.6	1208.2	4.62	5.96	.0354	17.03	.06	SI
970.	323.	3.	3.	-127489.	-31.2	723.7	9.24	5.45	.0226	12.03	.027	SI
> 970.	0.	3.	3.	-105979.	-26.	601.6	9.24	5.45	.0172	12.03	.021	SI
1116.	146.	3.	1.	123434.	-43.9	1373.4	4.62	5.96	.0433	17.03	.074	SI
1293.	323.	3.	1.	-122376.	-43.5	1361.6	4.62	5.96	.0427	17.03	.073	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-95988.	-34.2	1068.	4.62	5.96	.0305	17.03	.052	SI
10.	10.	3.	1.	-92783.	-33.	1032.4	4.62	5.96	.0295	17.03	.05	SI
178.	178.	3.	1.	76845.	-27.3	855.	4.62	5.96	.0244	17.03	.042	SI
323.	323.	3.	3.	-66742.	-16.3	378.9	9.24	5.45	.0108	12.03	.013	SI
> 323.	0.	3.	3.	-67455.	-16.5	382.9	9.24	5.45	.0109	12.03	.013	SI
469.	146.	3.	1.	67215.	-23.9	747.9	4.62	5.96	.0214	17.03	.036	SI
647.	323.	3.	3.	-78217.	-19.2	444.	9.24	5.45	.0127	12.03	.015	SI
> 647.	0.	3.	3.	-63090.	-15.5	358.2	9.24	5.45	.0102	12.03	.012	SI
792.	146.	3.	1.	66790.	-23.8	743.1	4.62	5.96	.0212	17.03	.036	SI
970.	323.	3.	3.	-82391.	-20.2	467.7	9.24	5.45	.0134	12.03	.016	SI
> 970.	0.	3.	3.	-60283.	-14.8	342.2	9.24	5.45	.0098	12.03	.012	SI
1116.	146.	3.	1.	76926.	-27.4	855.9	4.62	5.96	.0245	17.03	.042	SI
1293.	323.	3.	1.	-81716.	-29.1	909.2	4.62	5.96	.026	17.03	.044	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 0.	0.	3.	1.	-85064.	-30.3	946.5	4.62	5.96	.027	17.03	.046	SI
10.	10.	3.	1.	-82324.	-29.3	916.	4.62	5.96	.0262	17.03	.045	SI
178.	178.	3.	1.	64527.	-23.	718.	4.62	5.96	.0205	17.03	.035	SI
323.	323.	3.	3.	-56548.	-13.8	321.	9.24	5.45	.0092	12.03	.011	SI
> 323.	0.	3.	3.	-56179.	-13.8	318.9	9.24	5.45	.0091	12.03	.011	SI
469.	146.	3.	1.	57028.	-20.3	634.5	4.62	5.96	.0181	17.03	.031	SI
647.	323.	3.	3.	-67232.	-16.5	381.7	9.24	5.45	.0109	12.03	.013	SI
> 647.	0.	3.	3.	-52153.	-12.8	296.1	9.24	5.45	.0085	12.03	.01	SI
792.	146.	3.	1.	56702.	-20.2	630.9	4.62	5.96	.018	17.03	.031	SI
970.	323.	3.	3.	-71074.	-17.4	403.5	9.24	5.45	.0115	12.03	.014	SI
> 970.	0.	3.	3.	-48929.	-12.	277.8	9.24	5.45	.0079	12.03	.01	SI
1116.	146.	3.	1.	64548.	-23.	718.2	4.62	5.96	.0205	17.03	.035	SI
1293.	323.	3.	1.	-71478.	-25.4	795.3	4.62	5.96	.0227	17.03	.039	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
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1	9.24	1.232	4.62	.616	3d14	4.62	.616	3d14
2	13.85	1.847	9.24	1.232	3d14 +3d14	4.62	.616	3d14
3	18.47	2.463	9.24	1.232	3d14 +3d14	9.24	1.232	3d14 +3d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 43 - Travata T116 (trave)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN; daN/cm; daN/cm²; deform. %.
 Unità particolari : fessure [wk];mm - ferri:mm e cm² - sezioni:cm e derivate.
 Copriferri (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecud=.35%
ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
CLS : σc (rara)=149.4; σc (quasi permanente)=112. ; fbd(esercizio)= 26.9
ACCIAIO : σf (rara)=3600.; Coeff.Omogein.= 15
FESSURE : wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];
kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: 30X25; A=750.; Jg=39062.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A215	3	3	3	0	314.	274.	12.566	1.3	1.155	23.415
2	A216	3	3	3	0	310.	270.	12.4	1.3	1.133	22.969

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	
5.	SLU con SISMAX PRINC16	

Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente		12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	1.	-258220.	-.069	.138	-372922.	-.35	1.754	3.	.166	1.444
0.	0.	3.	1.	24619.	-.006	.013	372922.	-.35	1.754	3.	.166	15.15
173.	173.	3.	1.	322835.	-.087	.172	372922.	-.35	1.754	3.	.166	1.155
205.	205.	3.	2.	296441.	-.067	.158	374171.	-.35	1.944	3.	.153	1.262
237.	237.	3.	2.	-31193.	-.006	.009	-708839.	-.35	.962	3.	.267	22.72
284.	284.	3.	3.	112358.	-.019	.03	721226.	-.35	1.39	3.	.201	6.419
314.	314.	3.	3.	-351014.	-.063	.095	-721226.	-.35	1.39	3.	.201	2.055
314.	314.	3.	3.	14066.	-.002	.004	721226.	-.35	1.39	3.	.201	51.28
> 314.	0.	3.	3.	-326262.	-.058	.089	-721226.	-.35	1.39	3.	.201	2.211
314.	0.	3.	3.	10715.	-.002	.003	721226.	-.35	1.39	3.	.201	67.31
422.	108.	3.	2.	274622.	-.062	.146	374171.	-.35	1.944	3.	.153	1.362
485.	171.	3.	1.	329093.	-.089	.176	372922.	-.35	1.754	3.	.166	1.133
548.	234.	3.	1.	-3342.	-.001	.002	-372922.	-.35	1.754	3.	.166	111.6
624.	310.	3.	1.	-281425.	-.075	.15	-372922.	-.35	1.754	3.	.166	1.325
624.	310.	3.	1.	25722.	-.006	.014	372922.	-.35	1.754	3.	.166	14.5

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-787.	3147.	20252.	20251.	1.01	5.	1.3
0.	0.	3.	5883.	3147.	20252.	20251.	1.01	5.	1.3
314.	314.	3.	-7382.	4011.	20252.	20251.	1.01	5.	1.3
> 314.	0.	3.	-320.	5053.	20252.	20251.	1.01	5.	1.3
314.	0.	3.	6757.	5053.	20252.	20251.	1.01	5.	1.3
624.	310.	3.	-6962.	3147.	20252.	20251.	1.01	5.	1.3

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve
10.	10.	3. 1.	-171675.	-61.1	1910.2	4.62	5.96	.0689	17.03	.117	SI
173.	173.	3. 1.	226817.	-80.7	2523.7	4.62	5.96	.0981	17.03	.167	SI
314.	314.	3. 3.	-246897.	-60.5	1401.6	9.24	5.45	.0549	12.03	.066	SI
> 314.	0.	3. 3.	-229430.	-56.2	1302.4	9.24	5.45	.0501	12.03	.06	SI
485.	171.	3. 1.	231667.	-82.4	2577.7	4.62	5.96	.1006	17.03	.171	SI
624.	310.	3. 1.	-197809.	-70.4	2200.9	4.62	5.96	.0827	17.03	.141	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve
10.	10.	3. 1.	-130315.	-46.4	1450.	4.62	5.96	.0469	17.03	.08	SI
173.	173.	3. 1.	175607.	-62.5	1953.9	4.62	5.96	.0709	17.03	.121	SI
314.	314.	3. 3.	-191980.	-47.	1089.8	9.24	5.45	.04	12.03	.048	SI
> 314.	0.	3. 3.	-178102.	-43.6	1011.1	9.24	5.45	.0363	12.03	.044	SI
485.	171.	3. 1.	179045.	-63.7	1992.2	4.62	5.96	.0728	17.03	.124	SI
624.	310.	3. 1.	-153817.	-54.7	1711.5	4.62	5.96	.0594	17.03	.101	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve
10.	10.	3. 1.	-119541.	-42.5	1330.1	4.62	5.96	.0412	17.03	.07	SI
173.	173.	3. 1.	162181.	-57.7	1804.5	4.62	5.96	.0638	17.03	.109	SI
314.	314.	3. 3.	-177582.	-43.5	1008.1	9.24	5.45	.0361	12.03	.043	SI
> 314.	0.	3. 3.	-164646.	-40.3	934.7	9.24	5.45	.0326	12.03	.039	SI
485.	171.	3. 1.	165883.	-59.	1845.7	4.62	5.96	.0658	17.03	.112	SI
624.	310.	3. 1.	-142253.	-50.6	1582.8	4.62	5.96	.0533	17.03	.091	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	9.24	1.232	4.62	.616	3d14	4.62	.616	3d14
2	13.85	1.847	9.24	1.232	3d14 +3d14	4.62	.616	3d14
3	18.47	2.463	9.24	1.232	3d14 +3d14	9.24	1.232	3d14 +3d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 44 - Travata T117 (trave)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
 gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecu=35%
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS : σ_c (rara)=149.4; σ_c (quasi permanente)=112. ; fbd(esercizio)= 26.9
 ACCIAIO : σ_f (rara)=3600.; Coeff.Omoegin.= 15
 FESSURE : wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: 30X25; A=750.; Jg=39062.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A214	3	3	3	0	522.	492.	20.869	1.	3.478	54.237

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	16
5.	SLU con SISMAX PRINC16	16

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epscl	Epsac	Mrd	Epscl	Epsac	Cam	x/d	Mr/Ms	VE
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>	0.	0.	3.	1.	-98343.	-.025	.052	-372922.	-.35	1.754	3.	.166	3.792	SI
	10.	10.	3.	1.	3061.	-.001	.002	372922.	-.35	1.754	3.	.166	121.8	SI
	278.	278.	3.	1.	107208.	-.027	.057	372922.	-.35	1.754	3.	.166	3.478	SI
	512.	512.	3.	1.	710.	0.	0.	372922.	-.35	1.754	3.	.166	525.3	SI
	522.	522.	3.	1.	-113382.	-.029	.06	-372922.	-.35	1.754	3.	.166	3.289	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
>	0.	0.	3.	1.	3147.	20252.	20251.	1.01	5.
	0.	0.	3.	1.	3147.	20252.	20251.	1.01	5.
	74.	74.	3.	1.	4011.	14451.	11454.	1.01	17.
	522.	522.	3.	1.	3147.	20252.	20251.	1.01	5.
	522.	522.	3.	1.	188.	3147.	20252.	20251.	1.01

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
>	10.	10.	3.	1.	-66877.	-23.8	744.1	4.62	5.96	.0213	17.03
	278.	278.	3.	1.	80197.	-28.5	892.3	4.62	5.96	.0255	17.03
	522.	522.	3.	1.	-82700.	-29.4	920.2	4.62	5.96	.0263	17.03

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
>	10.	10.	3.	1.	-64102.	-22.8	713.2	4.62	5.96	.0204	17.03
	278.	278.	3.	1.	77259.	-27.5	859.6	4.62	5.96	.0246	17.03
	522.	522.	3.	1.	-79859.	-28.4	888.6	4.62	5.96	.0254	17.03

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
>	10.	10.	3.	1.	-63214.	-22.5	703.3	4.62	5.96	.0201	17.03
	278.	278.	3.	1.	76276.	-27.1	848.7	4.62	5.96	.0242	17.03
	522.	522.	3.	1.	-78888.	-28.1	877.8	4.62	5.96	.0251	17.03

ARMATURE LONGITUDINALI (%=100*Af/Acl_s - Acl_s=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	9.24	1.232	4.62	.616	3d14	4.62	.616	3d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 45 - Travata T118 (trave)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN/cm; daN/cm²; deform. %.
 Unità particolari : fessure [wk]:mm - ferri:mm e cm² - sezioni:cm e derivate.
 Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
 gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecu= .35%
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS : σc (rara)=149.4; σc (quasi permanente)=112. ; fbd(esercizio)= 26.9
 ACCIAIO : σf (rara)=3600.; Coeff.Omogein.= 15
 FESSURE : w_{dmax}(fre.)=.4 ; w_{dmax}(q.p.)=.3 [4.1.2.2.4.5];
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: 30X75; A=2250.; Jg=1054688.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A336	3	3	3	0	223.	208.	2.967	.4	5.	32.185
2	A231	3	3	3	0	496.	466.	6.618	1.5	4.131	111.719
3	A230	3	3	3	0	337.	307.	4.492	1.5	5.	135.205
4	A330	3	3	3	0	153.	138.	2.039	.4	5.	32.185

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	

5. | SLU con SISMAY PRINC16 |

RARE				FREQUENTI				QUASI PERMANENTI			
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10. Rara		1.	11. Frequente		1.	12. Quasi Perm		1.			

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 16.	16.	3. 1.	-3945.	0.	0.	-2416101.	-.35	5.287	3.	.062	612.4	SI
16.	16.	3. 1.	57547.	-.002	.005	2416101.	-.35	5.287	3.	.062	41.99	SI
154.	154.	3. 1.	-677803.	-.02	.06	-2416101.	-.35	5.287	3.	.062	3.565	SI
175.	175.	3. 2.	-859981.	-.02	.039	-4482852.	-.35	2.188	3.	.138	5.213	SI
190.	190.	3. 2.	-927847.	-.022	.042	-4482852.	-.35	2.188	3.	.138	4.831	SI
223.	223.	3. 3.	-927847.	-.019	.041	-4738441.	-.35	4.461	3.	.073	5.107	SI
> 223.	0.	3. 3.	-891588.	-.018	.04	-4738441.	-.35	4.461	3.	.073	5.315	SI
223.	0.	3. 3.	56789.	-.001	.003	4738441.	-.35	4.461	3.	.073	83.44	SI
255.	32.	3. 2.	-891588.	-.021	.041	-4482852.	-.35	2.188	3.	.138	5.028	SI
255.	32.	3. 2.	173678.	-.004	.015	2468152.	-.35	6.432	3.	.052	14.21	SI
493.	271.	3. 1.	584806.	-.017	.052	2416101.	-.35	5.287	3.	.062	4.131	SI
719.	496.	3. 3.	-573153.	-.011	.026	-4738441.	-.35	4.461	3.	.073	8.267	SI
719.	496.	3. 3.	36644.	-.001	.002	4738441.	-.35	4.461	3.	.073	129.3	SI
> 719.	0.	3. 3.	-547439.	-.011	.024	-4738441.	-.35	4.461	3.	.073	8.656	SI
719.	0.	3. 3.	61741.	-.001	.003	4738441.	-.35	4.461	3.	.073	76.75	SI
751.	32.	3. 2.	-547439.	-.013	.025	-4482852.	-.35	2.188	3.	.138	8.189	SI
751.	32.	3. 2.	110796.	-.003	.01	2468152.	-.35	6.432	3.	.052	22.28	SI
927.	208.	3. 1.	231290.	-.007	.02	2416101.	-.35	5.287	3.	.062	10.45	SI
1056.	337.	3. 3.	-311006.	-.006	.014	-4738441.	-.35	4.461	3.	.073	15.24	SI
1056.	337.	3. 3.	181811.	-.004	.008	4738441.	-.35	4.461	3.	.073	26.06	SI
> 1056.	0.	3. 3.	-519333.	-.01	.023	-4738441.	-.35	4.461	3.	.073	9.124	SI
1088.	32.	3. 2.	-519333.	-.012	.024	-4482852.	-.35	2.188	3.	.138	8.632	SI
1140.	84.	3. 1.	-268630.	-.008	.024	-2416101.	-.35	5.287	3.	.062	8.994	SI
1140.	84.	3. 1.	20538.	-.001	.002	2416101.	-.35	5.287	3.	.062	117.6	SI
1176.	120.	3. 1.	40392.	-.001	.004	2416101.	-.35	5.287	3.	.062	59.82	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve	
> 0.	0.	3.	603.	7119.	47293.	42485.	1.01	15.	2.5	SI
223.	223.	3.	-9001.	8315.	47293.	42485.	1.01	15.	2.5	SI
> 223.	0.	3.	-11727.	7119.	51666.	50982.	1.01	11.	2.2	SI
223.	0.	3.	20191.	7119.	51666.	50982.	1.01	11.	2.2	SI
313.	90.	3.	-13255.	8315.	51666.	50982.	1.01	11.	2.2	SI
719.	496.	3.	-20302.	7119.	51666.	50982.	1.01	11.	2.2	SI
719.	496.	3.	11616.	7119.	51666.	50982.	1.01	11.	2.2	SI
> 719.	0.	3.	-20953.	7119.	51666.	50982.	1.01	11.	2.2	SI
719.	0.	3.	26274.	7119.	51666.	50982.	1.01	11.	2.2	SI
809.	90.	3.	-22107.	8315.	51666.	50982.	1.01	11.	2.2	SI
1056.	337.	3.	-25328.	7119.	51666.	50982.	1.01	11.	2.2	SI
1056.	337.	3.	21471.	7119.	51666.	50982.	1.01	11.	2.2	SI
> 1056.	0.	3.	6453.	8315.	47293.	42485.	1.01	15.	2.5	SI
1209.	153.	3.	-679.	7119.	47293.	42485.	1.01	15.	2.5	SI
1209.	153.	3.	344.	7119.	47293.	42485.	1.01	15.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 16.	16.	3. 1.	27013.	-1.1	50.3	8.04	7.5	.0014	15.09	.002	SI
32.	32.	3. 1.	20516.	-.8	38.2	8.04	7.5	.0011	15.09	.002	SI
32.	32.	3. 1.	20516.	-.8	38.2	8.04	7.5	.0011	15.09	.002	SI
54.	54.	3. 1.	-1774.	-.1	3.3	8.04	7.5	.0001	15.09	0.	SI
154.	154.	3. 1.	-308238.	-12.7	573.9	8.04	7.5	.0164	15.09	.025	SI
223.	223.	3. 3.	-650599.	-18.5	611.4	16.08	7.5	.019	11.28	.021	SI
> 223.	0.	3. 3.	-624555.	-17.7	586.9	16.08	7.5	.0179	11.28	.02	SI
493.	271.	3. 1.	408574.	-16.8	760.7	8.04	7.5	.0217	15.09	.033	SI
719.	496.	3. 3.	-404757.	-11.5	380.4	16.08	7.5	.0109	11.28	.012	SI
> 719.	0.	3. 3.	-386335.	-11.	363.	16.08	7.5	.0104	11.28	.012	SI
887.	168.	3. 1.	159333.	-6.6	296.6	8.04	7.5	.0085	15.09	.013	SI
1056.	337.	3. 3.	-211922.	-6.	199.1	16.08	7.5	.0057	11.28	.006	SI
> 1056.	0.	3. 3.	-363420.	-10.3	341.5	16.08	7.5	.0098	11.28	.011	SI
1192.	137.	3. 1.	-23545.	-1.	43.8	8.04	7.5	.0013	15.09	.002	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 16.	16.	3. 1.	28897.	-1.2	53.8	8.04	7.5	.0015	15.09	.002	SI
32.	32.	3. 1.	25404.	-1.	47.3	8.04	7.5	.0014	15.09	.002	SI
32.	32.	3. 1.	25404.	-1.	47.3	8.04	7.5	.0014	15.09	.002	SI
54.	54.	3. 1.	10113.	-.4	18.8	8.04	7.5	.0005	15.09	.001	SI
154.	154.	3. 1.	-218463.	-9.	406.7	8.04	7.5	.0116	15.09	.018	SI
223.	223.	3. 3.	-478400.	-13.6	449.6	16.08	7.5	.0128	11.28	.014	SI
> 223.	0.	3. 3.	-457273.	-13.	429.7	16.08	7.5	.0123	11.28	.014	SI
493.	271.	3. 1.	306660.	-12.6	570.9	8.04	7.5	.0163	15.09	.025	SI
719.	496.	3. 3.	-315358.	-9.	296.3	16.08	7.5	.0085	11.28	.01	SI
> 719.	0.	3. 3.	-300297.	-8.5	282.2	16.08	7.5	.0081	11.28	.009	SI
887.	168.	3. 1.	113051.	-4.7	210.5	8.04	7.5	.006	15.09	.009	SI

1056.	337.	3.	3.	-133248.	-3.8	125.2	16.08	7.5	.0036	11.28	.004	SI
>1056.	0.	3.	3.	-270997.	-7.7	254.7	16.08	7.5	.0073	11.28	.008	SI
1192.	137.	3.	1.	-16231.	-7.	30.2	8.04	7.5	.0009	15.09	.001	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Vel	
> 16.	16.	3.	1.	29340.	-1.2	54.6	8.04	7.5	.0016	15.09	.002	SI
32.	32.	3.	1.	26573.	-1.1	49.5	8.04	7.5	.0014	15.09	.002	SI
32.	32.	3.	1.	26573.	-1.1	49.5	8.04	7.5	.0014	15.09	.002	SI
54.	54.	3.	1.	13027.	-.5	24.3	8.04	7.5	.0007	15.09	.001	SI
154.	154.	3.	1.	-195698.	-8.1	364.3	8.04	7.5	.0104	15.09	.016	SI
223.	223.	3.	3.	-434494.	-12.3	408.3	16.08	7.5	.0117	11.28	.013	SI
> 223.	0.	3.	3.	-414644.	-11.8	389.6	16.08	7.5	.0111	11.28	.013	SI
493.	271.	3.	1.	279345.	-11.5	520.1	8.04	7.5	.0149	15.09	.022	SI
719.	496.	3.	3.	-292316.	-8.3	274.7	16.08	7.5	.0078	11.28	.009	SI
> 719.	0.	3.	3.	-278091.	-7.9	261.3	16.08	7.5	.0075	11.28	.008	SI
887.	168.	3.	1.	102772.	-4.2	191.3	8.04	7.5	.0055	15.09	.008	SI
1056.	337.	3.	3.	-113779.	-3.2	106.9	16.08	7.5	.0031	11.28	.003	SI
>1056.	0.	3.	3.	-247291.	-7.	232.4	16.08	7.5	.0066	11.28	.007	SI
1192.	137.	3.	1.	-14361.	-.6	26.7	8.04	7.5	.0008	15.09	.001	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	16.08	.715	8.04	.357	4d16	8.04	.357	4d16
2	24.13	1.072	16.08	.715	4d16 +4d16	8.04	.357	4d16
3	32.17	1.43	16.08	.715	4d16 +4d16	16.08	.715	4d16 +4d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 46 - Travata T119 (trave)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
 gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Eud=.35%
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS : σ_c (rara)=149.4; σ_c (quasi permanente)=112. ; fbd(esercizio)= 26.9
 ACCIAIO : σ_f (rara)=3600.; Coeff.Omogein.= 15
 FESSURE : wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: 30x25; A=750.; Jg=39062.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Inc.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A232	3	3	3	0	373.	338.	14.93	1.	2.513	39.179

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	
5.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epscl	Epsac	Mrd	Epscl	Epsac	Cam	x/d	Mr/Ms	VE	
> 0.	0.	3.	1.	-193134.	-.051	.103	-372922.	-.35	1.754	3.	.166	1.931	SI
0.	0.	3.	1.	75806.	-.019	.04	372922.	-.35	1.754	3.	.166	4.919	SI
173.	173.	3.	1.	-1949.	0.	.001	-372922.	-.35	1.754	3.	.166	191.3	SI
205.	205.	3.	1.	148413.	-.038	.079	372922.	-.35	1.754	3.	.166	2.513	SI
373.	373.	3.	1.	-115902.	-.03	.062	-372922.	-.35	1.754	3.	.166	3.218	SI
373.	373.	3.	1.	87921.	-.022	.047	372922.	-.35	1.754	3.	.166	4.242	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-1608.	3147.	20252.	20251.	1.01	5.	1.3
0.	0.	3.	3079.	3147.	20252.	20251.	1.01	5.	1.3
45.	45.	3.	-1672.	4011.	20252.	20251.	1.01	5.	1.3
373.	373.	3.	-2364.	3147.	20252.	20251.	1.01	5.	1.3
373.	373.	3.	1435.	3147.	20252.	20251.	1.01	5.	1.3

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	1.	-133957.	-47.7	1490.5	4.62	5.96	.0489	17.03	.083
10.	10.	3.	1.	-129356.	-46.	1439.3	4.62	5.96	.0464	17.03	.079
205.	205.	3.	1.	101514.	-36.1	1129.5	4.62	5.96	.0323	17.03	.055
373.	373.	3.	1.	-77587.	-27.6	863.3	4.62	5.96	.0247	17.03	.042

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	1.	-64054.	-22.8	712.7	4.62	5.96	.0204	17.03	.035
10.	10.	3.	1.	-62215.	-22.1	692.2	4.62	5.96	.0198	17.03	.034
205.	205.	3.	1.	38128.	-13.6	424.2	4.62	5.96	.0121	17.03	.021
373.	373.	3.	1.	-33186.	-11.8	369.2	4.62	5.96	.0105	17.03	.018

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 0.	0.	3.	1.	-46448.	-16.5	516.8	4.62	5.96	.0148	17.03	.025
10.	10.	3.	1.	-45302.	-16.1	504.1	4.62	5.96	.0144	17.03	.025
205.	205.	3.	1.	22286.	-7.9	248.	4.62	5.96	.0071	17.03	.012
373.	373.	3.	1.	-19313.	-6.9	214.9	4.62	5.96	.0061	17.03	.01

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	9.24	1.232	4.62	.616	3d14	4.62	.616	3d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 47 - Travata T120 (trave)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN/cm; daN/cm²; deform. %.
 Unità particolari : fessure [wk]:mm - ferri:mm e cm² - sezioni:cm e derivate.
 Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck=300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
 gc=1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecud=.35%
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs=1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS : σc (rara)=149.4; σc (quasi permanente)=112. ; fbd(esercizio)= 26.9
 ACCIAIO : σf (rara)=3600.; Coeff.Omogein.= 15
 FESSURE : wdmax(fre.)=.4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: 30x50; A=1500.; Jg=312500.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A233	3	3	3	0	496.	461.	9.921	1.	2.112	36.495

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	
5.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	-451236.	-.03	.081	-1154648.	-.35	3.693	3.	.087	2.559	SI
0.	0.	3.	28733.	-.002	.005	1154648.	-.35	3.693	3.	.087	40.19	SI
246.	246.	3.	546625.	-.036	.098	1154648.	-.35	3.693	3.	.087	2.112	SI
496.	496.	3.	-451236.	-.03	.081	-1154648.	-.35	3.693	3.	.087	2.559	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-993.	5230.	33726.	33280.	1.01	11.	2.2
0.	0.	3.	7914.	5230.	33726.	33280.	1.01	11.	2.2
110.	110.	3.	-2598.	6194.	30872.	18909.	1.01	22.	2.5
496.	496.	3.	-7034.	5230.	33726.	33280.	1.01	11.	2.2
496.	496.	3.	1914.	5230.	33726.	33280.	1.01	11.	2.2

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3.	-250027.	-22.9	941.6	6.16	7.5	.0269	16.52	.044	SI
246.	246.	3.	389886.	-35.6	1468.3	6.16	7.5	.0489	16.52	.081	SI
496.	496.	3.	-321004.	-29.3	1208.9	6.16	7.5	.0365	16.52	.06	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3.	-165468.	-15.1	623.1	6.16	7.5	.0178	16.52	.029	SI
246.	246.	3.	266396.	-24.3	1003.2	6.16	7.5	.0287	16.52	.047	SI
496.	496.	3.	-213424.	-19.5	803.7	6.16	7.5	.023	16.52	.038	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
15.	15.	3.	-143729.	-13.1	541.3	6.16	7.5	.0155	16.52	.026	SI
246.	246.	3.	234519.	-21.4	883.2	6.16	7.5	.0252	16.52	.042	SI
496.	496.	3.	-185748.	-17.	699.5	6.16	7.5	.02	16.52	.033	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	12.32	.821	6.16	.411	4d14	6.16	.411	4d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 48 - Travata T121 (trave)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN/cm; daN/cm2; deform. %.
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
 gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Eud=.35%
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS : σc (rara)=149.4; σc (quasi permanente)=112. ; fbd(esercizio)= 26.9
 ACCIAIO : σf (rara)=3600. ; Coeff.Omoegin.= 15
 FESSURE : wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: 30x25; A=750.; Jg=39062.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A234	3	3	3	0	500.	470.	20.	1.	1.448	22.571

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
	SLU	

1. | SLU SENZA SISMA | 1. |
 4. | SLU con SISMAL PRINC16 |
 5. | SLU con SISMAL PRINC16 |

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 0.	0.	3.	1.	-231198.	-.061	.123	-372922.	-.35	1.754	3.	.166	1.613
0.	0.	3.	1.	82620.	-.021	.044	372922.	-.35	1.754	3.	.166	4.514
145.	145.	3.	1.	-5893.	-.001	.003	-372922.	-.35	1.754	3.	.166	63.28
250.	250.	3.	1.	257610.	-.068	.137	372922.	-.35	1.754	3.	.166	1.448
500.	500.	3.	1.	-266650.	-.071	.142	-372922.	-.35	1.754	3.	.166	1.399
500.	500.	3.	1.	80869.	-.021	.043	372922.	-.35	1.754	3.	.166	4.611

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	1.	-925.	3147.	20252.	20251.	1.01	5.
0.	0.	3.	1.	3536.	3147.	20252.	20251.	1.01	5.
75.	75.	3.	1.	-1038.	4011.	14451.	11454.	1.01	17.
500.	500.	3.	1.	-3466.	3147.	20252.	20251.	1.01	5.
500.	500.	3.	1.	897.	3147.	20252.	20251.	1.01	5.

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
10.	10.	3.	1.	-151099.	-53.8	1681.2	4.62	5.96	.058	17.03	.099
250.	250.	3.	1.	176196.	-62.7	1960.5	4.62	5.96	.0712	17.03	.121
500.	500.	3.	1.	-182541.	-64.9	2031.1	4.62	5.96	.0746	17.03	.127

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
10.	10.	3.	1.	-50387.	-17.9	560.6	4.62	5.96	.016	17.03	.027
250.	250.	3.	1.	62070.	-22.1	690.6	4.62	5.96	.0197	17.03	.034
500.	500.	3.	1.	-66868.	-23.8	744.	4.62	5.96	.0213	17.03	.036

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
10.	10.	3.	1.	-25230.	-9.	280.7	4.62	5.96	.008	17.03	.014
250.	250.	3.	1.	33540.	-11.9	373.2	4.62	5.96	.0107	17.03	.018
500.	500.	3.	1.	-37927.	-13.5	422.	4.62	5.96	.0121	17.03	.021

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	9.24	1.232	4.62	.616	3d14	4.62	.616	3d14

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 51 - Travata T124 (trave)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.
 Unità particolari : fessure [wk];mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
 gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecd=.35%
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS : σc (rara)=149.4; σc (quasi permanente)=112. ; fbd(esercizio)= 26.9
 ACCIAIO : σf (rara)=3600. ; Coeff.Omogein.= 15
 FESSURE : wdmax(fre.)=.4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: 30X75; A=2250.; Jg=1054688.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A331	3	3	3	0	156.	141.	2.082	.4	5.	32.185
2	A229	3	3	3	0	429.	399.	5.719	1.5	5.	135.205
3	A246	3	3	3	0	346.	311.	4.612	1.5	5.	135.205
4	A332	3	3	3	0	241.	221.	3.208	.4	5.	32.185

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	
5.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 16.	16.	3. 1.	-95821.	-.003	.008	-2416101.	-.35	5.287	3.	.062	25.22	SI
16.	16.	3. 1.	41747.	-.001	.004	2416101.	-.35	5.287	3.	.062	57.88	SI
58.	58.	3. 1.	20144.	-.001	.002	2416101.	-.35	5.287	3.	.062	119.9	SI
83.	83.	3. 1.	-262982.	-.008	.023	-2416101.	-.35	5.287	3.	.062	9.187	SI
109.	109.	3. 2.	-371854.	-.009	.017	-4482852.	-.35	2.188	3.	.138	12.06	SI
124.	124.	3. 2.	-408928.	-.01	.019	-4482852.	-.35	2.188	3.	.138	10.96	SI
156.	156.	3. 3.	-408928.	-.008	.018	-4738441.	-.35	4.461	3.	.073	11.59	SI
> 156.	0.	3. 3.	-541337.	-.011	.024	-4738441.	-.35	4.461	3.	.073	8.753	SI
156.	0.	3. 3.	154422.	-.003	.007	4738441.	-.35	4.461	3.	.073	30.69	SI
225.	69.	3. 2.	-377551.	-.009	.017	-4482852.	-.35	2.188	3.	.138	11.87	SI
225.	69.	3. 2.	244005.	-.006	.021	2468152.	-.35	6.432	3.	.052	10.12	SI
371.	214.	3. 1.	-27997.	-.001	.002	-2416101.	-.35	5.287	3.	.062	86.3	SI
371.	214.	3. 1.	345904.	-.01	.031	2416101.	-.35	5.287	3.	.062	6.985	SI
585.	429.	3. 3.	-470947.	-.009	.021	-4738441.	-.35	4.461	3.	.073	10.06	SI
585.	429.	3. 3.	135194.	-.003	.006	4738441.	-.35	4.461	3.	.073	35.05	SI
> 585.	0.	3. 3.	-466861.	-.009	.021	-4738441.	-.35	4.461	3.	.073	10.15	SI
585.	0.	3. 3.	120947.	-.002	.005	4738441.	-.35	4.461	3.	.073	39.18	SI
617.	32.	3. 2.	-466861.	-.011	.021	-4482852.	-.35	2.188	3.	.138	9.602	SI
617.	32.	3. 2.	156339.	-.004	.014	2468152.	-.35	6.432	3.	.052	15.79	SI
756.	170.	3. 1.	223159.	-.007	.02	2416101.	-.35	5.287	3.	.062	10.83	SI
796.	211.	3. 2.	-32466.	-.001	.001	-4482852.	-.35	2.188	3.	.138	138.1	SI
931.	346.	3. 3.	-222226.	-.004	.01	-4738441.	-.35	4.461	3.	.073	21.32	SI
931.	346.	3. 3.	144184.	-.003	.006	4738441.	-.35	4.461	3.	.073	32.86	SI
> 931.	0.	3. 3.	-281645.	-.006	.013	-4738441.	-.35	4.461	3.	.073	16.82	SI
931.	0.	3. 3.	17852.	0.	.001	4738441.	-.35	4.461	3.	.073	265.4	SI
983.	52.	3. 2.	-230767.	-.005	.011	-4482852.	-.35	2.188	3.	.138	19.43	SI
983.	52.	3. 2.	73151.	-.002	.006	2468152.	-.35	6.432	3.	.052	33.74	SI
1097.	166.	3. 1.	107217.	-.003	.009	2416101.	-.35	5.287	3.	.062	22.54	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-679.	7119.	47293.	42485.	1.01	15.	2.5
0.	0.	3.	344.	7119.	47293.	42485.	1.01	15.	2.5
156.	156.	3.	-4766.	8315.	47293.	42485.	1.01	15.	2.5
> 156.	0.	3.	-19533.	7119.	51666.	50982.	1.01	11.	2.2
156.	0.	3.	24087.	7119.	51666.	50982.	1.01	11.	2.2
246.	90.	3.	-20480.	8315.	51666.	50982.	1.01	11.	2.2
585.	429.	3.	-24569.	7119.	51666.	50982.	1.01	11.	2.2
585.	429.	3.	18672.	7119.	51666.	50982.	1.01	11.	2.2
> 585.	0.	3.	-21672.	7119.	51666.	50982.	1.01	11.	2.2
585.	0.	3.	29309.	7119.	51666.	50982.	1.01	11.	2.2
654.	69.	3.	-22350.	8315.	51666.	50982.	1.01	11.	2.2
931.	346.	3.	-25850.	7119.	51666.	50982.	1.01	11.	2.2
931.	346.	3.	24941.	7119.	51666.	50982.	1.01	11.	2.2
> 931.	0.	3.	4909.	7119.	47293.	42485.	1.01	15.	2.5
983.	52.	3.	3743.	8315.	47293.	42485.	1.01	15.	2.5
1172.	241.	3.	-2723.	7119.	47293.	42485.	1.01	15.	2.5

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 16.	16.	3. 1.	-28590.	-1.2	53.2	8.04	7.5	.0015	15.09	.002	SI
32.	32.	3. 1.	-39101.	-1.6	72.8	8.04	7.5	.0021	15.09	.003	SI
58.	58.	3. 1.	-66250.	-2.7	123.3	8.04	7.5	.0035	15.09	.005	SI
83.	83.	3. 1.	-109786.	-4.5	204.4	8.04	7.5	.0058	15.09	.009	SI
156.	156.	3. 3.	-289236.	-8.2	271.8	16.08	7.5	.0078	11.28	.009	SI
> 156.	0.	3. 3.	-380536.	-10.8	357.6	16.08	7.5	.0102	11.28	.012	SI
371.	214.	3. 1.	240449.	-9.9	447.7	8.04	7.5	.0128	15.09	.019	SI
585.	429.	3. 3.	-328069.	-9.3	308.3	16.08	7.5	.0088	11.28	.01	SI
> 585.	0.	3. 3.	-325855.	-9.3	306.2	16.08	7.5	.0087	11.28	.01	SI
756.	170.	3. 1.	155499.	-6.4	289.5	8.04	7.5	.0083	15.09	.012	SI

931.	346.	3.	3.	-153742.	-4.4	144.5	16.08	7.5	.0041	11.28	.005	SI
> 931.	0.	3.	3.	-195674.	-5.6	183.9	16.08	7.5	.0053	11.28	.006	SI
1097.	166.	3.	1.	75082.	-3.1	139.8	8.04	7.5	.004	15.09	.006	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 16.	16.	3.	1.	-28118.	-1.2	52.3	8.04	7.5	.0015	15.09	.002	SI
32.	32.	3.	1.	-37106.	-1.5	69.1	8.04	7.5	.002	15.09	.003	SI
58.	58.	3.	1.	-58803.	-2.4	109.5	8.04	7.5	.0031	15.09	.005	SI
83.	83.	3.	1.	-92207.	-3.8	171.7	8.04	7.5	.0049	15.09	.007	SI
156.	156.	3.	3.	-226590.	-6.4	212.9	16.08	7.5	.0061	11.28	.007	SI
> 156.	0.	3.	3.	-290880.	-8.3	273.3	16.08	7.5	.0078	11.28	.009	SI
371.	214.	3.	1.	165537.	-6.8	308.2	8.04	7.5	.0088	15.09	.013	SI
585.	429.	3.	3.	-236001.	-6.7	221.8	16.08	7.5	.0063	11.28	.007	SI
> 585.	0.	3.	3.	-235897.	-6.7	221.7	16.08	7.5	.0063	11.28	.007	SI
756.	170.	3.	1.	107205.	-4.4	199.6	8.04	7.5	.0057	15.09	.009	SI
931.	346.	3.	3.	-106035.	-3.	99.6	16.08	7.5	.0028	11.28	.003	SI
> 931.	0.	3.	3.	-141747.	-4.	133.2	16.08	7.5	.0038	11.28	.004	SI
1097.	166.	3.	1.	55015.	-2.3	102.4	8.04	7.5	.0029	15.09	.004	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 16.	16.	3.	1.	-27812.!	-1.1	51.8	8.04	7.5	.0015	15.09	.002	SI
32.	32.	3.	1.	-36392.!	-1.5	67.8	8.04	7.5	.0019	15.09	.003	SI
58.	58.	3.	1.	-56676.!	-2.3	105.5	8.04	7.5	.003	15.09	.005	SI
83.	83.	3.	1.	-87489.!	-3.6	162.9	8.04	7.5	.0047	15.09	.007	SI
156.	156.	3.	3.	-210410.!	-6.	197.7	16.08	7.5	.0056	11.28	.006	SI
> 156.	0.	3.	3.	-267857.!	-7.6	251.7	16.08	7.5	.0072	11.28	.008	SI
371.	214.	3.	1.	145785.!	-6.	271.4	8.04	7.5	.0078	15.09	.012	SI
585.	429.	3.	3.	-212792.!	-6.	200.	16.08	7.5	.0057	11.28	.006	SI
> 585.	0.	3.	3.	-213242.!	-6.1	200.4	16.08	7.5	.0057	11.28	.006	SI
756.	170.	3.	1.	95579.!	-3.9	177.9	8.04	7.5	.0051	15.09	.008	SI
931.	346.	3.	3.	-94108.!	-2.7	88.4	16.08	7.5	.0025	11.28	.003	SI
> 931.	0.	3.	3.	-128032.!	-3.6	120.3	16.08	7.5	.0034	11.28	.004	SI
1097.	166.	3.	1.	49949.!	-2.1	93.	8.04	7.5	.0027	15.09	.004	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	16.08	.715	8.04	.357	4d16	8.04	.357	4d16
2	24.13	1.072	16.08	.715	4d16 +4d16	8.04	.357	4d16
3	32.17	1.43	16.08	.715	4d16 +4d16	16.08	.715	4d16 +4d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 52 - Travata T125 (trave)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN/cm; daN/cm; daN/cm2; deform. %.
 Unità particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferrì (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
 gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecud=.35%
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS : σ_c (rara)=149.4; σ_c (quasi permanente)=112. ; fbd(esercizio)= 26.9
 ACCIAIO : σ_f (rara)=3600.; Coeff.Omogein.= 15
 FESSURE : wdmx(fre.)=.4 ; wdmx(q.p.)=.3 [4.1.2.2.4.5];
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: 30X75; A=2250.; Jg=1054688.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A339	3	3	3	0	222.	207.	2.967	.4	5.	32.185
2	A243	3	3	3	0	219.	184.	2.916	1.5	5.	135.205
3	A244	3	3	3	0	409.	374.	5.458	1.5	5.	135.205
4	A245	3	3	3	0	217.	187.	2.892	1.5	5.	135.205
5	A333	3	3	3	0	108.	93.	1.435	.4	5.	36.055

CASI DI CARICO DA MODELLO 3D

SLU

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	
5.	SLU con SISMAX PRINC16	

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10.	Rara	1.	11.	Frequente	1.	12.	Quasi Perm	1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 16.	16.	3. 1.	67708.	-.002	.006	2416101.	-.35	5.287	3.	.062	35.68	SI
104.	104.	3. 1.	13806.	0.	.001	2416101.	-.35	5.287	3.	.062	175.	SI
132.	132.	3. 1.	-490533.	-.014	.043	-2416101.	-.35	5.287	3.	.062	4.925	SI
154.	154.	3. 2.	-647576.	-.015	.03	-4482852.	-.35	2.188	3.	.138	6.923	SI
190.	190.	3. 2.	-895771.	-.021	.041	-4482852.	-.35	2.188	3.	.138	5.004	SI
222.	222.	3. 3.	-895771.	-.018	.04	-4738441.	-.35	4.461	3.	.073	5.29	SI
> 222.	0.	3. 3.	-865045.	-.017	.039	-4738441.	-.35	4.461	3.	.073	5.478	SI
222.	0.	3. 3.	96861.	-.002	.004	4738441.	-.35	4.461	3.	.073	48.92	SI
291.	69.	3. 2.	-716293.	-.017	.033	-4482852.	-.35	2.188	3.	.138	6.258	SI
291.	69.	3. 2.	105484.	-.003	.009	2468152.	-.35	6.432	3.	.052	23.4	SI
346.	124.	3. 1.	-503729.	-.015	.045	-2416101.	-.35	5.287	3.	.062	4.796	SI
441.	219.	3. 3.	-387499.	-.008	.017	-4738441.	-.35	4.461	3.	.073	12.23	SI
441.	219.	3. 3.	59077.	-.001	.003	4738441.	-.35	4.461	3.	.073	80.21	SI
> 441.	0.	3. 3.	-334874.	-.007	.015	-4738441.	-.35	4.461	3.	.073	14.15	SI
441.	0.	3. 3.	31520.	-.001	.001	4738441.	-.35	4.461	3.	.073	150.3	SI
494.	52.	3. 2.	-233508.	-.005	.011	-4482852.	-.35	2.188	3.	.138	19.2	SI
494.	52.	3. 2.	162346.	-.004	.014	2468152.	-.35	6.432	3.	.052	15.2	SI
671.	230.	3. 1.	371994.	-.011	.033	2416101.	-.35	5.287	3.	.062	6.495	SI
851.	409.	3. 3.	-334874.	-.007	.015	-4738441.	-.35	4.461	3.	.073	14.15	SI
851.	409.	3. 3.	18823.	0.	.001	4738441.	-.35	4.461	3.	.073	251.7	SI
> 851.	0.	3. 3.	-237214.	-.005	.011	-4738441.	-.35	4.461	3.	.073	19.98	SI
851.	0.	3. 3.	59975.	-.001	.003	4738441.	-.35	4.461	3.	.073	79.01	SI
898.	47.	3. 2.	-217304.	-.005	.01	-4482852.	-.35	2.188	3.	.138	20.63	SI
898.	47.	3. 2.	93704.	-.002	.008	2468152.	-.35	6.432	3.	.052	26.34	SI
977.	127.	3. 1.	111157.	-.003	.01	2416101.	-.35	5.287	3.	.062	21.74	SI
1067.	217.	3. 1.	-420233.	-.012	.037	-2416101.	-.35	5.287	3.	.062	5.749	SI
1067.	217.	3. 1.	88145.	-.003	.008	2416101.	-.35	5.287	3.	.062	27.41	SI
>1067.	0.	3. 1.	-431348.	-.013	.038	-2416101.	-.35	5.287	3.	.062	5.601	SI
1115.	47.	3. 1.	6981.	0.	.001	2416101.	-.35	5.287	3.	.062	346.1	SI
1143.	75.	3. 1.	65246.	-.002	.006	2416101.	-.35	5.287	3.	.062	37.03	SI

TAGLIO:

Progressive	Se	Ar	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-19.	7119.	47293.	42485.	1.01	15.	2.5	SI
0.	0.	3.	616.	7119.	47293.	42485.	1.01	15.	2.5	SI
222.	222.	3.	-8937.	8315.	47293.	42485.	1.01	15.	2.5	SI
> 222.	0.	3.	-36593.	7119.	51666.	50982.	1.01	11.	2.2	SI
222.	0.	3.	34566.	7119.	51666.	50982.	1.01	11.	2.2	SI
312.	90.	3.	-37622.	8315.	51666.	50982.	1.01	11.	2.2	SI
441.	219.	3.	-39321.	7119.	51666.	50982.	1.01	11.	2.2	SI
441.	219.	3.	31306.	7119.	51666.	50982.	1.01	11.	2.2	SI
> 441.	0.	3.	-19503.	7119.	51666.	50982.	1.01	11.	2.2	SI
441.	0.	3.	25000.	7119.	51666.	50982.	1.01	11.	2.2	SI
515.	74.	3.	-20464.	8315.	51666.	50982.	1.01	11.	2.2	SI
851.	409.	3.	-25501.	7119.	51666.	50982.	1.01	11.	2.2	SI
851.	409.	3.	19002.	7119.	51666.	50982.	1.01	11.	2.2	SI
> 851.	0.	3.	-32119.	7119.	51666.	50982.	1.01	11.	2.2	SI
851.	0.	3.	38499.	7119.	51666.	50982.	1.01	11.	2.2	SI
1067.	217.	3.	-35472.	8315.	51666.	50982.	1.01	11.	2.2	SI
1067.	217.	3.	34608.	8315.	51666.	50982.	1.01	11.	2.2	SI
>1067.	0.	3.	6143.	8315.	47293.	42485.	1.01	15.	2.5	SI
1175.	108.	3.	2811.	7119.	47293.	42485.	1.01	15.	2.5	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 16.	16.	3. 1.	40280.	-1.7	75.	8.04	7.5	.0021	15.09	.003	SI
32.	32.	3. 1.	34342.	-1.4	63.9	8.04	7.5	.0018	15.09	.003	SI
222.	222.	3. 3.	-630476.	-17.9	592.5	16.08	7.5	.0181	11.28	.02	SI
> 222.	0.	3. 3.	-608694.	-17.3	572.	16.08	7.5	.0172	11.28	.019	SI
346.	124.	3. 1.	-300083.	-12.4	558.7	8.04	7.5	.016	15.09	.024	SI
346.	124.	3. 1.	69241.	-2.9	128.9	8.04	7.5	.0037	15.09	.006	SI
441.	219.	3. 3.	-272547.	-7.7	256.1	16.08	7.5	.0073	11.28	.008	SI
> 441.	0.	3. 3.	-232953.	-6.6	218.9	16.08	7.5	.0063	11.28	.007	SI
626.	185.	3. 1.	259615.	-10.7	483.3	8.04	7.5	.0138	15.09	.021	SI
851.	409.	3. 3.	-232953.	-6.6	218.9	16.08	7.5	.0063	11.28	.007	SI
> 851.	0.	3. 3.	-165262.	-4.7	155.3	16.08	7.5	.0044	11.28	.005	SI
959.	108.	3. 1.	78430.	-3.2	146.	8.04	7.5	.0042	15.09	.006	SI
1067.	217.	3. 1.	-294280.	-12.1	547.9	8.04	7.5	.0157	15.09	.024	SI
>1067.	0.	3. 1.	-301624.	-12.4	561.6	8.04	7.5	.016	15.09	.024	SI
1159.	91.	3. 1.	-14439.	-6	26.9	8.04	7.5	.0008	15.09	.001	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 16.	16.	3. 1.	37037.!	-1.5!	69.	8.04	7.5	.002	15.09	.003	SI
32.	32.	3. 1.	33126.!	-1.4!	61.7	8.04	7.5	.0018	15.09	.003	SI
222.	222.	3. 3.	-475385.!	-13.5!	446.7!	16.08	7.5	.0128	11.28	.014	SI
> 222.	0.	3. 3.	-457284.!	-13.!	429.7!	16.08	7.5	.0123	11.28	.014	SI
346.	124.	3. 1.	-228365.!	-9.4!	425.2!	8.04	7.5	.0121	15.09	.018	SI
346.	124.	3. 1.	50913.!	-2.1!	94.8	8.04	7.5	.0027	15.09	.004	SI
441.	219.	3. 3.	-203007.!	-5.8!	190.8!	16.08	7.5	.0055	11.28	.006	SI
> 441.	0.	3. 3.	-166383.!	-4.7!	156.4!	16.08	7.5	.0045	11.28	.005	SI
626.	185.	3. 1.	193121.!	-8.!	359.5!	8.04	7.5	.0103	15.09	.016	SI
851.	409.	3. 3.	-166383.!	-4.7!	156.4!	16.08	7.5	.0045	11.28	.005	SI
> 851.	0.	3. 3.	-117110.!	-3.3!	110.1!	16.08	7.5	.0031	11.28	.004	SI
959.	108.	3. 1.	59535.!	-2.5!	110.8!	8.04	7.5	.0032	15.09	.005	SI
1067.	217.	3. 1.	-216639.!	-8.9!	403.3!	8.04	7.5	.0115	15.09	.017	SI
>1067.	0.	3. 1.	-221021.!	-9.1!	411.5!	8.04	7.5	.0118	15.09	.018	SI
1159.	91.	3. 1.	-11796.!	-.5!	22.	8.04	7.5	.0006	15.09	.001	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 16.	16.	3. 1.	36197.!	-1.5!	67.4!	8.04	7.5	.0019	15.09	.003	SI
32.	32.	3. 1.	32775.!	-1.4!	61.	8.04	7.5	.0017	15.09	.003	SI
222.	222.	3. 3.	-435676.!	-12.4!	409.4!	16.08	7.5	.0117	11.28	.013	SI
> 222.	0.	3. 3.	-418453.!	-11.9!	393.2!	16.08	7.5	.0112	11.28	.013	SI
346.	124.	3. 1.	-209897.!	-8.7!	390.8!	8.04	7.5	.0112	15.09	.017	SI
346.	124.	3. 1.	45248.!	-1.9!	84.2!	8.04	7.5	.0024	15.09	.004	SI
441.	219.	3. 3.	-185283.!	-5.3!	174.1!	16.08	7.5	.005	11.28	.006	SI
> 441.	0.	3. 3.	-149610.!	-4.3!	140.6!	16.08	7.5	.004	11.28	.005	SI
626.	185.	3. 1.	176210.!	-7.3!	328.1!	8.04	7.5	.0094	15.09	.014	SI
851.	409.	3. 3.	-149610.!	-4.3!	140.6!	16.08	7.5	.004	11.28	.005	SI
> 851.	0.	3. 3.	-104954.!	-3.!	98.6!	16.08	7.5	.0028	11.28	.003	SI
959.	108.	3. 1.	53041.!	-2.2!	98.7!	8.04	7.5	.0028	15.09	.004	SI
1067.	217.	3. 1.	-197021.!	-8.1!	366.8!	8.04	7.5	.0105	15.09	.016	SI
>1067.	0.	3. 1.	-200622.!	-8.3!	373.5!	8.04	7.5	.0107	15.09	.016	SI
1159.	91.	3. 1.	-11112.!	-.5!	20.7!	8.04	7.5	.0006	15.09	.001	SI

ARMATURE LONGITUDINALI (%=100*Af/Acl's - Acl's=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	16.08	.715	8.04	.357	4d16	8.04	.357	4d16
2	24.13	1.072	16.08	.715	4d16 +4d16	8.04	.357	4d16
3	32.17	1.43	16.08	.715	4d16 +4d16	16.08	.715	4d16 +4d16

VERIFICA TRAVATA IN CEMENTO ARMATO

Nome travata : 53 - Travata T126 (trave)
 Metodo di verifica : stati limite (NTC08).
 Duttilita' : bassa con gerarchia.
 Unità di misura : cm; daN/cm; daN/cm²; deform. %.
 Unità particolari : fessure [wk]:mm - ferri:mm e cm² - sezioni:cm e derivate.
 Copriferri (assi) : longitudinali= 3 ; staffe= 2

MATERIALI

CLS : Rck =300. ; fck=249. ; fctk= 17.9; fctm= 25.6; Ec= 314472. ;
 gc =1.5 ; fcd=141.1; fbd= 26.9; fctd= 11.9; Ecud=.35%
 ACCIAIO : B450C; ftk=5175. ; fyk=4500. ; Es=2100000. ;
 gs =1.15; fyd=3913. ; ftd(k*fyd)=4500. ; fud=4439.8; Eud=6.75%

TENSIONI E FESSURE MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS : σc (rara)=149.4; σc (quasi permanente)=112. ; fbd(esercizio)= 26.9
 ACCIAIO : σf (rara)=3600.; Coeff.Omogein= 15
 FESSURE : wdmax(fre.)=.4 ; wdmax(q.p.)=.3 [4.1.2.2.4.5];
 kt=.4 [EN 1992-1 7.3.4].

SEZIONI UTILIZZATE

3) Rettangolare: 30x75; A=2250.; Jg=1054688.; E=314471.6

DESCRIZIONE CAMPATE

Cam.	Descriz.	S.ini	Sez.	S.fin	Incl.	L.assi	L.net.	lambda	K	r.Ar.	lam.max
1	A337	3	3	3	0	225.	210.	3.005	.4	5.	32.185
2	A238	3	3	3	0	361.	321.	4.807	1.5	5.	135.205
3	A239	3	3	3	0	361.	316.	4.807	1.5	5.	135.205
4	A338	3	3	3	0	225.	205.	3.005	.4	5.	32.185

CASI DI CARICO DA MODELLO 3D

Nome	Descrizione	Sest
1.	SLU SENZA SISMA	1.
4.	SLU con SISMAX PRINC16	

5. | SLU con SISMAY PRINC16 |

RARE			FREQUENTI			QUASI PERMANENTI		
Nome	Descrizione	Sest	Nome	Descrizione	Sest	Nome	Descrizione	Sest
10. Rara		1.	11. Frequente		1.	12. Quasi Perm		1.

VERIFICHE ALLO STATO LIMITE ULTIMO

FLESSIONE:

Progressive	SE	Ar	Msd	Epsc	Epsac	Mrd	Epsc	Epsac	Cam	x/d	Mr/Ms	VE
> 16.	16.	3. 1.	-22000.	-.001	.002	-2416101.	-.35	5.287	3.	.062	109.8	SI
16.	16.	3. 1.	71349.	-.002	.006	2416101.	-.35	5.287	3.	.062	33.86	SI
105.	105.	3. 1.	2352.	0.	0.	2416101.	-.35	5.287	3.	.062	1027.	SI
157.	157.	3. 1.	-556837.	-.016	.049	-2416101.	-.35	5.287	3.	.062	4.339	SI
178.	178.	3. 2.	-696558.	-.016	.032	-4482852.	-.35	2.188	3.	.138	6.436	SI
193.	193.	3. 2.	-748228.	-.018	.034	-4482852.	-.35	2.188	3.	.138	5.991	SI
225.	225.	3. 3.	-748228.	-.015	.033	-4738441.	-.35	4.461	3.	.073	6.333	SI
> 225.	0.	3. 3.	-654176.	-.013	.029	-4738441.	-.35	4.461	3.	.073	7.243	SI
225.	0.	3. 3.	183156.	-.004	.008	4738441.	-.35	4.461	3.	.073	25.87	SI
258.	32.	3. 2.	-654176.	-.015	.03	-4482852.	-.35	2.188	3.	.138	6.853	SI
258.	32.	3. 2.	214855.	-.005	.019	2468152.	-.35	6.432	3.	.052	11.49	SI
358.	133.	3. 1.	242176.	-.007	.021	2416101.	-.35	5.287	3.	.062	9.977	SI
486.	261.	3. 2.	-143546.	-.003	.007	-4482852.	-.35	2.188	3.	.138	31.23	SI
586.	361.	3. 3.	-275240.	-.005	.012	-4738441.	-.35	4.461	3.	.073	17.22	SI
586.	361.	3. 3.	163590.	-.003	.007	4738441.	-.35	4.461	3.	.073	28.97	SI
> 586.	0.	3. 3.	-279419.	-.006	.012	-4738441.	-.35	4.461	3.	.073	16.96	SI
586.	0.	3. 3.	131808.	-.003	.006	4738441.	-.35	4.461	3.	.073	35.95	SI
643.	57.	3. 2.	-235635.	-.005	.011	-4482852.	-.35	2.188	3.	.138	19.03	SI
643.	57.	3. 2.	179649.	-.004	.016	2468152.	-.35	6.432	3.	.052	13.74	SI
727.	141.	3. 1.	-61600.	-.002	.005	-2416101.	-.35	5.287	3.	.062	39.22	SI
810.	224.	3. 1.	243717.	-.007	.022	2416101.	-.35	5.287	3.	.062	9.914	SI
894.	308.	3. 2.	-637719.	-.015	.029	-4482852.	-.35	2.188	3.	.138	7.03	SI
946.	361.	3. 3.	-696740.	-.014	.031	-4738441.	-.35	4.461	3.	.073	6.801	SI
946.	361.	3. 3.	192901.	-.004	.009	4738441.	-.35	4.461	3.	.073	24.56	SI
> 946.	0.	3. 3.	-754357.	-.015	.034	-4738441.	-.35	4.461	3.	.073	6.281	SI
979.	32.	3. 2.	-754357.	-.018	.034	-4482852.	-.35	2.188	3.	.138	5.943	SI
1020.	74.	3. 1.	-547666.	-.016	.049	-2416101.	-.35	5.287	3.	.062	4.412	SI
1069.	123.	3. 1.	4755.	0.	0.	2416101.	-.35	5.287	3.	.062	508.1	SI
1139.	193.	3. 1.	69793.	-.002	.006	2416101.	-.35	5.287	3.	.062	34.62	SI

TAGLIO:

Progressive	Se	Vsd	VRd	VRcd	VRsd	Asw	s	ctgT	Ve
> 0.	0.	3.	-603.	7119.	47293.	42485.	1.01	15.	2.5
225.	225.	3.	-6863.	8315.	47293.	42485.	1.01	15.	2.5
> 225.	0.	3.	-19663.	7119.	51666.	50982.	1.01	11.	2.2
225.	0.	3.	23955.	7119.	51666.	50982.	1.01	11.	2.2
315.	90.	3.	-20610.	8315.	51666.	50982.	1.01	11.	2.2
586.	361.	3.	-23710.	7119.	51666.	50982.	1.01	11.	2.2
586.	361.	3.	19403.	7119.	51666.	50982.	1.01	11.	2.2
> 586.	0.	3.	-20371.	7119.	51666.	50982.	1.01	11.	2.2
586.	0.	3.	25106.	7119.	51666.	50982.	1.01	11.	2.2
665.	79.	3.	-21049.	8315.	51666.	50982.	1.01	11.	2.2
946.	361.	3.	-24354.	7119.	51666.	50982.	1.01	11.	2.2
946.	361.	3.	20555.	7119.	51666.	50982.	1.01	11.	2.2
> 946.	0.	3.	6785.	8315.	47293.	42485.	1.01	15.	2.5
1172.	225.	3.	-22.	7119.	47293.	42485.	1.01	15.	2.5
1172.	225.	3.	631.	7119.	47293.	42485.	1.01	15.	2.5

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

TENSIONI DI ESERCIZIO E FESSURAZIONE - RARE:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 16.	16.	3. 1.	40502.	-1.7	75.4	8.04	7.5	.0022	15.09	.003	SI
32.	32.	3. 1.	28174.	-1.2	52.5	8.04	7.5	.0015	15.09	.002	SI
54.	54.	3. 1.	2546.	-.1	4.7	8.04	7.5	.0001	15.09	0.	SI
157.	157.	3. 1.	-260321.	-10.7	484.7	8.04	7.5	.0138	15.09	.021	SI
225.	225.	3. 3.	-522082.	-14.8	490.6	16.08	7.5	.014	11.28	.016	SI
> 225.	0.	3. 3.	-455267.	-12.9	427.8	16.08	7.5	.0122	11.28	.014	SI
401.	175.	3. 1.	169024.	-7.	314.7	8.04	7.5	.009	15.09	.014	SI
586.	361.	3. 3.	-188624.	-5.4	177.3	16.08	7.5	.0051	11.28	.006	SI
> 586.	0.	3. 3.	-197359.	-5.6	185.5	16.08	7.5	.0053	11.28	.006	SI
769.	183.	3. 1.	167792.	-6.9	312.4	8.04	7.5	.0089	15.09	.013	SI
946.	361.	3. 3.	-482763.	-13.7	453.7	16.08	7.5	.013	11.28	.015	SI
> 946.	0.	3. 3.	-523718.	-14.9	492.1	16.08	7.5	.0141	11.28	.016	SI
1020.	74.	3. 1.	-253204.	-10.4	471.4	8.04	7.5	.0135	15.09	.02	SI
1156.	209.	3. 1.	35314.	-1.5	65.7	8.04	7.5	.0019	15.09	.003	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - FREQUENTI:

Progressive	Se	Ar	Momento	σc	σf	As	hc,ef	Eps%	Sr,max	wd	Ve
> 16.	16.	3. 1.	29702.	-1.2	55.3	8.04	7.5	.0016	15.09	.002	SI
32.	32.	3. 1.	19142.	-.8	35.6	8.04	7.5	.001	15.09	.002	SI
54.	54.	3. 1.	-1308.	-.1	2.4	8.04	7.5	.0001	15.09	0.	SI
157.	157.	3. 1.	-197026.	-8.1	366.8	8.04	7.5	.0105	15.09	.016	SI
225.	225.	3. 3.	-386904.	-11.	363.6	16.08	7.5	.0104	11.28	.012	SI
> 225.	0.	3. 3.	-332163.	-9.4	312.1	16.08	7.5	.0089	11.28	.01	SI
401.	175.	3. 1.	115087.	-4.7	214.3	8.04	7.5	.0061	15.09	.009	SI

586.	361.	3.	3.	-140927.	-4.	132.4	16.08	7.5	.0038	11.28	.004	SI
> 586.	0.	3.	3.	-143503.	-4.1	134.9	16.08	7.5	.0039	11.28	.004	SI
769.	183.	3.	1.	116521.	-4.8	216.9	8.04	7.5	.0062	15.09	.009	SI
946.	361.	3.	3.	-334039.	-9.5	313.9	16.08	7.5	.009	11.28	.01	SI
> 946.	0.	3.	3.	-370638.	-10.5	348.3	16.08	7.5	.01	11.28	.011	SI
1020.	74.	3.	1.	-177408.	-7.3	330.3	8.04	7.5	.0094	15.09	.014	SI
1156.	209.	3.	1.	33647.	-1.4	62.6	8.04	7.5	.0018	15.09	.003	SI

TENSIONI DI ESERCIZIO E FESSURAZIONE - QUASI PERMANENTI:

Progressive	Se	Ar	Momento	σ_c	σ_f	As	hc,ef	Eps%	Sr,max	wd	Ve	
> 16.	16.	3.	1.	27023.	-1.1	50.3	8.04	7.5	.0014	15.09	.002	SI
32.	32.	3.	1.	16954.	-.7	31.6	8.04	7.5	.0009	15.09	.001	SI
54.	54.	3.	1.	-2134.	-.1	4.	8.04	7.5	.0001	15.09	0.	SI
157.	157.	3.	1.	-180723.	-7.5	336.5	8.04	7.5	.0096	15.09	.015	SI
225.	225.	3.	3.	-352409.	-10.	331.2	16.08	7.5	.0095	11.28	.011	SI
> 225.	0.	3.	3.	-300894.	-8.5	282.8	16.08	7.5	.0081	11.28	.009	SI
401.	175.	3.	1.	102319.	-4.2	190.5	8.04	7.5	.0054	15.09	.008	SI
586.	361.	3.	3.	-128870.	-3.7	121.1	16.08	7.5	.0035	11.28	.004	SI
> 586.	0.	3.	3.	-129880.	-3.7	122.1	16.08	7.5	.0035	11.28	.004	SI
769.	183.	3.	1.	102889.	-4.2	191.6	8.04	7.5	.0055	15.09	.008	SI
946.	361.	3.	3.	-296412.	-8.4	278.5	16.08	7.5	.008	11.28	.009	SI
> 946.	0.	3.	3.	-331808.	-9.4	311.8	16.08	7.5	.0089	11.28	.01	SI
1020.	74.	3.	1.	-158105.	-6.5	294.4	8.04	7.5	.0084	15.09	.013	SI
1156.	209.	3.	1.	33193.	-1.4	61.8	8.04	7.5	.0018	15.09	.003	SI

ARMATURE LONGITUDINALI (%=100*Af/AcIs - AcIs=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	16.08	.715	8.04	.357	4d16	8.04	.357	4d16
2	24.13	1.072	16.08	.715	4d16 +4d16	8.04	.357	4d16
3	32.17	1.43	16.08	.715	4d16 +4d16	16.08	.715	4d16 +4d16

ARMATURE LONGITUDINALI (%=100*Af/AcIs - AcIs=area intera sezione)

Nro	Totale	%	Super.	%	Barre	Infer.	%	Barre
1	9.24	1.232	4.62	.616	3d14	4.62	.616	3d14
2	18.47	2.463	9.24	1.232	3d14 +3d14	9.24	1.232	3d14 +3d14
3	13.85	1.847	9.24	1.232	3d14 +3d14	4.62	.616	3d14

VERIFICA PILASTRATE

Nel progetto vengono definite le seguenti tipologie di pilastrate:

- tipo A: pilastri che si elevano dal piano fondazione al solaio di sottotetto
- tipo B: pilastri che si elevano dal piano fondazione al solaio di sottotetto e fungono da supporto dell'orditura della copertura

Il dimensionamento e la verifica è stato eseguito suddividendo i pilastri oltre che secondo la tipologia anche in funzione di due fasce di sollecitazione al fine di uniformare le tipologie e quindi semplificarne la realizzazione in cantiere.

Poiché la struttura risulta simmetrica sono presi in considerazione solo gli elementi posti a sinistra dell'asse di simmetria.

COPRIFERRI

I copriferri, conformemente alla normativa sono stati determinati sulla base delle caratteristiche del sito di intervento, della tipologia dei materiali impiegati.

Dal punto di vista operativo i calcoli sono stati svolti con i seguenti copriferri teorici (riferiti alla staffe)

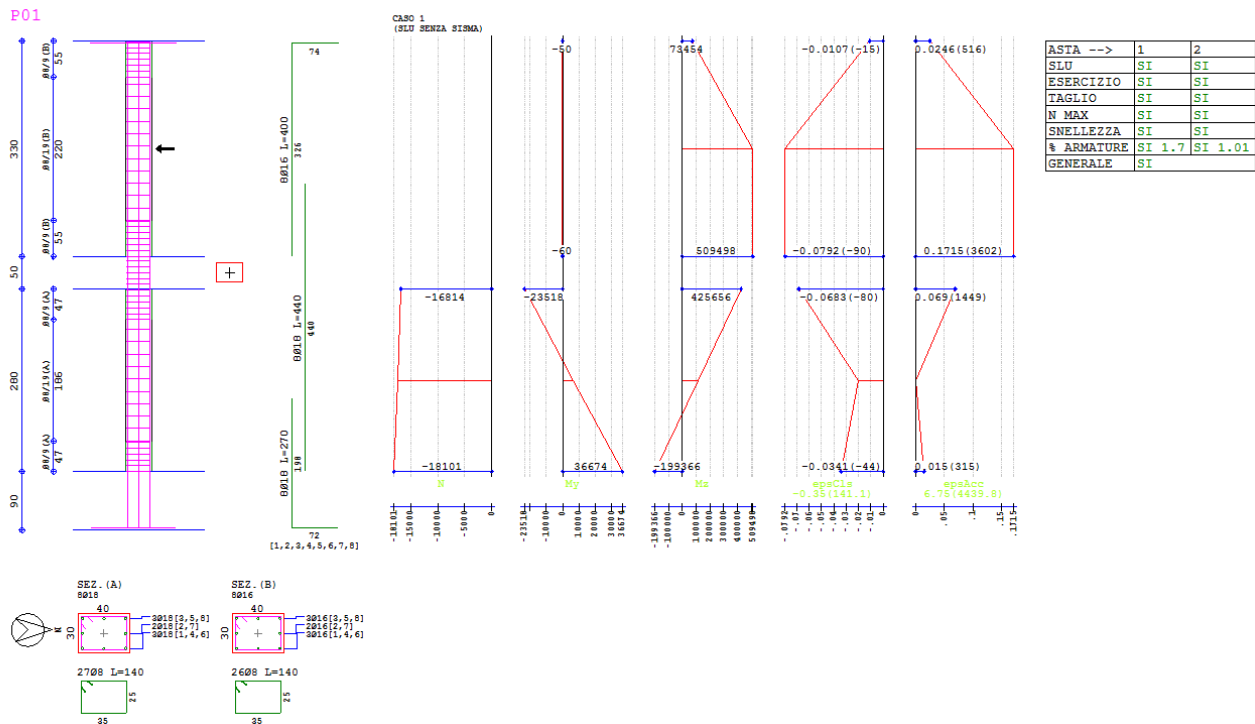
Opere di fondazione 4 cm

Pilastri 2.5 cm

Travi di solaio 3 cm

VERIFICA PILASTRI:

VERIFICA PILASTRO IN CEMENTO ARMATO



Nome pilastro : P01 (ID=2)
 Metodo di verifica : stati limite - NTC08 (q=2.52)
 Duttilità : bassa con gerarchia.
 Unita' di misura : cm; daN; daN/cm; daN/cm²; deform. %.
 Unita' particolari : fessure [wk]:mm - ferri:mm e cm² - sezioni:cm e derivate.
 Copriferri (assi) : longitudinali= 3.5 ; staffe= 2.5

MATERIALI

CLS : C25/30; Rck=300; fck=249; fctk=17.91; fctm=25.58; Ecm=314472;
gc=1.5; fcd=141.1; fbd=26.86; fctd=11.94; Ecu=0.35%
ACCIAIO: B450C; ftk=5175; fyk=4500; Es=2100000;
gs=1.15; fyd=3913; ftd=4500; fud=4439.8; Eud=6.75%

TENSIONI MASSIME IN ESERCIZIO

GRUPPO : ordinario.

CLS : σ_c (rara)=149.4; σ_c (quasi permanente)=112; fbd(esercizio)=26.86
ACCIAIO: σ_f (rara)=3600; Coeff.Omogetin.=15

SEZIONI UTILIZZATE

1) Rettangolare: base=40; alt.=30; Acl_s=1200; i_y=11.55; i_z=8.66

DESCRIZIONE ASTE E ARMATURA LONGITUDINALE

As	Se	ez	ey	Lassi	Lnet	Lcr.I	Lcr.S	Af	% arm	
1	1	2.	2.	330.	280.	47.	47.	20.36	1.696	8φ18
2	1	2.	2.	330.	330.	55.	55.	12.06	1.005	6φ16

CASI DI CARICO

Nome	Descrizione	Tipo	Ses
1	SLU SENZA SISMA	SLU (statico)	1
4	SLU con SISMAY PRINC	SLU (sismico)	16
5	SLU con SISMAY PRINC	SLU (sismico)	16
10	SLU GER SISMAY PRINC	SLU (sismico)	16
11	SLU GER SISMAY PRINC	SLU (sismico)	16
13	Rara	RARA	1
14	Frequente	FREQUENTE	1
15	Quasi Perm	QUASI PERMAN.	1

GERARCHIA DELLE RESISTENZE

MOMENTI ULTIMI MINIMI (CASI SISMICI):

Asta		caso	Myu- min	caso	Myu+ min	caso	Mzu- min	caso	Mzu+ min
1	inf	4- 3	-1257300.	4- 3	1257300.	5- 5	-994920.	5- 5	994920.
1	sup	4- 3	-1109445.	4- 3	1109445.	5- 5	-1028240.	5- 5	1028250.
2	inf	4- 1	-352710.	4- 1	352710.	5- 1	-597990.	5- 1	597990.
2	sup	4- 1	-774195.	4- 1	774195.	5- 1	-598000.	5- 1	598000.

TAGLI GERARCHIA:

Asta	Caso	VEyd-	Caso	VEyd+	Caso	VEzd-	Caso	VEzd+
1	4-12	-8417.9	4-12	8417.9	4-11	-11652.4	4-11	11652.4
2	4- 1	-3986.8	4- 1	3986.8	5- 1	-5022.5	5- 1	5022.5

VERIFICHE ALLO STATO LIMITE ULTIMO

PRESSO-FLESSIONE (incluse le imperfezioni):

Asta	Caso	NEd	MEyd	MEzd	E cl _s	σ_c	E acc	σ_f	VE
> 1	4- 2	-11491.	103339.1	-404493.1	-.072	-83.6	.083	1741.4	SI
1	1- 1	-17458.	6578.1	113145.1	-.02	-26.5	0.	4.6	SI
1	4- 2	-10501.	-62614.1	546260.1	-.089	-97.8	.116	2434.	SI
> 2	4- 1	0.	177.1	563916.1	-.111	-113.3	.325	3924.2	SI
2	4- 1	0.	177.1	563916.1	-.111	-113.3	.325	3924.2	SI
2	4- 1	0.	113.1	201556.1	-.03	-39.1	.068	1417.9	SI

SNELLEZZA LIMITE Y [EC2 5.8.3.1]:

Asta	Caso	NEd	MEyd inf	MEyd sup	l ₀	A	B	C	nu	L lim	Lambd	VE
1	1- 1	-18101.2	36673.7	-23517.6	330.	.7	1.39	2.34	.107	139.7	28.58	SI
2	1- 1	0.	-59.9	-50.3	330.	.7	1.25	.861	0.	999.	28.58	SI

SNELLEZZA LIMITE Z [EC2 5.8.3.1]:

Asta	Caso	NEd	MEzd inf	MEzd sup	l ₀	A	B	C	nu	L lim	Lambd	VE
1	4-11	-12025.8	93616.2	48542.2	330.	.7	1.39	1.18	.071	86.47	38.11	SI
2	1- 1	0.	509497.7	73453.7	330.	.7	1.25	1.56	0.	999.	38.11	SI

TAGLIO Y:

Asta	Caso	VEd	VEd ger.	VRd	VRsd	VRcd	Asw	s	ctgT	VE	
1	inf	4-12	-137.3	8417.9	25220.8	25540.3	25220.8	1.01	9.	2.45	SI
1	cen	4-12	-137.3	8417.9	12344.9	12344.9	24789.1	1.01	19.	2.5	SI
1	sup	4-12	-137.3	8417.9	25083.1	25540.3	25083.1	1.01	9.	2.45	SI
2	inf	1- 1	-6224.2	0.	24249.3	24497.9	24249.3	1.01	9.	2.35	SI
2	cen	1- 1	-6224.2	0.	12344.9	12344.9	23208.5	1.01	19.	2.5	SI
2	sup	1- 1	-4320.6	0.	24249.3	24497.9	24249.3	1.01	9.	2.35	SI

TAGLIO Z:

Asta	Caso	VEd	VEd ger.	VRd	VRsd	VRcd	Asw	s	ctgT	VE	
1	inf	4-11	-287.3	11652.4	29342.3	29434.8	29342.3	1.01	9.	2.05	SI
1	cen	4-11	-287.3	11652.4	17003.4	17003.4	25607.5	1.01	19.	2.5	SI
1	sup	4-11	-287.3	11652.4	29182.1	29434.8	29182.1	1.01	9.	2.05	SI
2	inf	5- 1	-1.6	5022.5	27999.	27999.	28230.7	1.01	9.	1.95	SI
2	cen	5- 1	-1.6	5022.5	17003.4	17003.4	23974.8	1.01	19.	2.5	SI
2	sup	5- 1	-1.6	5022.5	27999.	27999.	28230.7	1.01	9.	1.95	SI

NEd LIMITE (NEd < Nmax, Nmax=65% di Ncl_s; Ncl_s=fcd*Ac) [7.4.4.2.2.1]:

Asta	Caso	NEd	Nmax	Ncl _s	% Ncl _s	VE
1	4-14	-12084.7	-110058.	-169320.	7.14	SI
2	5- 1	0.	-110058.	-169320.	0.	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

RARE:

Asta	Caso	NEd	MEyd	MEzd	σ_c	σ_f	VE
1 inf	13- 1	-13332.3	25582.8	-146019.7	-33.5	218.3	SI
1 cen	13- 1	-12837.3	4576.7	82634.6	-19.7	.5	SI
1 sup	13- 1	-12342.3	-16429.3	311288.9	-64.2	1015.	SI
2 inf	13- 1	0.	-33.2	373081.	-75.8	2617.	SI
2 cen	13- 1	0.	-33.2	373081.	-75.8	2617.	SI
2 sup	13- 1	0.	-28.	55053.9	-11.2	386.3	SI

FREQUENTI:

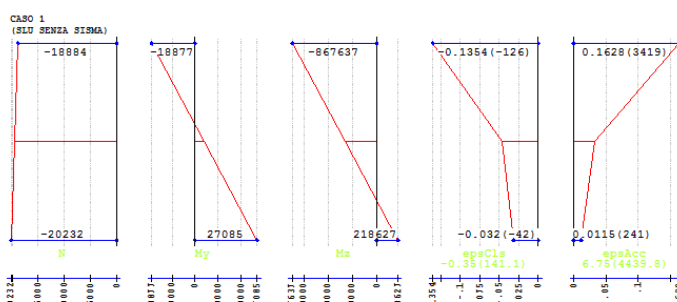
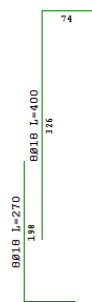
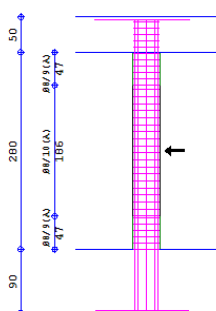
Asta	Caso	NEd	MEyd	MEzd	σ_c	σ_f	VE
1 inf	14- 1	-12172.2	20361.6	-131376.9	-29.9	186.7	SI
1 cen	14- 1	-11677.2	3637.2	73813.8	-17.7	-2.9	SI
1 sup	14- 1	-11182.2	-13087.1	279004.4	-57.3	901.2	SI
2 inf	14- 1	0.	-11.3	362096.8	-73.6	2539.9	SI
2 cen	14- 1	0.	-11.3	362096.8	-73.6	2539.9	SI
2 sup	14- 1	0.	-9.7	64933.5	-13.2	455.5	SI

QUASI PERMANENTI:

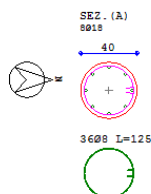
Asta	Caso	NEd	MEyd	MEzd	σ_c	σ_f	VE
1 inf	15- 1	-11787.3	18948.9	-126591.	-28.7	177.	SI
1 cen	15- 1	-11292.3	3384.	70948.3	-17.	-3.9	SI
1 sup	15- 1	-10797.3	-12180.9	268487.6	-55.1	864.8	SI
2 inf	15- 1	0.	-6.6	357250.5	-72.6	2505.9	SI
2 cen	15- 1	0.	-6.6	357250.5	-72.6	2505.9	SI
2 sup	15- 1	0.	-5.8	66936.	-13.6	469.5	SI

VERIFICA PILASTRO IN CEMENTO ARMATO

P02



ASTA -->	1
SLU	SI
ESERCIZIO	SI
TAGLIO	SI
N MAX	SI
SNELLEZZA	SI
ARMATURE	SI 1.62
GENERALE	SI



Nome pilastro : P02 (ID=3)
 Metodo di verifica : Stati limite - NTC08 (q=2.52)
 Duttilita' : bassa con gerarchia.
 Unita' di misura : cm; daN/cm; daN/cm2; deform. %.
 Unita' particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferri (assi) : longitudinale= 3.5 ; staffe= 2.5

MATERIALI

CLS : C25/30; Rck=300; fck=249; fctk=17.91; fctm=25.58; Ecm=314472;
 gc=1.5; fcd=141.1; fbd=26.86; fctd=11.94; Ecu=0.35%
 ACCIAIO: B450C; ftk=5175; fyk=4500; Es=2100000;
 gs=1.15; fyd=3913; ftd=4500; fud=4439.8; Eud=6.75%

TENSIONI MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS : σ_c (rara)=149.4; σ_c (quasi permanente)=112; fbd(esercizio)=26.86
 ACCIAIO: σ_f (rara)=3600; Coeff.Omogetin.=15

SEZIONI UTILIZZATE

1) Circolare: diametro=40; Acl_s=1254.85; i_y=9.99; i_z=9.99

DESCRIZIONE ASTE E ARMATURA LONGITUDINALE

As	Se	ez	ey	Lassi	Lnet	Lcr.I	Lcr.S	Af	% arm
1	1	2.	2.	330.	280.	47.	47.	20.36	1.622 8ø18

CASI DI CARICO

Nome	Descrizione	Tipo	Ses
1	SLU SENZA SISMA	SLU (statico)	1
4	SLU con SISMAY PRINC	SLU (sismico)	16
5	SLU con SISMAY PRINC	SLU (sismico)	16
10	SLU GER SISMAY PRINC	SLU (sismico)	16
11	SLU GER SISMAY PRINC	SLU (sismico)	16
13	Rara	RARA	1
14	Frequente	FREQUENTE	1
15	Quasi Perm	QUASI PERMAN.	1

GERARCHIA DELLE RESISTENZE

MOMENTI ULTIMI MINIMI (CASI SISMICI):

TABLE 1. MINIMUM CASES (CASES MINIMUM):																	
Asta		caso		Myu- min		caso		Myu+ min		caso		Mzu- min		caso		Mzu+ min	
1	inf	4-15	-1141905.	4-15	1141920.	5- 5	-1105290.	5- 5	1105290.	5- 5	-1152630.	5- 5	1152645.				
1	sup	4-13	-918360.	4-13	918345.	5- 5	-1152630.	5- 5	1152645.								

TAGLI GERARCHIA:

Asta	Caso	VEyd-	Caso	VEyd+	Caso	VEzd-	Caso	VEzd+
1	4-16	-9536.	4-16	9536.	4- 3	-9207.8	4- 3	9207.8

VERIFICHE ALLO STATO LIMITE ULTIMO

PRESSO-FLESSIONE (incluse le imperfezioni):

Asta	Caso	NEd	MEyd	MEzd	E c _{ls}	σ _c	E acc	σ _f	VE		
> 1	5- 5	-10733.	442791.	1.	75491.	1.	-.065	-76.4	.079	1656.9	SI
1	1- 1	-19558.	4104.	1.	-324505.	1.	-.047	-58.8	.032	680.6	SI
1	1- 1	-18884.	-37768.	2.	-867637.	1.	-.135	-126.4	.163	3419.	SI

SNELLEZZA LIMITE Y [EC2 5.8.3.1]:

Asta	Caso	Ned	MEyd inf	MEyd sup	10	A	B	C	nu	L lim	Lambd	VE
1	1- 1	-20231.8	27084.5	-18876.9	330.	.7	1.38	2.4	.114	136.8	33.02	SI

SNELLEZZA LIMITE Z [EC2 5.8.3.1]:

Asta	Caso	Ned	MEzd inf	MEzd sup	10	A	B	C	nu	L lim	Lambd	VE
1	1- 1	-20231.8	218626.8	-867637.	330.	.7	1.38	1.95	.114	111.4	33.02	SI

TAGLIO Y:

Asta	Caso	VEd	VEd ger.	VRd	VRsd	VRcd	Asw	s	ctgT	VE	
1	inf	4-12	-3206.1	-9532.7	25383.1	25840.5	25383.1	1.01	9.	2.3	SI
1	cen	4-16	-3473.3	9536.	24267.6	24267.6	24590.7	1.01	10.	2.4	SI
1	sup	4-16	-3473.3	9536.	25278.7	25278.7	25635.2	1.01	9.	2.25	SI

TAGLIO Z:

Asta	Caso	VEd	VEd ger.	VRd	VRsd	VRcd	Asw	s	ctgT	VE	
1	inf	4- 3	-550.9	9207.8	25278.7	25278.7	25648.2	1.01	9.	2.25	SI
1	cen	4- 3	-550.9	9207.8	24267.6	24267.6	24467.4	1.01	10.	2.4	SI
1	sup	4- 3	-550.9	9207.8	25278.7	25278.7	25506.3	1.01	9.	2.25	SI

NED LIMITE (NED < Nmax , Nmax=65% di Nc_{ls} ; Nc_{ls}=f_{cd}*Ac) [7.4.4.2.2.1]:

Asta	Caso	NED	Nmax	Nc _{ls}	% Nc _{ls}	VE
1	4-14	-11327.1	-115088.5	-177059.3	6.4	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

RARE:

Asta	Caso	NEd	MEyd	MEzd	σ_c	σ_f	VE	
1	inf	13- 1	-14411.7	19099.2	161392.5	-31.7	180.7	SI
1	cen	13- 1	-13893.3	2897.1	-238049.9	-46.3	499.7	SI
1	sup	13- 1	-13375.	-13305.	-637492.3	-123.7	2423.4	SI

FREQUENTI:

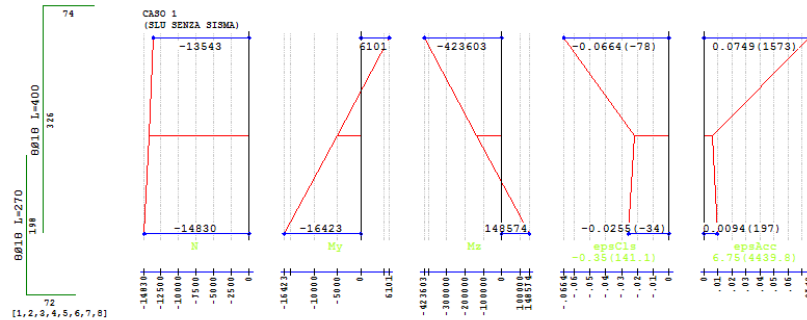
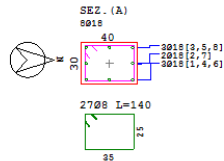
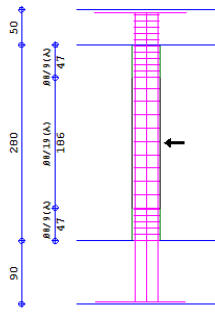
Asta	Caso	NEd	MEyd	MEzd	σ_c	σ_f	VE	
1	inf	14- 1	-11613.2	14356.8	149515.	-29.2	215.3	SI
1	cen	14- 1	-11094.8	2211.1	-215922.1	-42.	514.1	SI
1	sup	14- 1	-10576.5	-9934.6	-581359.1	-112.7	2293.1	SI

QUASI PERMANENTI:

Asta	Caso	NEd	MEyd	MEzd	σ_c	σ_f	VE	
1	inf	15- 1	-10849.9	13086.9	145059.3	-28.3	221.6	SI
1	cen	15- 1	-10331.6	2026.3	-208448.2	-40.5	512.2	SI
1	sup	15- 1	-9813.2	-9034.2	-561955.8	-108.9	2237.8	SI

VERIFICA PILASTRO IN CEMENTO ARMATO

P03



ASTA -->	1
SLU	SI
ESERCIZIO	SI
TAGLIO	SI
N MAX	SI
SNELLEZZA	SI
% ARMATURE	SI 1.7
GENERALE	SI

Nome pilastro : P03 (ID=4)
 Metodo di verifica : stati limite - NTC08 (q=2.52)
 Duttilita' : bassa con gerarchia.
 Unita' di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.
 Unita' particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
 Copriferri (assi) : longitudinali= 3.5 ; staffe= 2.5

MATERIALI

CLS : C25/30; Rck=300; fck=249; fctk=17.91; fctm=25.58; Ecm=314472;
 gc=1.5; fcd=141.1; fbd=26.86; fctd=11.94; Ecu=0.35%
 ACCIAIO: B450C; ftk=5175; fyk=4500; Es=2100000;
 gs=1.15; fyd=3913; ftd=4500; fud=4439.8; Eud=6.75%

TENSIONI MASSIME IN ESERCIZIO

GRUPPO : ordinario.
 CLS : σ_c (rara)=149.4; σ_c (quasi permanente)=112; fbd(esercizio)=26.86
 ACCIAIO: σ_f (rara)=3600; Coeff.Omogein.=15

SEZIONI UTILIZZATE

1) Rettangolare: base=40; alt.=30; Acls=1200; iy=11.55; iz=8.66

DESCRIZIONE ASTE E ARMATURA LONGITUDINALE

As	Se	ez	ey	Lassi	Lnet	Lcr.I	Lcr.S	Af	% arm
1	1/2	2	330	280	47	47	20.36	1.696	8φ18

CASI DI CARICO

Nome	Descrizione	Tipo	Ses
1	SLU SENZA SISMA	SLU (statico)	1
4	SLU con SISMAY PRINC	SLU (sismico)	16
5	SLU con SISMAY PRINC	SLU (sismico)	16
10	SLU GER SISMAY PRINC	SLU (sismico)	16
11	SLU GER SISMAY PRINC	SLU (sismico)	16
13	Rara	RARA	1
14	Frequente	FREQUENTE	1
15	Quasi Perm	QUASI PERMAN.	1

GERARCHIA DELLE RESISTENZE

MOMENTI ULTIMI MINIMI (CASI SISMICI):

Asta	caso	Myu- min	caso	Myu+ min	caso	Mzu- min	caso	Mzu+ min
1 inf	4-15	-1368315.	4-15	1368315.	5-11	-921910.	5-11	921910.
1 sup	4-15	-1243125.	4-15	1243125.	5-5	-977780.	5-5	977780.

TAGLI GERARCHIA:

Asta	caso	VEyd-	caso	VEyd+	caso	VEzd-	caso	VEzd+
1	4-13	-8243.1	4-13	8243.1	4-3	-11314.3	4-3	11314.3

VERIFICHE ALLO STATO LIMITE ULTIMO

PRESSO-FLESSIONE (incluse le imperfezioni):

Asta	Caso	NEd	MEyD	MEzD	E c/s	σ_c	E acc	σ_f	VE
> 1	5-12	-9930.	-474651.	154303.	-0.075	-85.8	.084	1762.1	SI
1	5-5	-9212.	85388.	-92942.	-0.022	-29.6	.012	259.3	SI
1	5-12	-8940.	291866.	-314424.	-0.081	-91.1	.09	1890.8	SI

SNELLEZZA LIMITE Y [EC2 5.8.3.1]:

Asta	Caso	NEd	MEyd inf	MEyd sup	l0	A	B	C	nu	L lim	Lambd	VE
1	1- 1	-14830.2	-16423.1	6101.1	330.	.7	1.39	2.07	.088	136.5	28.58	SI

SNELLEZZA LIMITE Z [EC2 5.8.3.1]:

Asta	Caso	NEd	MEzd inf	MEzd sup	l0	A	B	C	nu	L lim	Lambd	VE
1	4- 2	-9489.8	-36203.4	-149614.	330.	.7	1.39	1.46	.056	120.1	38.11	SI

TAGLIO Y:

Asta	Caso	VEd	VEd ger.	VRd	VRsd	VRcd	Asw	s	ctgT	VE	
1	inf	4-13	-1844.1	-8243.1	25019.1	25019.1	25326.1	1.01	9.	2.4	SI
1	cen	4-13	-1844.1	-8243.1	12344.9	12344.9	24530.5	1.01	19.	2.5	SI
1	sup	4-13	-1844.1	-8243.1	25019.1	25019.1	25186.4	1.01	9.	2.4	SI

TAGLIO Z:

Asta	Caso	VEd	VEd ger.	VRd	VRsd	VRcd	Asw	s	ctgT	VE	
1	inf	4- 3	-664.4	11314.3	28933.4	29434.8	28933.4	1.01	9.	2.05	SI
1	cen	4- 3	-664.4	11314.3	17003.4	17003.4	25249.7	1.01	19.	2.5	SI
1	sup	4- 3	-664.4	11314.3	28773.2	29434.8	28773.2	1.01	9.	2.05	SI

NED LIMITE (NEd < Nmax , Nmax=65% di Ncl's ; Ncl's=fcd*Ac) [7.4.4.2.2.1]:

Asta	Caso	NEd	Nmax	Ncl's	% Ncl's	VE
1	4-15	-10146.7	-110058.	-169320.	5.99	SI

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

RARE:

Asta	Caso	NEd	MEyd	MEzd	σc	σf	VE	
1	inf	13- 1	-10674.1	-11051.3	109946.8	-24.3	132.5	SI
1	cen	13- 1	-10179.1	-3629.9	-100500.8	-21.6	99.8	SI
1	sup	13- 1	-9684.1	3791.5	-310948.4	-61.6	1110.4	SI

FREQUENTI:

Asta	Caso	NEd	MEyd	MEzd	σc	σf	VE	
1	inf	14- 1	-10031.1	-8157.4	100983.9	-22.2	112.3	SI
1	cen	14- 1	-9536.1	-3143.4	-89783.8	-19.4	77.8	SI
1	sup	14- 1	-9041.1	1870.6	-280551.4	-55.4	984.7	SI

QUASI PERMANENTI:

Asta	Caso	NEd	MEyd	MEzd	σc	σf	VE	
1	inf	15- 1	-9818.3	-7461.7	97628.7	-21.4	104.7	SI
1	cen	15- 1	-9323.3	-3013.3	-86325.3	-18.7	71.1	SI
1	sup	15- 1	-8828.3	1435.1	-270279.4	-53.3	942.4	SI

Legenda

relazione.txt VERIFICA PILASTRO IN CEMENTO ARMATO

Nome pilastro : P002 (ID=47)
Metodo di verifica : stati limite - NTC08 (q=3.12)
Duttilita' : bassa senza gerarchia.
Unita' di misura : cm; daN; daN/cm; daNcm; daN/cm2; deform. %.
Unita' particolari : fessure [wk]:mm - ferri:mm e cm2 - sezioni:cm e derivate.
Copriferri (assi) : longitudinali= 4 ; staffe= 3

MATERIALI

CLS : C25/30; Rck=300; fck=249; fctk=17.91; fctm=25.58; Ecm=314472;
gc=1.5; fcd=141.1; fbd=26.86; fctd=11.94; Ecu=0.35%
ACCIAIO: B450C; ftk=5175; fyk=4500; Es=2100000;
gs=1.15; fyd=3913; ftd=4500; fud=4439.8; Eud=6.75%

TENSIONI MASSIME IN ESERCIZIO

GRUPPO : ordinario.
CLS : Scls(rara)=149.4; Scls(quasi permanente)=112; fbd(esercizio)=26.86
ACCIAIO: Sacc(rara)=3600; Coeff.Omogein.=15

SEZIONI UTILIZZATE

1) Rettangolare: base=30; alt.=30; Acls=900; iy=8.66; iz=8.66

Eccentricita' e:

[4.1.2.1.2.4] pari almeno a $0,05h \geq 20$ mm

[4.1.2.1.7.3] difetto di rettilineita' pari a 1/300 dell'altezza

Distanza tra gli assi travi

Area ferri

DESCRIZIONE ASTE E ARMATURA LONGITUDINALE

As	Se	ez	ey	Lassi	Lnet	Lcr.I	Lcr.S	Af	% arm
1	1	2.	2.	300.	278.	47.	47.	12.57	1.396
2	1	2.	2.	300.	278.	47.	47.	12.57	1.396
3	1	2.	2.	50.	28.	0.	0.	12.57	1.396

% armatura

$$[4.1.6.1.2] \quad A_{s,min} = \frac{0,10 N_{ed}}{f_{yd}} > 0,03 A_c$$

[7.4.6.2.2] $1\% \leq \rho \leq 4\%$ con ρ % geom. di armatura longitudinale

Lcritica inferiore e superiore [7.4.6.1.2]

La maggiore tra: l'altezza della sezione, 1/6 dell'altezza libera del pilastro, 45 cm, l'altezza libera del pilastro se questa e' inferiore a 3 volte l'altezza della sezione.

CASI DI CARICO

Nome	Descrizione	Tipo	Ses
1	SLU SENZA SISMA	SLU (statico)	1
4	SLU con SISMAX PRINC	SLU (sismico)	16
5	SLU con SISMAX PRINC	SLU (sismico)	16
10	Rara	RARA	1
11	Frequente	FREQUENTE	1
12	Quasi Perm	QUASI PERMAN.	1

Sestetti: numero di combinazioni di carico che fanno parte di un caso di carico.

Componenti di un sestetto:

$N_d - V_{yd} - V_{zd} - T_d - M_y - M_z$

Le sollecitazioni comprendono eventuali eccentricita' ① e gli effetti della rigidezza nomin. ②

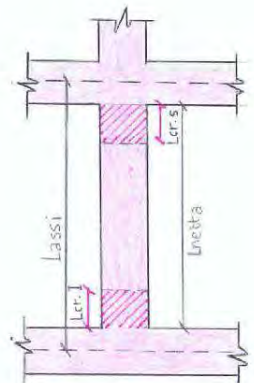
PRESSO-FLESSIONE (incluse le imperfezioni):				VERIFICHE ALLO STATO				LIMITE ULTIMO			
Asta	Caso	Ned	MEyd	MEzd	E cls	Scls	E acc	Sacc	VE	Sacc	VE
> 1	5	-5998.	46279.	1.	45617.	1.	-.017	-23.6	.007	156.7	SI
3	1-1	-2141.	16133.	1.	61716.	1.	-.015	-20.5	.016	336.8	SI

Indice del caso

Indice del sestetto

Moltiplicatore Miniziale per rispettare emin

Pagina 1



relazione.txt

METODO 1: Snellezza limite

SNELLEZZA LIMITE Y [EC2 5.8.3.1]:

Asta	Caso	NEd	MEyd inf	MEyd sup	l ₀	A	B	C	nu	L _{lim}	Lambda	VE
1	1-1	-11574.1	7912.8	27556.8	300.	.7	1.33	1.41	.091	87.28	34.64	SI
2	4-5	-3940.1	-10841.9	1259.7	300.	.7	1.33	1.82	.031	192.3	34.64	SI
3	1-1	-2286.9	-48739.9	16133.1	50.	.7	1.33	2.03	.018	282.3	5.77	SI

Momenti agenti inferiore e superiore

Lambda limite λ_{lim}
 $\lambda_{lim} = 20 \cdot A \cdot B \cdot C / \sqrt{n}$
 (5,43 N)

Snellezza $\lambda = \frac{l_0}{i}$ (EC2 form 5.14)

SNELLEZZA LIMITE Z [EC2 5.8.3.1]:

Asta	Caso	NEd	MEzd inf	MEzd sup	l ₀	A	B	C	nu	L _{lim}	Lambda	VE
1	5-16	-7866.5	2218.7	3012.3	300.	.7	1.33	.963	.062	72.19	34.64	SI
2	5-12	-4066.4	8737.3	8333.4	300.	.7	1.33	.746	.032	77.77	34.64	SI
3	1-1	-2286.9	-10212.	61715.9	50.	.7	1.33	1.87	.018	259.2	5.77	SI

* $A = \frac{1}{1 + 0.2 P_{ef}}$ se P_{ef} non è noto si può adottare $A = 0.7$ (Impostazioni → Parametri → Calcolo → Instabilità → 1. Metodo lambda limite: coefficiente A)

• $B = \sqrt{1 + 2w}$ se w non è noto si può adottare $B = 1.1$

☆ $C = 1.7 - r_m$ se r_m non è noto, si può adottare $C = 0.7$

METODO 2: Rigidezza nominale

INSTABILITA' - RIGIDEZZA NOMINALE Y [EC2 5.8.7.2]:

Asta	Caso	NEd	NB	l ₀	fi eff	Jn	J _{cls} /Jn	MEd/M0Ed	nu
1	inf	5-7	-5997.9	-383885.3	300.	3.	11131.7	6.0637	1.0159
2	sup	5-10	-3580.4	-383547.	300.	3.	11121.9	6.0691	1.0112
3	sup	1-1	-2140.7	-13780613	50.	3.	11100.1	6.081	1.0002

Lunghezza libera d'inflessione di calcolo

INSTABILITA' - RIGIDEZZA NOMINALE Z [EC2 5.8.7.2]:

Asta	Caso	NEd	NB	l ₀	fi eff	Jn	J _{cls} /Jn	MEd/M0Ed	nu
1	inf	5-7	-5997.9	-383885.3	300.	3.	11131.7	6.0637	1.0159
2	sup	5-10	-3580.4	-383547.	300.	3.	11121.9	6.0691	1.0112
3	sup	1-1	-2140.7	-13780613	50.	3.	11100.1	6.081	1.0002

⊗ P_{ef} : coefficiente efficace di viscosità n=forza assiale adimensionale:

* J_n = momento d'inerzia nominale = $\frac{EI}{E_{cm}}$ in D_{ni} E_{cm} = modulo elast. medio cls

⊙ M_{ed} = momento totale di progetto, M_{0ed} = momento di primo ordine [EC2 5.8.7.3]

⊗ $P_{ef} = P_{(t_0, t_0)} \cdot M_{0eqp} / M_{0ed}$ (EC2 5.8.4 formula 5.19)

M_{0eqp} = momento flettente del 1° ordine sotto la combinazione di carico q.p.

M_{0ed} = momento flettente del 1° ordine sotto la combinazione di carico di progetto SLU

$P_{(t_0, t_0)}$ = coefficiente finale di viscosità (EC2 cap. 3.1.4 figura 3.1)

t_0 = età del calcestruzzo (giorni)

P_{ef} è cautelativamente posto = 3 in Pilastri, tale valore può essere modificato dall'utente (Impostazioni → Parametri → Calcolo → Instabilità → 3 Rigidezza nominale)

TAGLIO Y:

Asta	Caso	VEd	VRd	VRsd	VRcd	ASw	s	ctgT	VE
1	inf	4-10	-343.5	26009.7	92051.4	26009.7	1.01	14.	1.
3	sup	1-1	1438.6	25180.5	92051.4	25180.5	1.01	14.	1.

[4.1.2.1.3]

Valore di calcolo dello sforzo di taglio agente

Resistenza di calcolo a "taglio trazione"

Area dell'armatura trasversale (singola staffa)

TAGLIO Z:

Asta	Caso	VEd	VRd	VRsd	VRcd	ASw	s	ctgT	VE
1	inf	5-12	-238.3	26298.7	92051.4	26298.7	1.01	14.	1.
3	sup	1-1	-1297.5	25180.5	92051.4	25180.5	1.01	14.	1.

Resistenza a taglio

Resist. di calcolo

ctgθ dove θ inclinazione

relazione.txt

$$\% N_{cl} = \frac{N_{ed}}{N_{cl}} \cdot 100$$

NED LIMITE (Ned < Nmax , Nmax=65% di Ncl ; Ncl=fcd*Ac) [7.4.4.2.2.1]:*

Asta	Caso	NEd	Nmax	Ncl	% Ncl	VE
1	5-10	-8092.4	-82543.5	-126990.	6.37	SI
2	5-14	-4258.2	-82543.5	-126990.	3.35	SI
3	4- 8	-1535.4	-82543.5	-126990.	1.21	SI

* Per le strutture in CD "B" ed in CD "A" la sollecitazione di compressione non deve eccedere, rispettivamente, il 65% ed il 55% della resistenza massima a compressione della sezione di solo ds.

VERIFICHE ALLO STATO LIMITE DI ESERCIZIO

RARE:

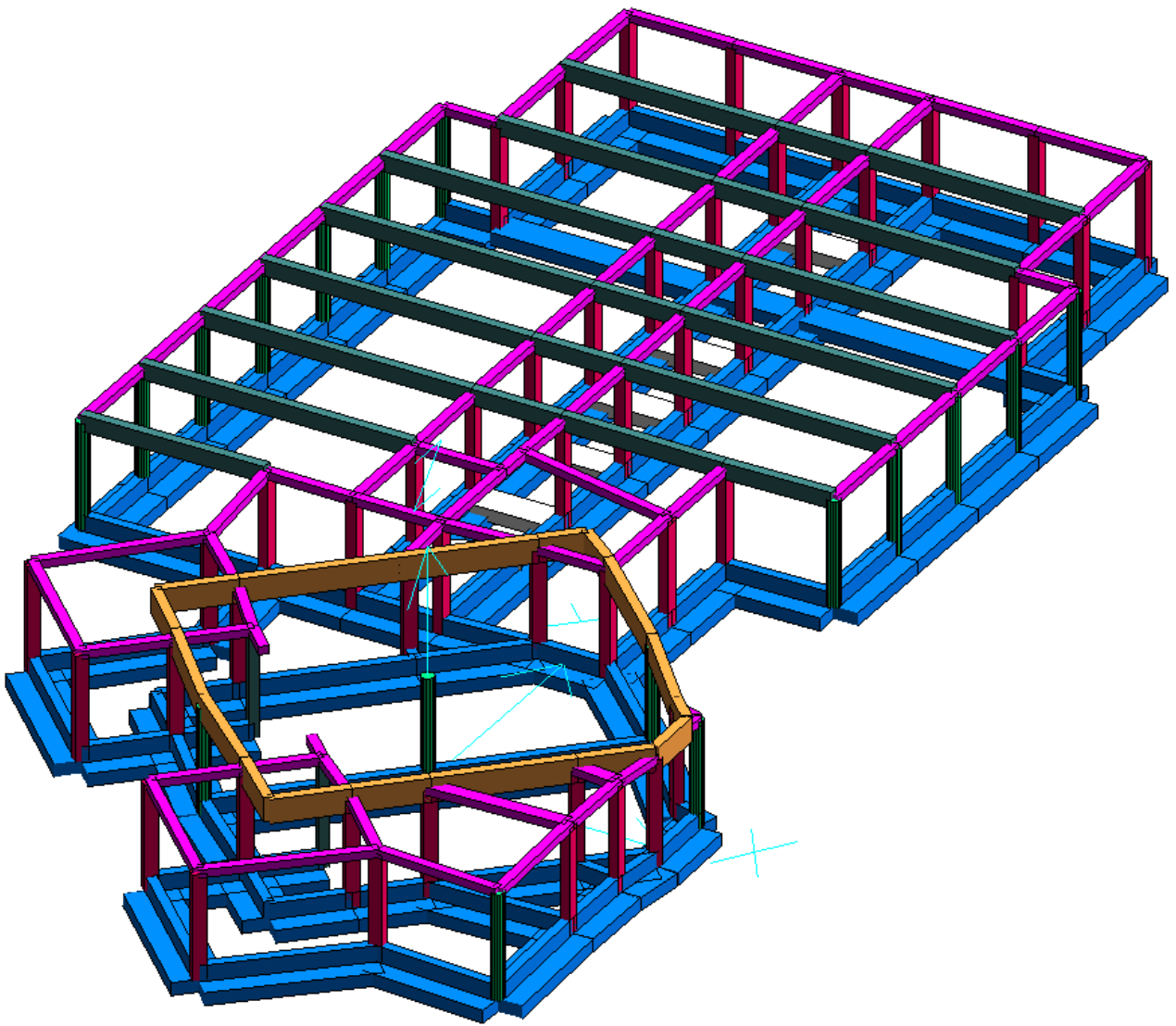
Asta	Caso	NEd	MEyd	MEzd	σ _{cl}	σ _{acc}	VE
1 inf	10- 1	-8607.2	6265.2	7529.8	-10.3	-94.4	SI
3 sup	10- 1	-1591.1	12058.9	45754.4	-15.6	248.9	SI

FREQUENTI:

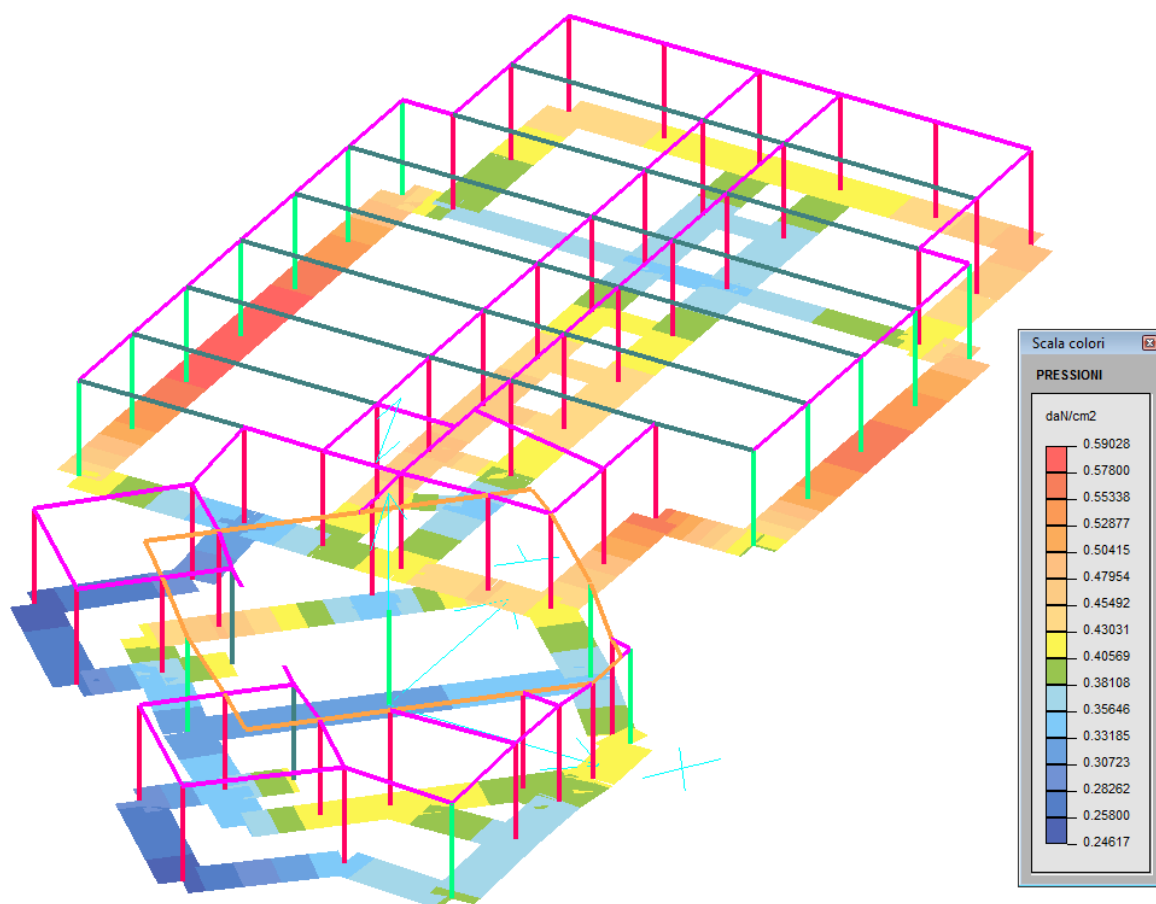
Asta	Caso	NEd	MEyd	MEzd	σ _{cl}	σ _{acc}	VE
1 inf	11- 1	-7429.9	7060.1	6842.9	-9.3	-77.7	SI
3 sup	11- 1	-1329.	10482.8	36796.5	-12.8	199.7	SI

QUASI PERMANENTI:

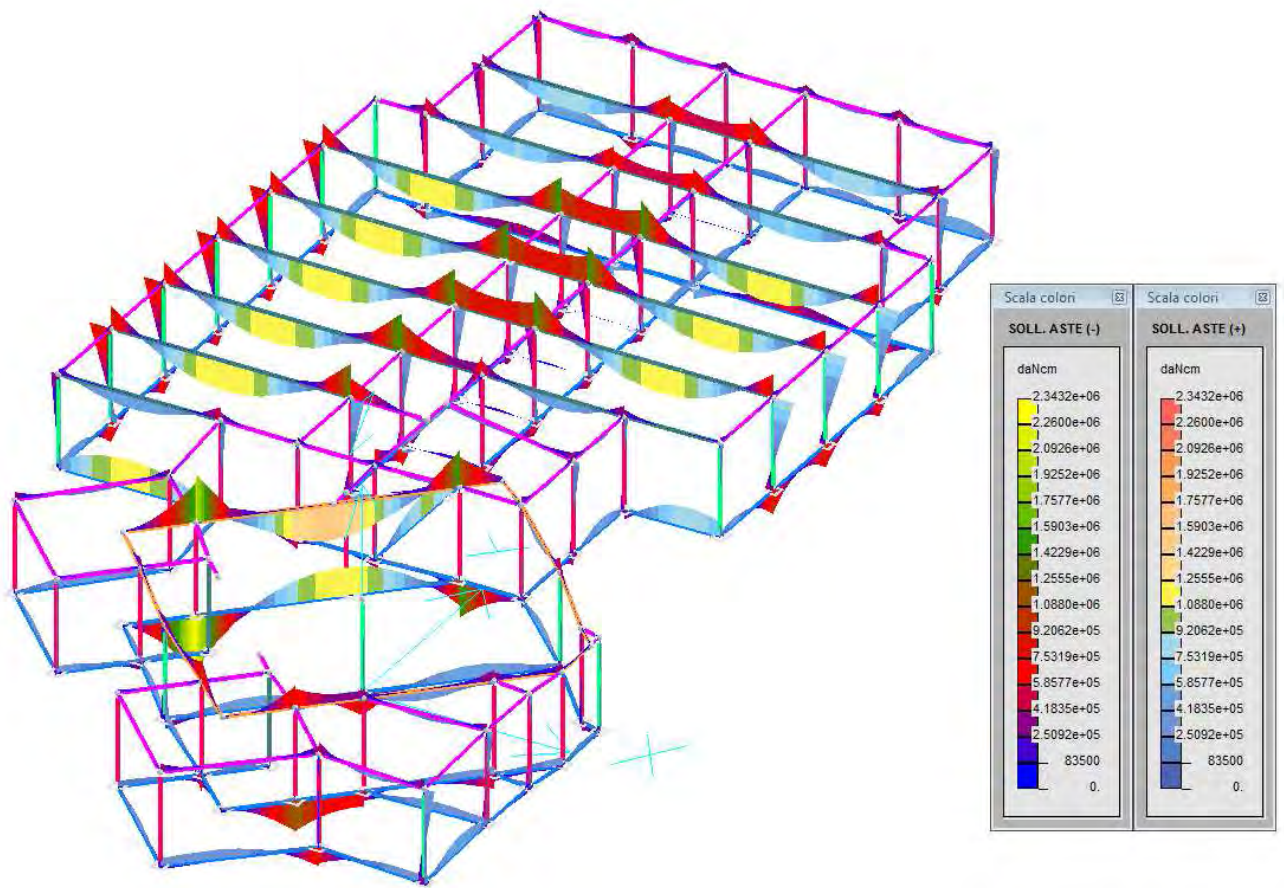
Asta	Caso	NEd	MEyd	MEzd	σ _{cl}	σ _{acc}	VE
1 inf	12- 1	-7045.2	7292.1	6623.7	-8.9	-72.4	SI
3 sup	12- 1	-1256.7	10026.3	34561.3	-12.	187.7	SI



MODELLO DI CALCOLO



PRESSIONI SUL TERRENO (involuppo)



SOLLECITAZIONI M_z (involuppo)

COPRIFERRI

STRUTTURE DI FONDAZIONE

Determinazione del copriferro

PRESCRIZIONE DEL CALCESTRUZZO PER TIPOLOGIA

- ☐ 1. STRUTTURE DI FONDAZIONE E INTERRATE
 - ☒ 1.1 Strutture di fondazione (plinti, pali, travi rovesce, paratie, platee) e muri interrati a contatto con terreni non aggressivi
 - ☒ 1.3 Strutture di fondazione (plinti, pali, travi rovesce, paratie, platee) e muri interrati di grande spessore
 - ☐ 1.2 Strutture di fondazione (plinti, pali, travi rovesce, paratie, platee) e muri interrati a contatto con terreni aggressivi e
- ☐ 2. LE STRUTTURE DI ELEVAZIONE IN CLIMI TEMPERATI
- ☐ 3. LE STRUTTURE AEREE IN CLIMI RIGIDI IN ASSENZA DI SALI DISGELANTI
- ☐ 4. LE STRUTTURE A TENUTA IDRAULICA
- ☐ 5. STRUTTURE IN AMBIENTE MARINO
- ☐ 6. LE STRUTTURE E INFRASTRUTTURE STRADALI
- ☐ 7. LE STRUTTURE DI GRANDI DIMENSIONI (MASSIVE)
- ☐ 8. LE STRUTTURE IN CALCESTRUZZO FACCIAVISTA
- ☐ 9. IL CALCESTRUZZO SPRUZZATO PER GALLERIE
- ☐ 10. LE PAVIMENTAZIONI IN CALCESTRUZZO
- ☐ 11. CALCESTRUZZI SPECIALI: I CALCESTRUZZI AUTOCOMPATTANTI
- ☐ 12. CALCESTRUZZI SPECIALI: I CALCESTRUZZI AD ALTA RESISTENZA MECCANICA

III

OK Cancel

CALCESTRUZZO TIPO 1 - FONDAZIONI E PARETI C.TERRA

PRESCRIZIONE TIPOLOGICA (1.1)

Classe di esposizione

<input type="button" value="i"/> Classe di resistenza	Rck	30	N/mm ²
<input type="button" value="i"/> Max rapporto A/C		0.60	
<input type="button" value="i"/> Q.ta minima cemento		300	Kg/mc
<input type="button" value="i"/> Contenuto aria			%

Classe di consistenza (Slump)

Copriferro nominale e Dimensione massima aggregati

Cnom mm d g.max mm

PRESCRIZIONE AGGIUNTIVA

☐ Tipo di cemento

☐ Sviluppo della resistenza per esigenze esecutive

 N° giorni maturazione: Rck richiesta: A/C: Rck(28):

☐ Resistenza penetrazione acqua

OK

Cancel

COPRIFERRO NOMINALE E DIMENSIONE MASSIMA AGGREGATI

COPRIFERRO NOMINALE

Vita utile struttura ☒ 50 anni ☐ 100 anni

Cmin, dur mm - Δc dur,add mm = mm

Ømax armature mm Øeq barre in gruppo mm

Cmin, b mm

Cnom = Cmin mm + Δc (toll.) mm = mm

DIMENSIONE MASSIMA AGGREGATI

Interferro minimo mm Spessore min. struttura cm

Dimensione massima aggregati (d g,max) mm

OK

Cancel

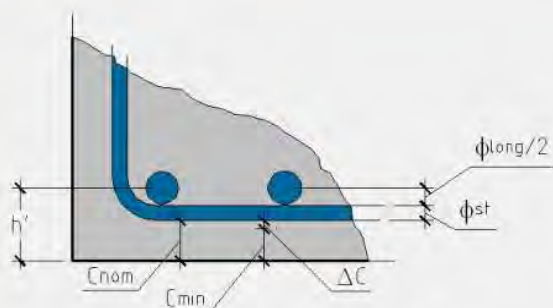
Copriferro minimo correlato alle condizioni ambientali

– Vita utile struttura 50 anni – Armatura ordinaria –

EN 1992-1-1 : 2005 – EC2

Classe di esposizione		Minimo spessore di copriferro (mm) c.a.
Corrosione da carbonatazione	Nessun rischio	X0
		10
	XC1	15
	XC2 , XC3	25
Corrosione da cloruri		XC4
		30
	XS1 , XD1	35
	XS2 , XD2	40
	XS3 , XD3	45

Ricoprimento minimo



c_{nom} : Valore da indicare nei disegni

$h' = c_{nom} + \phi_{st} + \phi_{long}/2$: valore per il calcolo

OK

STRUTTURE IN ELEVAZIONE

Determinazione del copriferro

PRESCRIZIONE DEL CALCESTRUZZO PER TIPOLOGIA

- ☐ 1. STRUTTURE DI FONDAZIONE E INTERRATE
- ☒ 2. LE STRUTTURE DI ELEVAZIONE IN CLIMI TEMPERATI
 - ☐ 2.1 Strutture in elevazione in ambienti interni e fabbricati
 - ☐ 2.2 Strutture in elevazione in ambienti esterni al riparo dalla pioggia
 - ☐ 2.3 Strutture in elevazione in ambienti esterni esposti alla pioggia
- ☐ 3. LE STRUTTURE AEREE IN CLIMI RIGIDI IN ASSENZA DI SALI DISGELANTI
- ☐ 4. LE STRUTTURE A TENUTA IDRAULICA
- ☐ 5. STRUTTURE IN AMBIENTE MARINO
- ☐ 6. LE STRUTTURE E INFRASTRUTTURE STRADALI
- ☐ 7. LE STRUTTURE DI GRANDI DIMENSIONI (MASSIVE)
- ☐ 8. LE STRUTTURE IN CALCESTRUZZO FACCIAVISTA
- ☐ 9. IL CALCESTRUZZO SPRUZZATO PER GALLERIE
- ☐ 10. LE PAVIMENTAZIONI IN CALCESTRUZZO
- ☐ 11. CALCESTRUZZI SPECIALI: I CALCESTRUZZI AUTOCOMPATTANTI
- ☐ 12. CALCESTRUZZI SPECIALI: I CALCESTRUZZI AD ALTA RESISTENZA MECCANICA

OK Cancel

CALCESTRUZZO TIPO 2 - STRUTTURE IN ELEVAZIONE

PRESCRIZIONE TIPOLOGICA (2.1)

Classe di esposizione: XC1

Classe di resistenza: Rck 30 N/mm²

Max rapporto A/C: 0.60

Q.ta minima cemento: 300 Kg/m³

Contenuto aria: %

Classe di consistenza (Slump): S4

Copriferro nominale e Dimensione massima aggregati

Cnom 20 mm d g.max 20 mm

PRESCRIZIONE AGGIUNTIVA

☐ Tipo di cemento:

☐ Sviluppo della resistenza per esigenze esecutive: N° giorni maturazione: Rck(1) richiesta A/C Rck(28)

☐ Resistenza penetrazione acqua:

OK Cancel

COPRIFERRO NOMINALE E DIMENSIONE MASSIMA AGGREGATI

COPRIFERRO NOMINALE

Vita utile struttura ☒ 50 anni ☐ 100 anni

C_{min, dur} 15 mm - **Δc_{dur, add}** mm = 15 mm

Ø_{max} armature 16 mm **Ø_{eq} barre in gruppo** mm

C_{min, b} 16 mm

C_{nom} = C_{min} 16 mm + **Δc (toll.)** 10 mm = 26 mm

DIMENSIONE MASSIMA AGGREGATI

Interferro minimo mm **Spessore min. struttura** cm

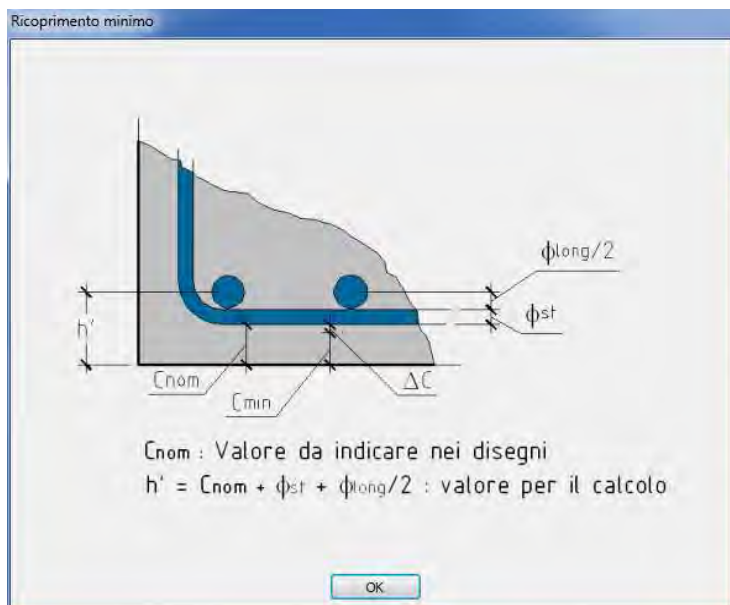
Dimensione massima aggregati (d_{g, max}) 20 mm

OK Cancel

COPRIFERRO 3

Copriferro minimo correlato alle condizioni ambientali
 – Vita utile struttura 50 anni - Armatura ordinaria –
 EN 1992-1-1 : 2005 – EC2

Classe di esposizione		Minimo spessore di copriferro (mm) c.a.
Nessun rischio	X0	10
	XC1	15
Corrosione da carbonatazione	XC2 , XC3	25
	XC4	30
Corrosione da cloruri	XS1 , XD1	35
	XS2 , XD2	40
	XS3 , XD3	45



ANCORAGGI DELLE BARRE

Per quanto riguarda l'ancoraggio delle armature longitudinali si precisa quanto segue:

- ai sensi di quanto indicato al par. 4.1.6.1.4 (NTC 2008) la continuità fra le barre viene garantita mediante sovrapposizione reciproca, nel dimensionamento di questa sovrapposizione è stato adottato un valore sempre superiore a 30 volte il diametro della barra, con la prescrizione di una distanza di interfero nella sovrapposizione non deve superare 4 volte il diametro;
- il suddetto criterio è adottato solo negli elementi continui quali: armatura orizzontale delle pareti controterra, cordoli di continuità dei solai;
- per quanto riguarda le armature delle travi non è prevista alcuna giunzione per sovrapposizione (né di altro tipo) in quanto vengono previsti sempre ferri continui in un unico elemento per l'intera campata. Ovviamente la lunghezza efficiente della barra è al netto della lunghezza di ancoraggio ferro/cls alle estremità, pertanto la lunghezza indicata nei disegni è comprensiva della parte necessaria all'ancoraggio di cui non è considerato l'apporto in termini di momento resistente.

VERIFICA ELEMENTI ORDITURA IN LEGNO DELLA COPERTURA

La procedura di calcolo degli elementi strutturali componenti l'orditura principale della copertura si è articolata nelle seguenti fasi:

- definizione schema statico in congruenza con il progetto architettonico
- modello di calcolo per la determinazione delle sollecitazioni
- verifica degli elementi
- verifica dei collegamenti

La struttura della copertura è articolata nei seguenti elementi (rif. tavola grafica):

- travi di colmo e di banchina
- travi cantonali
- travi/puntoni

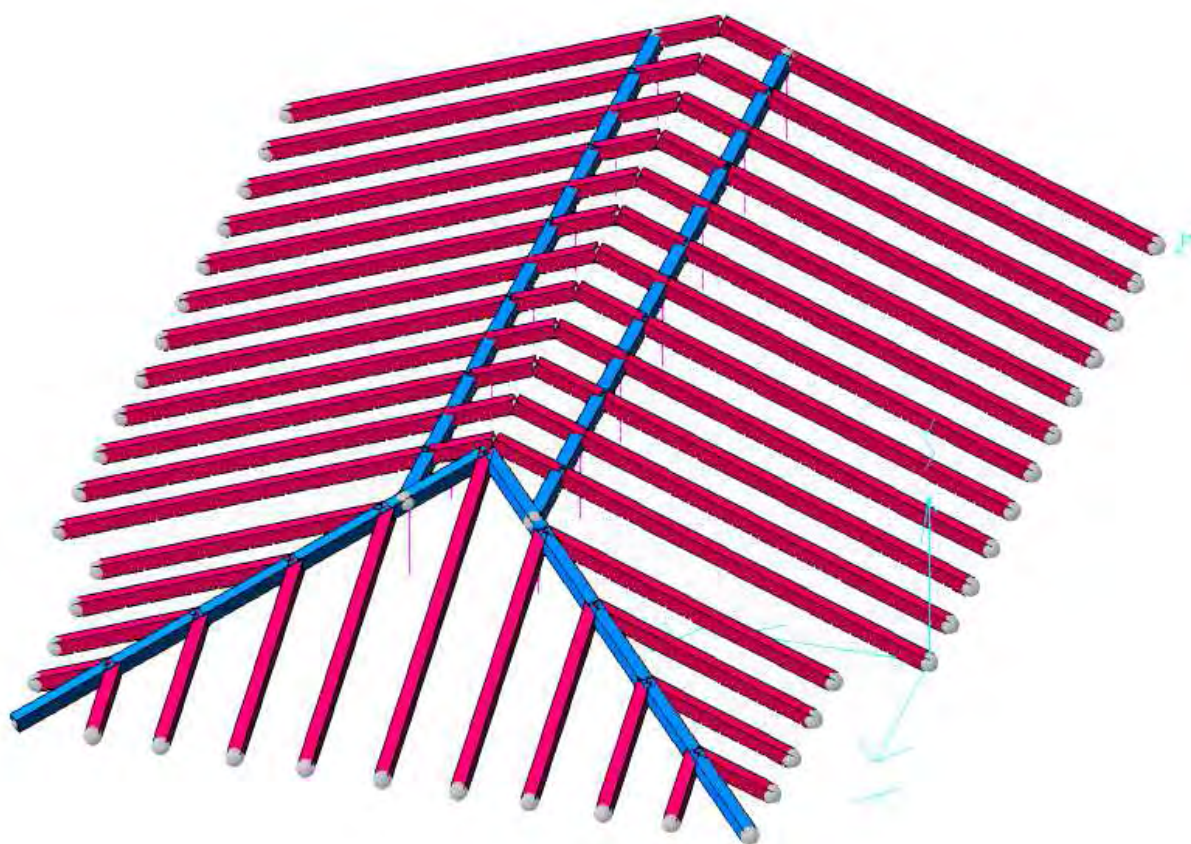
Le sollecitazioni determinate dal modello di calcolo sono state utilizzate per la verifica degli elementi della copertura, le reazioni vincolari determinate sono state inerite come carichi nel modello di calcolo della sottostante struttura in c.a., nonché utilizzati per la verifica dei collegamenti elementi in legno / struttura in c.a..

Accorgimenti di calcolo adottati

Al fine di un ulteriore fattore di sicurezza nelle calcolazioni sono state assunte le seguenti ipotesi di partenza nella schematizzazione del modello di calcolo e nelle verifiche:

- non è stato considerato l'apporto degli elementi secondari della copertura (quali liselli e tavolato) che conferiscono una rigidità trasversale alle falde di copertura e riducono le sollecitazioni (trasversali) effettive sugli elementi principali e sui collegamenti legno/struttura in c.a.
- non è stato considerato, ai soli fini della determinazione delle sollecitazioni di flessione sugli elementi puntoni della copertura, dello sporto della falda che costituisce di fatto una mensola per l'elemento puntone (schema statico di trave a una campata con balzo) adando a ridurre il momento in campata .

Copertura A – corpo di fabbrica destinato ad aule scolastiche



Modello di calcolo della copertura A

DATI ANALISI SISMICA:

ANALISI DINAMICA

lavoro : \13119C

PARAMETRI DI CALCOLO:

Calcolo secondo NTC 2008

Modello generale

Assi di vibrazione: X Y

Somma quadratica semplice (SRSS)

DATI PROGETTO

Edificio sito in località FAULE

Categoria del suolo di fondazione = C

Coeff. di amplificazione stratigrafica $S_s = 1.500$

Coeff. di amplificazione topografica $S_T = 1.000$

$S = 1.500$

Vita nominale dell'opera $V_N = 50$ anni

Coefficiente d'uso $C_U = 1.5$

Periodo di riferimento $V_R = 75.0$

PVR : probabilità di superamento in $V_R = 10 \%$

Tempo di ritorno = 712

Coeff. di smorzamento viscoso = 5.0

Valori risultanti per :

$a_g = 0.889$ [g/10]

$F_0 = 2.648$

$T_C^* = 0.279$

Edificio con struttura in cem. armato :

Fattore di struttura $q = 2.640$

$q = q_0 * K_R * K_W$ dove :

$q_0 = 3.00 * 1.1$ (A telaio di un piano) (Classe di duttilità "B" (bassa))

$K_R = 0.8$ (Edifici non regolari in altezza)

$K_W = 1.00$

Rapporto spettro di esercizio / spettro di progetto = 1.209

CONDIZIONI DI RIFERIMENTO	COEFFICIENTE	PESO RISULTANTE
1.	1.000	[daN] 22942.4
2.	1.000	55590.2

DESCRIZIONE CASI DI CARICO:

NOME	DESCRIZIONE	VERIFICA	TIPO	CONDIZ. INSERITE			CASI INSERITI	
				Num.	Coeff.	Segno	Num.	Coeff.
1	SLU SENZA SISMA	S.L.U.	somma	1 2 3	1.300 1.500 1.500	+ + +		
2	SISMAX SLU	nessuna	somma	6 9 10 12 13 14 16 18	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	± quadr. quadr. quadr. quadr. quadr. quadr. quadr.		
3	SISMAY SLU	nessuna	somma	7 8 11 15 17 19 20 21 22 23 24	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	± quadr. quadr. quadr. quadr. quadr. quadr. quadr. quadr. quadr. quadr.		
4	SLU con SISMAX PRINC	S.L.U.	somma	1 2	1.000 1.000	+ +	2 3	1.000 0.300
5	SLU con SISMAY PRINC	S.L.U.	somma	1 2	1.000 1.000	+ +	3 2	1.000 0.300
6	SLD con SISMAX PRINC	S.L.Danno	somma	1 2	1.000 1.000	+ +	2 3	1.209 0.363
7	SLD con SISMAY PRINC	S.L.Danno	somma	1 2	1.000 1.000	+ +	3 2	1.209 0.363
8	SLU FON con SISMAX P	SLU_FON	somma	1 2	1.000 1.000	+ +	2 3	1.100 0.330
9	SLU FON con SISMAY P	SLU_FON	somma	1 2	1.000 1.000	+ +	3 2	1.100 0.330
10	Rara	Rara	somma	1 2 3	1.000 1.000 1.000	+ + +		
11	Frequente	Freq.	somma	1 2 3	1.000 1.000 0.200	+ + +		
12	Quasi Perm	QuasiPerm.	somma	1 2	1.000 1.000	+ +		

SOLLECITAZIONI ASTE:

SOLLECITAZIONI ASTE

CASO DI CARICO : 1 SLU SENZA SISMA

COMBINAZIONE

N. 3 CONDIZIONI ANALISI STATICA

1	Peso_proprio_____	+	1.30
2	Permanente_____	+	1.50
3	Neve_(<1000m_slm)___	+	1.50

1) +1.30*c001 +1.50*c002 +1.50*c003

Unità di misura: Prog e frecce [cm];NORM,TYY,TZZ [daN]

MZZ,MY,TORS [daNcm]

Asta	3	nod	4	89		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	-1001.8	1972.2	-2.0	0.0	0.0	0.0
450.	0.0	-507.1	-2.0	0.0	898.1	329862.1
901.	1001.8	-2986.3	-2.0	0.0	1796.1	-456667.2

Asta	5	nod	7	88		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	1066.1	2011.6	0.2	0.0	0.0	0.0
450.	2067.9	-467.6	0.2	0.0	-76.1	347615.5
901.	3069.7	-2946.9	0.2	0.0	-152.1	-421160.4

Asta	7	nod	10	87		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	-1001.8	1970.6	0.5	0.0	0.0	0.0
450.	0.0	-508.6	0.5	0.0	-209.9	329159.7
901.	1001.8	-2987.9	0.5	0.0	-419.8	-458072.0

Asta	9	nod	13	86		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	586.1	2017.6	0.0	0.0	0.0	0.0
450.	1587.9	-461.7	0.0	0.0	21.3	350298.4
901.	2589.7	-2940.9	0.0	0.0	42.7	-415794.6

Asta	11	nod	16	85		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	-1001.8	1970.7	0.0	0.0	0.0	0.0
450.	0.0	-508.5	0.0	0.0	19.1	329215.4
901.	1001.8	-2987.8	0.0	0.0	38.2	-457960.5

Asta	13	nod	19	84		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	632.1	2017.0	0.0	0.0	0.0	0.0
450.	1633.9	-462.2	0.0	0.0	-12.3	350051.6
901.	2635.7	-2941.5	0.0	0.0	-24.6	-416288.3

Asta	15	nod	22	83		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	-1001.8	1970.7	-0.2	0.0	0.0	0.0
450.	0.0	-508.6	-0.2	0.0	88.9	329185.0
901.	1001.8	-2987.8	-0.2	0.0	177.8	-458021.5

Asta	17	nod	25	82		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	840.9	2014.6	-0.1	0.0	0.0	0.0
450.	1842.7	-464.7	-0.1	0.0	55.9	348955.4
901.	2844.5	-2943.9	-0.1	0.0	111.8	-418480.6

Asta	19	nod	28	81		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	-1001.8	1970.9	1.3	0.0	0.0	0.0
450.	0.0	-508.3	1.3	0.0	-574.4	329305.7
901.	1001.8	-2987.6	1.3	0.0	-1148.7	-457780.0

Asta	21	nod	31	80		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	-416.1	2029.1	0.0	0.0	0.0	0.0
450.	585.7	-450.1	0.0	0.0	-4.8	355512.8
901.	1587.5	-2929.4	0.0	0.0	-9.6	-405365.8

Asta	31	nod	50	49		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	-6709.9	323.7	19.4	0.0	10415.8	-73746.0
268.	-6785.1	137.4	19.4	0.0	5207.9	-11887.1
537.	-6860.4	-48.8	19.4	0.0	0.0	0.0

Asta	32	nod	52	51		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	-2177.4	433.3	32.9	0.0	23306.1	-132693.6
355.	-2276.9	187.1	32.9	0.0	11653.0	-22703.9
709.	-2376.3	-59.1	32.9	0.0	0.0	0.0

Asta	33	nod	53	46		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	-2301.2	516.6	-25.1	0.0	0.0	0.0

96.	-2109.6	42.5	-25.1	0.0	2406.3	25752.7
191.	-1969.2	-305.2	-25.1	0.0	4812.7	12173.3
Asta	34	node	54	48		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-5330.3	938.7	-12.3	0.0	0.0	0.0
178.	-4919.6	-77.6	-12.3	0.0	2188.7	75469.1
357.	-4544.1	-1006.8	-12.3	0.0	4377.5	-22491.6
Asta	35	node	55	50		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-7363.5	1395.7	-21.3	0.0	0.0	0.0
268.	-6745.8	-133.3	-21.3	0.0	5707.0	167669.5
537.	-6158.3	-1587.3	-21.3	0.0	11414.1	-64804.1
Asta	36	node	56	52		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3093.0	2059.7	-29.8	0.0	0.0	0.0
355.	-2158.9	-251.7	-29.8	0.0	10549.6	319073.1
709.	-1245.1	-2513.1	-29.8	0.0	21099.2	-172560.1
Asta	46	node	34	65		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-564.1	1111.1	-1.6	0.0	0.0	0.0
450.	0.0	-284.8	-1.6	0.0	715.7	186052.8
901.	564.1	-1680.7	-1.6	0.0	1431.4	-256475.2
Asta	47	node	65	35		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	4187.7	2253.3	0.0	-6403.8	15872.6	-271416.3
78.	4285.5	2010.9	0.0	-6403.8	15872.6	-104735.8
156.	4383.3	1768.5	0.0	-6403.8	15872.6	42993.9
Asta	50	node	63	46		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	8236.2	179.3	-0.5	0.0	0.0	0.0
131.	8320.7	-116.3	-0.5	0.0	68.8	2624.2
261.	8366.1	-275.2	-0.5	0.0	137.7	-24450.9
Asta	51	node	46	48		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	5428.0	148.3	-2.4	-2577.0	-265.6	-7457.8
113.	5451.2	67.2	-2.4	-2577.0	6.2	4676.8
225.	5474.3	-13.8	-2.4	-2577.0	278.0	7684.0
Asta	52	node	48	50		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1406.3	517.7	-7.9	-6559.4	-630.7	-26008.7
123.	-1381.1	429.3	-7.9	-6559.4	335.8	32105.4
245.	-1355.9	340.9	-7.9	-6559.4	1302.3	79373.4
Asta	53	node	50	52		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-10764.7	821.0	17.7	-12639.3	524.4	-12813.9
118.	-10740.5	736.3	17.7	-12639.3	-1560.5	78809.8
235.	-10716.3	651.6	17.7	-12639.3	-3645.4	160464.8
Asta	55	node	66	62		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	125.4	669.1	347.2	26407.5	50449.4	-86645.1
107.	203.4	395.7	347.2	26407.5	13431.5	-30659.8
213.	256.4	209.8	347.2	26407.5	-23586.4	842.3
Asta	73	node	80	32		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	1755.6	1709.5	0.0	725.3	-1797.8	-382733.7
78.	1929.3	1279.0	0.0	725.3	-1797.8	-265918.2
156.	2102.9	848.4	0.0	725.3	-1797.8	-182760.5
Asta	74	node	81	29		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	7238.8	3921.7	0.0	750.8	-1861.1	-471396.4
78.	7412.5	3491.2	0.0	750.8	-1861.1	-181635.7
156.	7586.2	3060.6	0.0	750.8	-1861.1	74467.2
Asta	75	node	82	26		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	3125.2	2262.1	0.0	-82.8	205.2	-406583.5
78.	3298.9	1831.5	0.0	-82.8	205.2	-246568.7
156.	3472.6	1401.0	0.0	-82.8	205.2	-120211.6
Asta	76	node	83	23		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	7217.6	3913.1	0.0	-117.4	291.6	-470262.0
78.	7391.3	3482.6	0.0	-117.4	291.6	-181169.2
156.	7565.0	3052.1	0.0	-117.4	291.7	74265.8
Asta	77	node	84	20		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	2930.9	2183.7	0.0	19.6	-48.2	-403761.3
78.	3104.6	1753.2	0.0	19.6	-48.1	-249872.0

156.	3278.3	1322.7	0.0	19.6	-48.0	-129640.5
Asta	78	nod	85	17		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	7222.9	3915.3	0.0	-29.2	69.1	-470548.4
78.	7396.6	3484.8	0.0	-29.2	68.6	-181287.1
156.	7570.3	3054.2	0.0	-29.2	68.2	74316.4
Asta	79	nod	86	14		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	2888.3	2166.4	0.0	-37.2	90.7	-403119.2
78.	3062.0	1735.8	0.0	-37.2	90.3	-250585.2
156.	3235.7	1305.3	0.0	-37.2	89.9	-131709.0
Asta	80	nod	87	11		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	7213.3	3911.4	0.0	293.5	-710.7	-470024.4
78.	7387.0	3480.8	0.0	293.5	-708.3	-181071.1
156.	7560.7	3050.3	0.0	293.5	-706.0	74224.4
Asta	81	nod	88	8		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	3362.7	2358.5	0.0	228.9	-560.4	-410191.0
78.	3536.4	1927.9	0.0	228.9	-558.3	-242638.9
156.	3710.1	1497.4	0.0	228.9	-556.3	-108744.5
Asta	82	nod	89	5		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	7331.5	3960.8	0.1	-2026.3	4937.5	-476629.6
78.	7505.2	3530.3	0.1	-2026.3	4925.9	-183808.5
156.	7678.9	3099.8	0.1	-2026.3	4914.3	75354.9
Asta	83	nod	90	66		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	1.3	-1527.5	249.7	-3694.3	96209.2	286528.4
100.	1.3	-1602.1	249.7	-3694.3	71335.5	130671.8
199.	1.3	-1676.7	249.7	-3694.3	46461.9	-32613.0
Asta	84	nod	1	90		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-559.8	2377.1	2.2	0.0	0.0	0.0
450.	600.3	-494.2	2.2	0.0	-999.3	430517.1
901.	1831.5	-3541.1	2.2	0.0	-1998.6	-471429.3
Asta	85	nod	90	2		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	1483.2	1606.3	-0.6	-2789.6	6719.8	-453135.0
78.	1657.5	1174.3	-0.6	-2789.6	6765.7	-344991.4
156.	1797.7	826.7	-0.6	-2789.6	6811.7	-267321.6
Asta	98	nod	65	80		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	1538.3	-689.1	14941.2	-15788.6	-536.2
81.	0.0	1477.8	-689.1	14941.2	39890.8	121312.9
162.	0.0	1417.3	-689.1	14941.2	95570.1	238273.4
Asta	99	nod	80	81		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	-2821.9	1204.2	-7691.0	97499.9	238277.0
81.	0.0	-2882.5	1204.2	-7691.0	142.5	7675.2
162.	0.0	-2943.0	1204.2	-7691.0	-97214.8	-227821.2
Asta	100	nod	81	82		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.1	2602.1	-1133.1	5925.4	-96273.0	-227390.9
81.	0.1	2541.6	-1133.1	5925.4	-4661.6	-19456.4
162.	0.1	2481.0	-1133.1	5925.4	86949.8	183583.4
Asta	101	nod	82	83		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-0.1	-2242.6	1077.1	-5971.6	86832.2	183541.5
81.	-0.1	-2303.1	1077.1	-5971.6	-194.0	-106.2
162.	-0.1	-2363.6	1077.1	-5971.6	-87220.2	-188642.6
Asta	102	nod	83	84		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	0.0	2415.3	-1090.1	6268.8	-87369.7	-188709.0
81.	0.0	2354.8	-1090.1	6268.8	765.9	4120.1
162.	0.0	2294.2	-1090.1	6268.8	88901.5	192054.6
Asta	108	nod	89	90		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1.5	3497.7	-1355.2	14600.0	-113805.2	-269929.9
81.	-1.5	3437.1	-1355.2	14600.0	-4233.8	10408.7
162.	-1.5	3376.6	-1355.2	14600.0	105337.6	285852.5

SOLLECITAZIONI ASTE

CASO DI CARICO : 4 SLU con SISMAX PRINC COMBINAZIONE

N.	2	CONDIZIONI ANALISI STATICA	
1		Peso_proprio_____ +	1.00
2		Permanente_____ +	1.00
N.	2	CASI DI CARICO	
2		SISMAX SLU	1.00
3		SISMAX SLU	0.30

1)	+1.00*c001	+1.00*c002	+1.00*c002.001	+0.30*c003.001
2)	+1.00*c001	+1.00*c002	+1.00*c002.001	+0.30*c003.002
3)	+1.00*c001	+1.00*c002	+1.00*c002.001	+0.30*c003.003
4)	+1.00*c001	+1.00*c002	+1.00*c002.001	+0.30*c003.004
5)	+1.00*c001	+1.00*c002	+1.00*c002.002	+0.30*c003.001
6)	+1.00*c001	+1.00*c002	+1.00*c002.002	+0.30*c003.002
7)	+1.00*c001	+1.00*c002	+1.00*c002.002	+0.30*c003.003
8)	+1.00*c001	+1.00*c002	+1.00*c002.002	+0.30*c003.004
9)	+1.00*c001	+1.00*c002	+1.00*c002.003	+0.30*c003.001
10)	+1.00*c001	+1.00*c002	+1.00*c002.003	+0.30*c003.002
11)	+1.00*c001	+1.00*c002	+1.00*c002.003	+0.30*c003.003
12)	+1.00*c001	+1.00*c002	+1.00*c002.003	+0.30*c003.004
13)	+1.00*c001	+1.00*c002	+1.00*c002.004	+0.30*c003.001
14)	+1.00*c001	+1.00*c002	+1.00*c002.004	+0.30*c003.002
15)	+1.00*c001	+1.00*c002	+1.00*c002.004	+0.30*c003.003
16)	+1.00*c001	+1.00*c002	+1.00*c002.004	+0.30*c003.004

Unità di misura: Prog e frecce [cm];NORM,TYY,TZZ [daN]
MZZ,MY,TORS [daNcm]

Asta	3	nod	4	89		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	-342.6	674.5	-0.6	0.0	0.0	0.0
	-342.6	674.5	-0.6	0.0	0.0	0.0
	-342.6	674.5	-0.5	0.0	0.0	0.0
	-342.6	674.5	-0.5	0.0	0.0	0.0
	-342.6	674.5	-0.6	0.0	0.0	0.0
	-342.6	674.5	-0.6	0.0	0.0	0.0
	-342.6	674.5	-0.5	0.0	0.0	0.0
	-342.6	674.5	-0.5	0.0	0.0	0.0
	-342.6	674.4	-0.8	0.0	0.0	0.0
	-342.6	674.4	-0.8	0.0	0.0	0.0
	-342.6	674.5	-0.7	0.0	0.0	0.0
	-342.6	674.5	-0.7	0.0	0.0	0.0
	-342.6	674.4	-0.8	0.0	0.0	0.0
	-342.6	674.4	-0.8	0.0	0.0	0.0
	-342.6	674.4	-0.7	0.0	0.0	0.0
	-342.6	674.4	-0.7	0.0	0.0	0.0
450.	0.0	-173.5	-0.6	0.0	256.9	112801.9
	0.0	-173.5	-0.6	0.0	257.0	112801.9
	0.0	-173.5	-0.5	0.0	204.6	112802.1
	0.0	-173.5	-0.5	0.0	204.7	112802.1
	0.0	-173.5	-0.6	0.0	268.4	112800.8
	0.0	-173.5	-0.6	0.0	268.5	112800.8
	0.0	-173.5	-0.5	0.0	216.2	112800.9
	0.0	-173.5	-0.5	0.0	216.2	112800.9
	0.0	-173.5	-0.8	0.0	370.0	112789.3
	0.0	-173.5	-0.8	0.0	370.1	112789.3
	0.0	-173.5	-0.7	0.0	317.7	112789.5
	0.0	-173.5	-0.7	0.0	317.8	112789.5
	0.0	-173.5	-0.8	0.0	381.6	112788.2
	0.0	-173.5	-0.8	0.0	381.7	112788.2
	0.0	-173.5	-0.7	0.0	329.3	112788.3
	0.0	-173.5	-0.7	0.0	329.4	112788.3
901.	342.6	-1021.4	-0.6	0.0	513.7	-156220.8
	342.6	-1021.4	-0.6	0.0	513.9	-156220.8
	342.6	-1021.4	-0.5	0.0	409.2	-156220.5
	342.6	-1021.4	-0.5	0.0	409.4	-156220.5
	342.6	-1021.4	-0.6	0.0	536.9	-156223.1
	342.6	-1021.4	-0.6	0.0	537.0	-156223.1
	342.6	-1021.4	-0.5	0.0	432.3	-156222.8
	342.6	-1021.4	-0.5	0.0	432.5	-156222.8
	342.6	-1021.4	-0.8	0.0	740.0	-156246.0
	342.6	-1021.4	-0.8	0.0	740.2	-156245.9
	342.6	-1021.4	-0.7	0.0	635.5	-156245.7
	342.6	-1021.4	-0.7	0.0	635.6	-156245.7
	342.6	-1021.4	-0.8	0.0	763.1	-156248.3
	342.6	-1021.4	-0.8	0.0	763.3	-156248.2
	342.6	-1021.4	-0.7	0.0	658.6	-156248.0
	342.6	-1021.4	-0.7	0.0	658.8	-156248.0
Asta	5	nod	7	88		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	503.0	689.0	0.0	0.0	0.0	0.0
	503.0	689.0	0.0	0.0	0.0	0.0
	504.5	689.0	0.1	0.0	0.0	0.0
	504.5	689.0	0.1	0.0	0.0	0.0
	462.5	688.9	0.0	0.0	0.0	0.0
	462.5	688.9	0.0	0.0	0.0	0.0
	464.0	688.9	0.1	0.0	0.0	0.0

	464.0	688.9	0.1	0.0	0.0	0.0
	186.6	687.9	0.0	0.0	0.0	0.0
	186.6	687.9	0.0	0.0	0.0	0.0
	188.1	687.9	0.1	0.0	0.0	0.0
	188.1	687.9	0.1	0.0	0.0	0.0
	146.1	687.8	0.0	0.0	0.0	0.0
	146.1	687.8	0.0	0.0	0.0	0.0
	147.5	687.8	0.1	0.0	0.0	0.0
	147.5	687.8	0.1	0.0	0.0	0.0
450.	845.7	-159.0	0.0	0.0	2.7	119320.1
	845.7	-159.0	0.0	0.0	2.3	119320.0
	847.1	-159.0	0.1	0.0	-62.9	119322.1
	847.1	-159.0	0.1	0.0	-63.3	119322.1
	805.1	-159.1	0.0	0.0	0.9	119277.0
	805.1	-159.1	0.0	0.0	0.5	119276.9
	806.6	-159.1	0.1	0.0	-64.7	119279.0
	806.6	-159.1	0.1	0.0	-65.1	119278.9
	529.2	-160.1	0.0	0.0	14.6	118826.0
	529.2	-160.1	0.0	0.0	14.2	118825.9
	530.7	-160.1	0.1	0.0	-51.0	118828.0
	530.7	-160.1	0.1	0.0	-51.4	118828.0
	488.7	-160.2	0.0	0.0	12.8	118782.8
	488.7	-160.2	0.0	0.0	12.4	118782.8
	490.2	-160.2	0.1	0.0	-52.8	118784.9
	490.2	-160.2	0.1	0.0	-53.2	118784.8
901.	1188.3	-1006.9	0.0	0.0	5.5	-143184.4
	1188.3	-1006.9	0.0	0.0	4.6	-143184.5
	1189.8	-1006.9	0.1	0.0	-125.7	-143180.3
	1189.8	-1006.9	0.1	0.0	-126.6	-143180.4
	1147.8	-1007.0	0.0	0.0	1.9	-143270.7
	1147.8	-1007.0	0.0	0.0	1.0	-143270.8
	1149.3	-1007.0	0.1	0.0	-129.3	-143266.6
	1149.3	-1007.0	0.1	0.0	-130.2	-143266.7
	871.8	-1008.0	0.0	0.0	29.3	-144172.6
	871.8	-1008.0	0.0	0.0	28.4	-144172.8
	873.3	-1008.0	0.1	0.0	-101.9	-144168.5
	873.3	-1008.0	0.1	0.0	-102.8	-144168.7
	831.3	-1008.1	0.0	0.0	25.7	-144258.9
	831.3	-1008.1	0.0	0.0	24.8	-144259.1
	832.8	-1008.1	0.1	0.0	-105.5	-144254.8
	832.8	-1008.1	0.1	0.0	-106.4	-144255.0
Asta	7	nod	10	87		
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ
0.	-342.6	674.0	0.2	0.0	0.0	0.0
	-342.6	674.0	0.2	0.0	0.0	0.0
	-342.6	674.0	0.3	0.0	0.0	0.0
	-342.6	674.0	0.3	0.0	0.0	0.0
	-342.6	674.0	0.1	0.0	0.0	0.0
	-342.6	674.0	0.1	0.0	0.0	0.0
	-342.6	674.0	0.3	0.0	0.0	0.0
	-342.6	674.0	0.3	0.0	0.0	0.0
	-342.6	674.0	0.0	0.0	0.0	0.0
	-342.6	674.0	0.0	0.0	0.0	0.0
	-342.6	674.0	0.1	0.0	0.0	0.0
	-342.6	674.0	0.1	0.0	0.0	0.0
	-342.6	674.0	0.0	0.0	0.0	0.0
	-342.6	674.0	0.0	0.0	0.0	0.0
	-342.6	674.0	0.1	0.0	0.0	0.0
	-342.6	674.0	0.1	0.0	0.0	0.0
	-342.6	674.0	0.0	0.0	0.0	0.0
	-342.6	674.0	0.0	0.0	0.0	0.0
	-342.6	674.0	0.1	0.0	0.0	0.0
	-342.6	674.0	0.1	0.0	0.0	0.0
450.	0.0	-173.9	0.2	0.0	-73.5	112592.7
	0.0	-173.9	0.2	0.0	-73.5	112592.7
	0.0	-173.9	0.3	0.0	-152.6	112592.8
	0.0	-173.9	0.3	0.0	-152.6	112592.8
	0.0	-173.9	0.1	0.0	-65.1	112591.6
	0.0	-173.9	0.1	0.0	-65.1	112591.6
	0.0	-173.9	0.3	0.0	-144.2	112591.6
	0.0	-173.9	0.3	0.0	-144.2	112591.6
	0.0	-174.0	0.0	0.0	12.7	112575.5
	0.0	-174.0	0.0	0.0	12.8	112575.5
	0.0	-174.0	0.1	0.0	-66.4	112575.5
	0.0	-174.0	0.1	0.0	-66.4	112575.5
	0.0	-174.0	0.0	0.0	21.1	112574.3
	0.0	-174.0	0.0	0.0	21.1	112574.3
	0.0	-174.0	0.1	0.0	-58.0	112574.4
	0.0	-174.0	0.1	0.0	-58.0	112574.4
901.	342.6	-1021.9	0.2	0.0	-147.0	-156639.1
	342.6	-1021.9	0.2	0.0	-146.9	-156639.1
	342.6	-1021.9	0.3	0.0	-305.3	-156639.0
	342.6	-1021.9	0.3	0.0	-305.2	-156639.0
	342.6	-1021.9	0.1	0.0	-130.2	-156641.5
	342.6	-1021.9	0.1	0.0	-130.1	-156641.5
	342.6	-1021.9	0.3	0.0	-288.5	-156641.4
	342.6	-1021.9	0.3	0.0	-288.4	-156641.4
	342.6	-1021.9	0.0	0.0	25.4	-156673.7
	342.6	-1021.9	0.0	0.0	25.5	-156673.7
	342.6	-1021.9	0.1	0.0	-132.8	-156673.5
	342.6	-1021.9	0.1	0.0	-132.7	-156673.5
	342.6	-1021.9	0.0	0.0	42.2	-156676.0
	342.6	-1021.9	0.0	0.0	42.3	-156676.0
	342.6	-1021.9	0.1	0.0	-116.0	-156675.9

	342.6	-1021.9	0.1	0.0	-115.9	-156675.9
Asta	9	nodj	13	86		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	385.6	690.8	-0.1	0.0	0.0	0.0
	385.6	690.8	-0.1	0.0	0.0	0.0
	385.9	690.8	0.1	0.0	0.0	0.0
	385.9	690.8	0.1	0.0	0.0	0.0
	374.1	690.7	-0.1	0.0	0.0	0.0
	374.1	690.7	-0.1	0.0	0.0	0.0
	374.4	690.7	0.1	0.0	0.0	0.0
	374.4	690.7	0.1	0.0	0.0	0.0
	-25.4	689.7	-0.1	0.0	0.0	0.0
	-25.4	689.7	-0.1	0.0	0.0	0.0
	-25.1	689.7	0.1	0.0	0.0	0.0
	-25.1	689.7	0.1	0.0	0.0	0.0
	-36.9	689.7	-0.1	0.0	0.0	0.0
	-36.9	689.7	-0.1	0.0	0.0	0.0
	-36.6	689.7	0.1	0.0	0.0	0.0
	-36.6	689.7	0.1	0.0	0.0	0.0
450.	728.2	-157.2	-0.1	0.0	53.3	120142.7
	728.2	-157.2	-0.1	0.0	52.9	120142.7
	728.5	-157.2	0.1	0.0	-27.9	120142.9
	728.5	-157.2	0.1	0.0	-28.4	120143.0
	716.7	-157.2	-0.1	0.0	51.7	120127.4
	716.7	-157.2	-0.1	0.0	51.3	120127.4
	717.1	-157.2	0.1	0.0	-29.6	120127.6
	717.1	-157.2	0.1	0.0	-30.0	120127.6
	317.2	-158.2	-0.1	0.0	43.5	119654.8
	317.2	-158.2	-0.1	0.0	43.1	119654.8
	317.6	-158.2	0.1	0.0	-37.7	119655.0
	317.6	-158.2	0.1	0.0	-38.1	119655.0
	305.8	-158.3	-0.1	0.0	41.9	119639.5
	305.8	-158.3	-0.1	0.0	41.5	119639.5
	306.1	-158.3	0.1	0.0	-39.4	119639.7
	306.1	-158.3	0.1	0.0	-39.8	119639.7
901.	1070.9	-1005.1	-0.1	0.0	106.7	-141539.1
	1070.9	-1005.1	-0.1	0.0	105.8	-141539.1
	1071.2	-1005.1	0.1	0.0	-55.9	-141538.7
	1071.2	-1005.1	0.1	0.0	-56.7	-141538.7
	1059.4	-1005.1	-0.1	0.0	103.4	-141569.8
	1059.4	-1005.1	-0.1	0.0	102.5	-141569.7
	1059.7	-1005.1	0.1	0.0	-59.2	-141569.3
	1059.7	-1005.1	0.1	0.0	-60.0	-141569.3
	659.9	-1006.2	-0.1	0.0	87.1	-142515.0
	659.9	-1006.2	-0.1	0.0	86.3	-142515.0
	660.2	-1006.2	0.1	0.0	-75.4	-142514.6
	660.2	-1006.2	0.1	0.0	-76.3	-142514.5
	648.4	-1006.2	-0.1	0.0	83.8	-142545.6
	648.4	-1006.2	-0.1	0.0	83.0	-142545.6
	648.7	-1006.2	0.1	0.0	-78.7	-142545.2
	648.7	-1006.2	0.1	0.0	-79.6	-142545.2
Asta	11	nodj	16	85		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-342.6	674.1	-0.1	0.0	0.0	0.0
	-342.6	674.1	-0.1	0.0	0.0	0.0
	-342.6	674.1	0.1	0.0	0.0	0.0
	-342.6	674.1	0.1	0.0	0.0	0.0
	-342.6	674.1	-0.1	0.0	0.0	0.0
	-342.6	674.1	-0.1	0.0	0.0	0.0
	-342.6	674.1	0.1	0.0	0.0	0.0
	-342.6	674.1	0.1	0.0	0.0	0.0
	-342.6	674.0	-0.1	0.0	0.0	0.0
	-342.6	674.0	-0.1	0.0	0.0	0.0
	-342.6	674.0	0.1	0.0	0.0	0.0
	-342.6	674.0	0.1	0.0	0.0	0.0
	-342.6	674.0	-0.1	0.0	0.0	0.0
	-342.6	674.0	-0.1	0.0	0.0	0.0
	-342.6	674.0	0.0	0.0	0.0	0.0
	-342.6	674.0	0.0	0.0	0.0	0.0
450.	0.0	-173.9	-0.1	0.0	29.2	112612.2
	0.0	-173.9	-0.1	0.0	29.2	112612.2
	0.0	-173.9	0.1	0.0	-54.9	112612.2
	0.0	-173.9	0.1	0.0	-54.9	112612.2
	0.0	-173.9	-0.1	0.0	38.3	112612.1
	0.0	-173.9	-0.1	0.0	38.3	112612.1
	0.0	-173.9	0.1	0.0	-45.8	112612.1
	0.0	-173.9	0.1	0.0	-45.8	112612.1
	0.0	-173.9	-0.1	0.0	56.3	112590.2
	0.0	-173.9	-0.1	0.0	56.4	112590.2
	0.0	-173.9	0.1	0.0	-27.8	112590.2
	0.0	-173.9	0.1	0.0	-27.7	112590.2
	0.0	-173.9	-0.1	0.0	65.5	112590.1
	0.0	-173.9	-0.1	0.0	65.5	112590.1
	0.0	-173.9	0.0	0.0	-18.6	112590.1
	0.0	-173.9	0.0	0.0	-18.6	112590.1
901.	342.6	-1021.8	-0.1	0.0	58.3	-156600.1
	342.6	-1021.8	-0.1	0.0	58.4	-156600.1
	342.6	-1021.8	0.1	0.0	-109.9	-156600.2
	342.6	-1021.8	0.1	0.0	-109.8	-156600.2

		342.6	-1021.8	-0.1	0.0	76.6	-156600.4
		342.6	-1021.8	-0.1	0.0	76.7	-156600.4
		342.6	-1021.8	0.1	0.0	-91.6	-156600.4
		342.6	-1021.8	0.1	0.0	-91.5	-156600.4
		342.6	-1021.9	-0.1	0.0	112.7	-156644.1
		342.6	-1021.9	-0.1	0.0	112.8	-156644.1
		342.6	-1021.9	0.1	0.0	-55.5	-156644.2
		342.6	-1021.9	0.1	0.0	-55.4	-156644.2
		342.6	-1021.9	-0.1	0.0	130.9	-156644.4
		342.6	-1021.9	-0.1	0.0	131.0	-156644.4
		342.6	-1021.9	0.0	0.0	-37.3	-156644.4
		342.6	-1021.9	0.0	0.0	-37.2	-156644.4
Asta	13	nod1	19	84			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	401.4	690.6	-0.1	0.0	0.0	0.0	
	401.4	690.6	-0.1	0.0	0.0	0.0	
	400.4	690.6	0.1	0.0	0.0	0.0	
	400.4	690.6	0.1	0.0	0.0	0.0	
	420.7	690.7	-0.1	0.0	0.0	0.0	
	420.7	690.7	-0.1	0.0	0.0	0.0	
	419.7	690.7	0.1	0.0	0.0	0.0	
	419.7	690.7	0.1	0.0	0.0	0.0	
	-45.0	689.5	-0.1	0.0	0.0	0.0	
	-45.0	689.5	-0.1	0.0	0.0	0.0	
	-46.0	689.5	0.1	0.0	0.0	0.0	
	-46.0	689.5	0.1	0.0	0.0	0.0	
	-25.7	689.5	-0.1	0.0	0.0	0.0	
	-25.7	689.5	-0.1	0.0	0.0	0.0	
	-26.7	689.5	0.1	0.0	0.0	0.0	
	-26.7	689.5	0.1	0.0	0.0	0.0	
450.	744.0	-157.3	-0.1	0.0	31.8	120080.5	
	744.0	-157.3	-0.1	0.0	31.3	120080.5	
	743.1	-157.3	0.1	0.0	-43.5	120079.7	
	743.1	-157.3	0.1	0.0	-44.0	120079.7	
	763.3	-157.3	-0.1	0.0	30.0	120098.3	
	763.3	-157.3	-0.1	0.0	29.6	120098.3	
	762.3	-157.3	0.1	0.0	-45.2	120097.5	
	762.3	-157.3	0.1	0.0	-45.7	120097.5	
	297.7	-158.5	-0.1	0.0	37.2	119546.9	
	297.7	-158.5	-0.1	0.0	36.8	119546.9	
	296.7	-158.5	0.1	0.0	-38.1	119546.1	
	296.7	-158.5	0.1	0.0	-38.5	119546.1	
	316.9	-158.4	-0.1	0.0	35.5	119564.7	
	316.9	-158.4	-0.1	0.0	35.1	119564.7	
	315.9	-158.4	0.1	0.0	-39.8	119563.9	
	315.9	-158.4	0.1	0.0	-40.2	119563.9	
901.	1086.7	-1005.2	-0.1	0.0	63.5	-141663.6	
	1086.7	-1005.2	-0.1	0.0	62.7	-141663.6	
	1085.7	-1005.2	0.1	0.0	-87.1	-141665.2	
	1085.7	-1005.2	0.1	0.0	-87.9	-141665.2	
	1105.9	-1005.2	-0.1	0.0	60.1	-141628.0	
	1105.9	-1005.2	-0.1	0.0	59.2	-141628.0	
	1105.0	-1005.2	0.1	0.0	-90.5	-141629.6	
	1105.0	-1005.2	0.1	0.0	-91.3	-141629.7	
	640.3	-1006.4	-0.1	0.0	74.4	-142730.7	
	640.3	-1006.4	-0.1	0.0	73.6	-142730.7	
	639.3	-1006.4	0.1	0.0	-76.1	-142732.3	
	639.3	-1006.4	0.1	0.0	-77.0	-142732.3	
	659.6	-1006.4	-0.1	0.0	71.0	-142695.2	
	659.6	-1006.4	-0.1	0.0	70.2	-142695.2	
	658.6	-1006.4	0.1	0.0	-79.6	-142696.8	
	658.6	-1006.4	0.1	0.0	-80.4	-142696.8	
Asta	15	nod1	22	83			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-342.6	674.0	-0.2	0.0	0.0	0.0	
	-342.6	674.0	-0.2	0.0	0.0	0.0	
	-342.6	674.0	-0.1	0.0	0.0	0.0	
	-342.6	674.0	-0.1	0.0	0.0	0.0	
	-342.6	674.0	-0.2	0.0	0.0	0.0	
	-342.6	674.0	-0.2	0.0	0.0	0.0	
	-342.6	674.0	-0.1	0.0	0.0	0.0	
	-342.6	674.0	-0.1	0.0	0.0	0.0	
	-342.6	674.0	-0.1	0.0	0.0	0.0	
	-342.6	674.0	-0.1	0.0	0.0	0.0	
	-342.6	674.0	0.1	0.0	0.0	0.0	
	-342.6	674.0	0.1	0.0	0.0	0.0	
	-342.6	674.0	-0.1	0.0	0.0	0.0	
	-342.6	674.0	-0.1	0.0	0.0	0.0	
	-342.6	674.0	0.1	0.0	0.0	0.0	
	-342.6	674.0	0.1	0.0	0.0	0.0	
450.	0.0	-173.9	-0.2	0.0	98.5	112599.7	
	0.0	-173.9	-0.2	0.0	98.6	112599.7	
	0.0	-173.9	-0.1	0.0	31.4	112599.6	
	0.0	-173.9	-0.1	0.0	31.5	112599.6	
	0.0	-173.9	-0.2	0.0	107.5	112600.4	
	0.0	-173.9	-0.2	0.0	107.5	112600.4	
	0.0	-173.9	-0.1	0.0	40.4	112600.3	
	0.0	-173.9	-0.1	0.0	40.4	112600.3	

	0.0	-174.0	-0.1	0.0	23.1	112581.1
	0.0	-174.0	-0.1	0.0	23.2	112581.1
	0.0	-174.0	0.1	0.0	-44.0	112581.0
	0.0	-174.0	0.1	0.0	-44.0	112581.0
	0.0	-174.0	-0.1	0.0	32.1	112581.8
	0.0	-174.0	-0.1	0.0	32.1	112581.8
	0.0	-174.0	0.1	0.0	-35.0	112581.7
	0.0	-174.0	0.1	0.0	-35.0	112581.7
901.	342.6	-1021.9	-0.2	0.0	197.1	-156625.2
	342.6	-1021.9	-0.2	0.0	197.2	-156625.2
	342.6	-1021.9	-0.1	0.0	62.8	-156625.3
	342.6	-1021.9	-0.1	0.0	62.9	-156625.3
	342.6	-1021.9	-0.2	0.0	215.0	-156623.9
	342.6	-1021.9	-0.2	0.0	215.1	-156623.9
	342.6	-1021.9	-0.1	0.0	80.8	-156624.1
	342.6	-1021.9	-0.1	0.0	80.9	-156624.1
	342.6	-1021.9	-0.1	0.0	46.2	-156662.3
	342.6	-1021.9	-0.1	0.0	46.3	-156662.3
	342.6	-1021.9	0.1	0.0	-88.0	-156662.5
	342.6	-1021.9	0.1	0.0	-87.9	-156662.5
	342.6	-1021.9	-0.1	0.0	64.2	-156661.0
	342.6	-1021.9	-0.1	0.0	64.2	-156661.0
	342.6	-1021.9	0.1	0.0	-70.1	-156661.2
	342.6	-1021.9	0.1	0.0	-70.0	-156661.2
Asta	17	nod1	25	82		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	405.6	689.6	-0.1	0.0	0.0	0.0
	405.6	689.6	-0.1	0.0	0.0	0.0
	403.6	689.6	0.0	0.0	0.0	0.0
	403.6	689.6	0.0	0.0	0.0	0.0
	455.2	689.7	-0.1	0.0	0.0	0.0
	455.2	689.7	-0.1	0.0	0.0	0.0
	453.2	689.7	0.0	0.0	0.0	0.0
	453.2	689.7	0.0	0.0	0.0	0.0
	70.6	688.7	-0.1	0.0	0.0	0.0
	70.6	688.7	-0.1	0.0	0.0	0.0
	68.6	688.7	0.0	0.0	0.0	0.0
	68.6	688.7	0.0	0.0	0.0	0.0
	120.2	688.8	-0.1	0.0	0.0	0.0
	120.2	688.8	-0.1	0.0	0.0	0.0
	118.2	688.8	0.0	0.0	0.0	0.0
	118.2	688.8	0.0	0.0	0.0	0.0
450.	748.3	-158.3	-0.1	0.0	51.2	119612.4
	748.3	-158.3	-0.1	0.0	50.7	119612.4
	746.3	-158.3	0.0	0.0	1.7	119610.6
	746.3	-158.3	0.0	0.0	1.2	119610.6
	797.9	-158.3	-0.1	0.0	49.3	119644.9
	797.9	-158.3	-0.1	0.0	48.9	119644.9
	795.9	-158.3	0.0	0.0	-0.2	119643.0
	795.9	-158.3	0.0	0.0	-0.6	119643.0
	413.2	-159.2	-0.1	0.0	39.7	119217.5
	413.2	-159.2	-0.1	0.0	39.3	119217.5
	411.2	-159.2	0.0	0.0	-9.8	119215.6
	411.2	-159.2	0.0	0.0	-10.2	119215.6
	462.9	-159.1	-0.1	0.0	37.9	119249.9
	462.9	-159.1	-0.1	0.0	37.5	119249.9
	460.8	-159.1	0.0	0.0	-11.6	119248.0
	460.8	-159.1	0.0	0.0	-12.0	119248.0
901.	1090.9	-1006.3	-0.1	0.0	102.3	-142599.7
	1090.9	-1006.3	-0.1	0.0	101.5	-142599.7
	1088.9	-1006.3	0.0	0.0	3.3	-142603.4
	1088.9	-1006.3	0.0	0.0	2.5	-142603.4
	1140.5	-1006.2	-0.1	0.0	98.6	-142534.8
	1140.5	-1006.2	-0.1	0.0	97.8	-142534.8
	1138.5	-1006.2	0.0	0.0	-0.4	-142538.5
	1138.5	-1006.2	0.0	0.0	-1.2	-142538.5
	755.9	-1007.2	-0.1	0.0	79.5	-143389.7
	755.9	-1007.2	-0.1	0.0	78.6	-143389.7
	753.9	-1007.2	0.0	0.0	-19.5	-143393.4
	753.9	-1007.2	0.0	0.0	-20.4	-143393.4
	805.5	-1007.1	-0.1	0.0	75.8	-143324.8
	805.5	-1007.1	-0.1	0.0	74.9	-143324.8
	803.5	-1007.1	0.0	0.0	-23.2	-143328.5
	803.5	-1007.1	0.0	0.0	-24.1	-143328.5
Asta	19	nod1	28	81		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-342.6	674.1	0.5	0.0	0.0	0.0
	-342.6	674.1	0.5	0.0	0.0	0.0
	-342.6	674.1	0.6	0.0	0.0	0.0
	-342.6	674.1	0.6	0.0	0.0	0.0
	-342.6	674.1	0.5	0.0	0.0	0.0
	-342.6	674.1	0.5	0.0	0.0	0.0
	-342.6	674.1	0.5	0.0	0.0	0.0
	-342.6	674.1	0.5	0.0	0.0	0.0
	-342.6	674.1	0.4	0.0	0.0	0.0
	-342.6	674.1	0.4	0.0	0.0	0.0
	-342.6	674.1	0.4	0.0	0.0	0.0
	-342.6	674.1	0.4	0.0	0.0	0.0
	-342.6	674.1	0.3	0.0	0.0	0.0

	-342.6	674.1	0.3	0.0	0.0	0.0
	-342.6	674.1	0.4	0.0	0.0	0.0
	-342.6	674.1	0.4	0.0	0.0	0.0
450.	0.0	-173.8	0.5	0.0	-220.6	112640.3
	0.0	-173.8	0.5	0.0	-220.5	112640.3
	0.0	-173.8	0.6	0.0	-252.8	112640.2
	0.0	-173.8	0.6	0.0	-252.7	112640.2
	0.0	-173.8	0.5	0.0	-210.9	112643.3
	0.0	-173.8	0.5	0.0	-210.8	112643.3
	0.0	-173.8	0.5	0.0	-243.1	112643.2
	0.0	-173.8	0.5	0.0	-243.0	112643.2
	0.0	-173.9	0.4	0.0	-161.0	112626.5
	0.0	-173.9	0.4	0.0	-161.0	112626.5
	0.0	-173.9	0.4	0.0	-193.2	112626.4
	0.0	-173.9	0.4	0.0	-193.2	112626.4
	0.0	-173.8	0.3	0.0	-151.3	112629.5
	0.0	-173.8	0.3	0.0	-151.3	112629.5
	0.0	-173.8	0.4	0.0	-183.5	112629.4
	0.0	-173.8	0.4	0.0	-183.5	112629.4
901.	342.6	-1021.8	0.5	0.0	-441.2	-156544.0
	342.6	-1021.8	0.5	0.0	-441.1	-156544.0
	342.6	-1021.8	0.6	0.0	-505.6	-156544.3
	342.6	-1021.8	0.6	0.0	-505.5	-156544.3
	342.6	-1021.8	0.5	0.0	-421.8	-156538.0
	342.6	-1021.8	0.5	0.0	-421.7	-156538.0
	342.6	-1021.8	0.5	0.0	-486.2	-156538.3
	342.6	-1021.8	0.5	0.0	-486.1	-156538.3
	342.6	-1021.8	0.4	0.0	-322.0	-156571.6
	342.6	-1021.8	0.4	0.0	-321.9	-156571.6
	342.6	-1021.8	0.4	0.0	-386.4	-156571.8
	342.6	-1021.8	0.4	0.0	-386.3	-156571.8
	342.6	-1021.8	0.3	0.0	-302.6	-156565.5
	342.6	-1021.8	0.3	0.0	-302.5	-156565.5
	342.6	-1021.8	0.4	0.0	-367.0	-156565.8
	342.6	-1021.8	0.4	0.0	-366.9	-156565.8
Asta	21	nod	31	80		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-135.3	694.6	0.0	0.0	0.0	0.0
	-135.3	694.6	0.0	0.0	0.0	0.0
	-137.8	694.6	0.0	0.0	0.0	0.0
	-137.8	694.6	0.0	0.0	0.0	0.0
	-51.7	694.9	0.0	0.0	0.0	0.0
	-51.7	694.9	0.0	0.0	0.0	0.0
	-54.3	694.9	0.0	0.0	0.0	0.0
	-54.3	694.9	0.0	0.0	0.0	0.0
	-308.5	694.0	0.0	0.0	0.0	0.0
	-308.5	694.0	0.0	0.0	0.0	0.0
	-311.0	694.0	0.0	0.0	0.0	0.0
	-311.0	694.0	0.0	0.0	0.0	0.0
	-224.9	694.3	0.0	0.0	0.0	0.0
	-224.9	694.3	0.0	0.0	0.0	0.0
	-227.5	694.3	0.0	0.0	0.0	0.0
	-227.4	694.3	0.0	0.0	0.0	0.0
450.	207.4	-153.3	0.0	0.0	3.0	121862.9
	207.4	-153.3	0.0	0.0	2.6	121862.9
	204.8	-153.3	0.0	0.0	-8.5	121861.7
	204.8	-153.3	0.0	0.0	-8.9	121861.7
	290.9	-153.0	0.0	0.0	5.6	121998.1
	290.9	-153.0	0.0	0.0	5.2	121998.1
	288.4	-153.0	0.0	0.0	-5.9	121996.9
	288.4	-153.0	0.0	0.0	-6.4	121996.9
	34.2	-153.9	0.0	0.0	-8.6	121610.8
	34.2	-153.9	0.0	0.0	-9.0	121610.8
	31.6	-153.9	0.0	0.0	-20.1	121609.6
	31.6	-153.9	0.0	0.0	-20.6	121609.6
	117.7	-153.6	0.0	0.0	-6.1	121745.9
	117.7	-153.6	0.0	0.0	-6.5	121745.9
	115.2	-153.6	0.0	0.0	-17.6	121744.7
	115.2	-153.6	0.0	0.0	-18.0	121744.7
901.	550.0	-1001.3	0.0	0.0	6.1	-138098.8
	550.0	-1001.3	0.0	0.0	5.2	-138098.8
	547.4	-1001.3	0.0	0.0	-17.0	-138101.1
	547.4	-1001.3	0.0	0.0	-17.8	-138101.1
	633.6	-1001.0	0.0	0.0	11.2	-137828.5
	633.6	-1001.0	0.0	0.0	10.3	-137828.5
	631.0	-1001.0	0.0	0.0	-11.9	-137830.9
	631.0	-1001.0	0.0	0.0	-12.7	-137830.9
	376.8	-1001.8	0.0	0.0	-17.2	-138603.0
	376.8	-1001.8	0.0	0.0	-18.1	-138603.0
	374.2	-1001.8	0.0	0.0	-40.3	-138605.4
	374.2	-1001.8	0.0	0.0	-41.1	-138605.4
	460.4	-1001.5	0.0	0.0	-12.1	-138332.8
	460.4	-1001.5	0.0	0.0	-13.0	-138332.8
	457.8	-1001.5	0.0	0.0	-35.2	-138335.2
	457.8	-1001.5	0.0	0.0	-36.0	-138335.2
Asta	31	nod	50	49		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2733.5	193.7	8.5	0.0	4538.1	-27037.2
	-2734.7	193.7	8.4	0.0	4527.5	-27057.2

	-2720.8	193.4	8.5	0.0	4580.7	-26874.7
	-2722.0	193.4	8.5	0.0	4570.1	-26894.7
	-2708.0	193.8	8.5	0.0	4552.4	-27094.2
	-2709.2	193.8	8.5	0.0	4541.8	-27114.3
	-2695.2	193.5	8.6	0.0	4595.0	-26931.8
	-2696.5	193.5	8.5	0.0	4584.4	-26951.8
	-2616.1	194.3	8.2	0.0	4407.5	-27385.6
	-2617.3	194.4	8.2	0.0	4396.9	-27405.6
	-2603.4	194.0	8.3	0.0	4450.1	-27223.2
	-2604.6	194.1	8.3	0.0	4439.5	-27243.2
	-2590.6	194.4	8.2	0.0	4421.8	-27442.7
	-2591.8	194.5	8.2	0.0	4411.2	-27462.7
	-2577.9	194.1	8.3	0.0	4464.4	-27280.3
	-2579.1	194.2	8.3	0.0	4453.8	-27300.3
268.	-2791.4	50.4	8.5	0.0	2269.0	5701.4
	-2792.6	50.4	8.4	0.0	2263.7	5691.3
	-2778.7	50.1	8.5	0.0	2290.4	5782.6
	-2779.9	50.1	8.5	0.0	2285.1	5772.6
	-2765.9	50.5	8.5	0.0	2276.2	5672.8
	-2767.1	50.5	8.5	0.0	2270.9	5662.8
	-2753.1	50.2	8.6	0.0	2297.5	5754.0
	-2754.3	50.2	8.5	0.0	2292.2	5744.0
	-2674.0	51.0	8.2	0.0	2203.8	5527.1
	-2675.2	51.1	8.2	0.0	2198.5	5517.1
	-2661.3	50.7	8.3	0.0	2225.1	5608.4
	-2662.5	50.8	8.3	0.0	2219.8	5598.3
	-2648.5	51.1	8.2	0.0	2210.9	5498.6
	-2649.7	51.2	8.2	0.0	2205.6	5488.6
	-2635.7	50.8	8.3	0.0	2232.2	5579.8
	-2637.0	50.9	8.3	0.0	2226.9	5569.8
537.	-2849.3	-92.9	8.5	0.0	0.0	0.0
	-2850.5	-92.9	8.4	0.0	0.0	0.0
	-2836.5	-93.2	8.5	0.0	0.0	0.0
	-2837.8	-93.2	8.5	0.0	0.0	0.0
	-2823.8	-92.8	8.5	0.0	0.0	0.0
	-2825.0	-92.7	8.5	0.0	0.0	0.0
	-2811.0	-93.1	8.6	0.0	0.0	0.0
	-2812.2	-93.1	8.5	0.0	0.0	0.0
	-2731.9	-92.2	8.2	0.0	0.0	0.0
	-2733.1	-92.2	8.2	0.0	0.0	0.0
	-2719.2	-92.5	8.3	0.0	0.0	0.0
	-2720.4	-92.5	8.3	0.0	0.0	0.0
	-2706.4	-92.1	8.2	0.0	0.0	0.0
	-2707.6	-92.1	8.2	0.0	0.0	0.0
	-2693.6	-92.4	8.3	0.0	0.0	0.0
	-2694.9	-92.4	8.3	0.0	0.0	0.0
Asta	32	nod	52	51		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-825.1	266.2	12.5	0.0	8878.0	-54460.1
	-829.8	266.2	12.5	0.0	8886.0	-54481.4
	-809.1	266.0	12.5	0.0	8847.3	-54379.4
	-813.8	266.1	12.5	0.0	8855.3	-54400.7
	-790.7	266.2	12.4	0.0	8771.6	-54479.5
	-795.4	266.2	12.4	0.0	8779.6	-54500.8
	-774.7	266.1	12.3	0.0	8740.9	-54398.7
	-779.4	266.1	12.3	0.0	8748.9	-54420.0
	-743.5	265.3	12.0	0.0	8531.2	-53832.3
	-748.2	265.3	12.0	0.0	8539.2	-53853.5
	-727.5	265.2	12.0	0.0	8500.5	-53751.5
	-732.2	265.2	12.0	0.0	8508.5	-53772.8
	-709.1	265.3	11.9	0.0	8424.8	-53851.6
	-713.8	265.3	11.9	0.0	8432.8	-53872.9
	-693.1	265.2	11.8	0.0	8394.1	-53770.8
	-697.8	265.2	11.8	0.0	8402.1	-53792.1
355.	-901.6	76.8	12.5	0.0	4439.0	6341.4
	-906.3	76.8	12.5	0.0	4443.0	6330.7
	-885.7	76.7	12.5	0.0	4423.6	6381.8
	-890.4	76.7	12.5	0.0	4427.7	6371.1
	-867.2	76.8	12.4	0.0	4385.8	6331.7
	-871.9	76.9	12.4	0.0	4389.8	6321.1
	-851.3	76.7	12.3	0.0	4370.4	6372.1
	-856.0	76.7	12.3	0.0	4374.5	6361.4
	-820.0	75.9	12.0	0.0	4265.6	6655.3
	-824.7	75.9	12.0	0.0	4269.6	6644.7
	-804.1	75.8	12.0	0.0	4250.2	6695.7
	-808.8	75.8	12.0	0.0	4254.2	6685.0
	-785.6	75.9	11.9	0.0	4212.4	6645.7
	-790.3	76.0	11.9	0.0	4216.4	6635.0
	-769.6	75.8	11.8	0.0	4197.0	6686.0
	-774.3	75.9	11.8	0.0	4201.0	6675.4
709.	-978.1	-112.6	12.5	0.0	0.0	0.0
	-982.8	-112.5	12.5	0.0	0.0	0.0
	-962.2	-112.7	12.5	0.0	0.0	0.0
	-966.9	-112.6	12.5	0.0	0.0	0.0
	-943.7	-112.5	12.4	0.0	0.0	0.0
	-948.4	-112.5	12.4	0.0	0.0	0.0
	-927.8	-112.7	12.3	0.0	0.0	0.0
	-932.5	-112.6	12.3	0.0	0.0	0.0
	-896.5	-113.4	12.0	0.0	0.0	0.0
	-901.2	-113.4	12.0	0.0	0.0	0.0

		-880.6	-113.6	12.0	0.0	0.0	0.0
		-885.3	-113.5	12.0	0.0	0.0	0.0
		-862.1	-113.4	11.9	0.0	0.0	0.0
		-866.8	-113.4	11.9	0.0	0.0	0.0
		-846.2	-113.5	11.8	0.0	0.0	0.0
		-850.9	-113.5	11.8	0.0	0.0	0.0
Asta	33	nod	53	46			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.		-1060.5	188.9	-11.3	0.0	0.0	0.0
		-1059.1	188.8	-11.3	0.0	0.0	0.0
		-1070.0	189.3	-11.3	0.0	0.0	0.0
		-1068.7	189.2	-11.3	0.0	0.0	0.0
		-1062.0	188.7	-11.2	0.0	0.0	0.0
		-1060.6	188.6	-11.2	0.0	0.0	0.0
		-1071.5	189.0	-11.3	0.0	0.0	0.0
		-1070.2	189.0	-11.2	0.0	0.0	0.0
		-1064.9	188.1	-10.9	0.0	0.0	0.0
		-1063.6	188.0	-10.9	0.0	0.0	0.0
		-1074.5	188.4	-11.0	0.0	0.0	0.0
		-1073.2	188.4	-11.0	0.0	0.0	0.0
		-1066.4	187.8	-10.9	0.0	0.0	0.0
		-1065.1	187.8	-10.8	0.0	0.0	0.0
		-1076.0	188.2	-10.9	0.0	0.0	0.0
		-1074.7	188.1	-10.9	0.0	0.0	0.0
96.		-993.6	23.5	-11.3	0.0	1078.3	9882.1
		-992.3	23.4	-11.3	0.0	1076.9	9876.3
		-1003.2	23.8	-11.3	0.0	1084.5	9916.0
		-1001.9	23.8	-11.3	0.0	1083.1	9910.2
		-995.1	23.3	-11.2	0.0	1070.6	9861.1
		-993.8	23.2	-11.2	0.0	1069.2	9855.3
		-1004.7	23.6	-11.3	0.0	1076.8	9895.0
		-1003.4	23.6	-11.2	0.0	1075.5	9889.2
		-998.1	22.6	-10.9	0.0	1047.3	9800.9
		-996.8	22.6	-10.9	0.0	1045.9	9795.1
		-1007.7	23.0	-11.0	0.0	1053.5	9834.8
		-1006.4	22.9	-11.0	0.0	1052.1	9829.0
		-999.6	22.4	-10.9	0.0	1039.7	9779.9
		-998.3	22.4	-10.8	0.0	1038.3	9774.1
		-1009.2	22.8	-10.9	0.0	1045.9	9813.8
191.		-1007.9	22.7	-10.9	0.0	1044.5	9808.0
		-941.1	-106.5	-11.3	0.0	2156.5	5626.9
		-939.8	-106.6	-11.3	0.0	2153.8	5615.3
		-950.7	-106.1	-11.3	0.0	2168.9	5694.8
		-949.4	-106.2	-11.3	0.0	2166.2	5683.1
		-942.6	-106.7	-11.2	0.0	2141.2	5584.9
		-941.3	-106.8	-11.2	0.0	2138.5	5573.3
		-952.2	-106.4	-11.3	0.0	2153.7	5652.8
		-950.9	-106.4	-11.2	0.0	2150.9	5641.1
		-945.6	-107.3	-10.9	0.0	2094.6	5464.5
		-944.3	-107.4	-10.9	0.0	2091.9	5452.8
		-955.2	-107.0	-11.0	0.0	2107.0	5532.3
		-953.9	-107.0	-11.0	0.0	2104.3	5520.7
		-947.1	-107.6	-10.9	0.0	2079.3	5422.5
		-945.8	-107.6	-10.8	0.0	2076.6	5410.9
		-956.7	-107.2	-10.9	0.0	2091.8	5490.3
		-955.4	-107.3	-10.9	0.0	2089.0	5478.7
Asta	34	nod	54	48			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.		-2228.9	319.0	-5.6	0.0	0.0	0.0
		-2225.0	318.9	-5.6	0.0	0.0	0.0
		-2259.8	319.2	-5.6	0.0	0.0	0.0
		-2255.9	319.2	-5.6	0.0	0.0	0.0
		-2228.4	318.9	-5.5	0.0	0.0	0.0
		-2224.4	318.8	-5.5	0.0	0.0	0.0
		-2259.3	319.1	-5.6	0.0	0.0	0.0
		-2255.3	319.1	-5.6	0.0	0.0	0.0
		-2218.7	318.4	-5.4	0.0	0.0	0.0
		-2214.7	318.4	-5.3	0.0	0.0	0.0
		-2249.6	318.7	-5.4	0.0	0.0	0.0
		-2245.6	318.6	-5.4	0.0	0.0	0.0
		-2218.1	318.3	-5.3	0.0	0.0	0.0
		-2214.2	318.2	-5.3	0.0	0.0	0.0
		-2249.0	318.6	-5.4	0.0	0.0	0.0
		-2245.1	318.5	-5.4	0.0	0.0	0.0
178.		-2089.3	-26.5	-5.6	0.0	990.5	25709.6
		-2085.4	-26.5	-5.6	0.0	989.7	25703.9
		-2120.2	-26.2	-5.6	0.0	998.6	25758.2
		-2116.3	-26.2	-5.6	0.0	997.8	25752.5
		-2088.8	-26.6	-5.5	0.0	985.4	25690.5
		-2084.8	-26.6	-5.5	0.0	984.6	25684.8
		-2119.7	-26.3	-5.6	0.0	993.5	25739.1
		-2115.7	-26.4	-5.6	0.0	992.7	25733.4
		-2079.1	-27.1	-5.4	0.0	954.4	25607.2
		-2075.1	-27.1	-5.3	0.0	953.6	25601.5
		-2110.0	-26.8	-5.4	0.0	962.5	25655.8
		-2106.0	-26.8	-5.4	0.0	961.7	25650.1
		-2078.5	-27.2	-5.3	0.0	949.4	25588.1
		-2074.6	-27.2	-5.3	0.0	948.6	25582.3
		-2109.4	-26.9	-5.4	0.0	957.4	25636.7

		-2105.5	-26.9	-5.4	0.0	956.7	25630.9
357.		-1959.6	-347.5	-5.6	0.0	1980.9	-7993.9
		-1955.6	-347.6	-5.6	0.0	1979.4	-8005.3
		-1990.5	-347.3	-5.6	0.0	1997.1	-7896.6
		-1986.5	-347.3	-5.6	0.0	1995.6	-7908.1
		-1959.1	-347.6	-5.5	0.0	1970.8	-8032.2
		-1955.1	-347.7	-5.5	0.0	1969.3	-8043.6
		-1990.0	-347.4	-5.6	0.0	1987.0	-7935.0
		-1986.0	-347.4	-5.6	0.0	1985.5	-7946.4
		-1949.4	-348.1	-5.4	0.0	1908.8	-8198.7
		-1945.4	-348.1	-5.3	0.0	1907.3	-8210.1
		-1980.3	-347.8	-5.4	0.0	1925.0	-8101.5
		-1976.3	-347.9	-5.4	0.0	1923.5	-8112.9
		-1948.8	-348.2	-5.3	0.0	1898.7	-8237.0
		-1944.8	-348.2	-5.3	0.0	1897.2	-8248.5
		-1979.7	-347.9	-5.4	0.0	1914.9	-8139.8
		-1975.7	-348.0	-5.4	0.0	1913.4	-8151.3
Asta	35	nod	55	50			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.							
		-2887.7	471.4	-9.0	0.0	0.0	0.0
		-2880.9	471.4	-9.0	0.0	0.0	0.0
		-2923.9	471.7	-9.2	0.0	0.0	0.0
		-2917.1	471.6	-9.1	0.0	0.0	0.0
		-2890.2	471.3	-8.9	0.0	0.0	0.0
		-2883.4	471.2	-8.9	0.0	0.0	0.0
		-2926.4	471.6	-9.1	0.0	0.0	0.0
		-2919.6	471.5	-9.1	0.0	0.0	0.0
		-2909.7	470.7	-8.8	0.0	0.0	0.0
		-2902.9	470.7	-8.8	0.0	0.0	0.0
		-2945.9	471.0	-8.9	0.0	0.0	0.0
		-2939.1	471.0	-8.9	0.0	0.0	0.0
		-2912.2	470.6	-8.7	0.0	0.0	0.0
		-2905.4	470.6	-8.7	0.0	0.0	0.0
		-2948.4	470.9	-8.8	0.0	0.0	0.0
		-2941.7	470.9	-8.8	0.0	0.0	0.0
268.		-2677.7	-48.4	-9.0	0.0	2422.1	56276.3
		-2670.9	-48.4	-9.0	0.0	2421.6	56265.7
		-2713.9	-48.1	-9.2	0.0	2455.0	56355.5
		-2707.1	-48.1	-9.1	0.0	2454.6	56344.9
		-2680.2	-48.5	-8.9	0.0	2398.2	56240.7
		-2673.4	-48.5	-8.9	0.0	2397.8	56230.1
		-2716.4	-48.2	-9.1	0.0	2431.1	56320.0
		-2709.6	-48.2	-9.1	0.0	2430.7	56309.4
		-2699.7	-49.0	-8.8	0.0	2355.7	56098.6
		-2692.9	-49.1	-8.8	0.0	2355.3	56088.0
		-2735.9	-48.7	-8.9	0.0	2388.6	56177.9
		-2729.1	-48.8	-8.9	0.0	2388.2	56167.3
		-2702.2	-49.2	-8.7	0.0	2331.8	56063.1
		-2695.4	-49.2	-8.7	0.0	2331.4	56052.5
		-2738.5	-48.9	-8.8	0.0	2364.7	56142.4
		-2731.7	-48.9	-8.8	0.0	2364.3	56131.8
537.		-2476.2	-547.1	-9.0	0.0	4844.1	-24066.2
		-2469.4	-547.1	-9.0	0.0	4843.3	-24087.4
		-2512.4	-546.8	-9.2	0.0	4910.0	-23907.6
		-2505.6	-546.8	-9.1	0.0	4909.1	-23928.8
		-2478.7	-547.2	-8.9	0.0	4796.4	-24137.2
		-2471.9	-547.2	-8.9	0.0	4795.5	-24158.4
		-2514.9	-546.9	-9.1	0.0	4862.2	-23978.7
		-2508.2	-546.9	-9.1	0.0	4861.3	-23999.8
		-2498.2	-547.7	-8.8	0.0	4711.4	-24421.5
		-2491.4	-547.8	-8.8	0.0	4710.6	-24442.7
		-2534.4	-547.4	-8.9	0.0	4777.3	-24262.9
		-2527.7	-547.5	-8.9	0.0	4776.4	-24284.1
		-2500.7	-547.9	-8.7	0.0	4663.6	-24492.5
		-2493.9	-547.9	-8.7	0.0	4662.8	-24513.7
		-2537.0	-547.6	-8.8	0.0	4729.5	-24334.0
		-2530.2	-547.6	-8.8	0.0	4728.6	-24355.2
Asta	36	nod	56	52			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.							
		-1062.8	681.6	-11.3	0.0	0.0	0.0
		-1056.9	681.5	-11.2	0.0	0.0	0.0
		-1083.3	681.7	-11.4	0.0	0.0	0.0
		-1077.4	681.7	-11.4	0.0	0.0	0.0
		-1089.3	681.3	-11.3	0.0	0.0	0.0
		-1083.5	681.2	-11.3	0.0	0.0	0.0
		-1109.9	681.4	-11.4	0.0	0.0	0.0
		-1104.0	681.4	-11.4	0.0	0.0	0.0
		-1123.9	680.7	-11.5	0.0	0.0	0.0
		-1118.0	680.6	-11.4	0.0	0.0	0.0
		-1144.4	680.8	-11.6	0.0	0.0	0.0
		-1138.6	680.8	-11.6	0.0	0.0	0.0
		-1150.5	680.3	-11.5	0.0	0.0	0.0
		-1144.6	680.3	-11.5	0.0	0.0	0.0
		-1171.0	680.5	-11.6	0.0	0.0	0.0
		-1165.1	680.5	-11.6	0.0	0.0	0.0
355.		-752.2	-86.8	-11.3	0.0	3998.3	105028.6
		-746.4	-86.9	-11.2	0.0	3986.9	105016.5
		-772.8	-86.7	-11.4	0.0	4038.6	105086.2
		-766.9	-86.7	-11.4	0.0	4027.3	105074.1

	1609.1	871.4	-4.1	-2130.2	4954.4	-104869.8
	1609.1	871.4	-3.5	-2117.4	5022.0	-104869.3
	1609.1	871.4	-3.5	-2117.4	5021.7	-104869.3
	1622.7	871.6	-1.6	-2205.2	5308.8	-104901.2
	1622.7	871.6	-1.6	-2205.2	5308.4	-104901.2
	1622.7	871.6	-1.0	-2192.5	5376.1	-104900.7
	1622.7	871.6	-1.0	-2192.4	5375.8	-104900.7
78.	1647.1	777.2	1.0	-2273.8	5616.0	-40467.9
	1647.1	777.2	1.0	-2273.8	5615.8	-40467.9
	1647.1	777.2	1.6	-2261.0	5633.8	-40467.7
	1647.1	777.2	1.6	-2261.0	5633.7	-40467.7
	1660.7	777.4	3.5	-2348.8	5777.9	-40483.6
	1660.7	777.4	3.5	-2348.8	5777.7	-40483.6
	1660.6	777.4	4.1	-2336.0	5795.8	-40483.4
	1660.6	777.4	4.1	-2336.0	5795.6	-40483.4
	1647.2	776.9	-4.1	-2130.2	5274.5	-40440.1
	1647.2	776.9	-4.1	-2130.2	5274.4	-40440.1
	1647.2	776.9	-3.5	-2117.4	5292.4	-40439.9
	1647.2	776.9	-3.5	-2117.4	5292.2	-40439.9
	1660.8	777.1	-1.6	-2205.2	5436.5	-40455.8
	1660.8	777.1	-1.6	-2205.2	5436.3	-40455.8
	1660.8	777.1	-1.0	-2192.5	5454.3	-40455.6
156.	1660.8	777.1	-1.0	-2192.4	5454.1	-40455.6
	1685.2	682.7	1.0	-2273.8	5536.4	16601.1
	1685.2	682.7	1.0	-2273.8	5536.4	16601.1
	1685.2	682.7	1.6	-2261.0	5504.8	16601.0
	1685.2	682.7	1.6	-2261.0	5504.8	16601.0
	1698.8	682.9	3.5	-2348.8	5506.2	16601.1
	1698.8	682.9	3.5	-2348.8	5506.2	16601.1
	1698.8	682.9	4.1	-2336.0	5474.5	16601.0
	1698.8	682.9	4.1	-2336.0	5474.5	16601.0
	1685.4	682.4	-4.1	-2130.2	5595.6	16602.1
	1685.4	682.4	-4.1	-2130.2	5595.6	16602.1
	1685.4	682.4	-3.5	-2117.4	5564.0	16602.0
	1685.4	682.4	-3.5	-2117.4	5564.0	16602.0
	1699.0	682.6	-1.6	-2205.2	5565.4	16602.1
	1699.0	682.6	-1.6	-2205.2	5565.4	16602.1
	1698.9	682.6	-1.0	-2192.5	5533.7	16602.0
	1698.9	682.6	-1.0	-2192.4	5533.7	16602.0
Asta	50	nod	63	46		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	3576.4	79.9	-0.2	0.0	0.0	0.0
	3569.5	79.9	-0.2	0.0	0.0	0.0
	3619.2	79.6	-0.2	0.0	0.0	0.0
	3612.2	79.7	-0.2	0.0	0.0	0.0
	3550.9	80.0	-0.2	0.0	0.0	0.0
	3544.0	80.1	-0.2	0.0	0.0	0.0
	3593.7	79.8	-0.2	0.0	0.0	0.0
	3586.7	79.8	-0.2	0.0	0.0	0.0
	3470.4	80.6	-0.1	0.0	0.0	0.0
	3463.4	80.6	-0.1	0.0	0.0	0.0
	3513.1	80.3	-0.1	0.0	0.0	0.0
	3506.1	80.4	-0.1	0.0	0.0	0.0
	3444.9	80.7	-0.1	0.0	0.0	0.0
	3437.9	80.8	-0.1	0.0	0.0	0.0
	3487.6	80.5	-0.1	0.0	0.0	0.0
	3480.6	80.5	-0.1	0.0	0.0	0.0
131.	3613.3	-49.0	-0.2	0.0	24.6	1601.9
	3606.3	-48.9	-0.2	0.0	24.9	1607.4
	3656.0	-49.3	-0.2	0.0	21.6	1564.6
	3649.0	-49.2	-0.2	0.0	21.9	1570.1
	3587.8	-48.8	-0.2	0.0	23.5	1621.8
	3580.8	-48.8	-0.2	0.0	23.8	1627.3
	3630.5	-49.1	-0.2	0.0	20.6	1584.5
	3623.5	-49.1	-0.2	0.0	20.9	1590.0
	3507.2	-48.3	-0.1	0.0	17.8	1693.5
	3500.2	-48.2	-0.1	0.0	18.1	1699.0
	3550.0	-48.6	-0.1	0.0	14.8	1656.1
	3543.0	-48.5	-0.1	0.0	15.1	1661.7
	3481.7	-48.1	-0.1	0.0	16.8	1713.4
	3474.7	-48.1	-0.1	0.0	17.0	1718.9
	3524.5	-48.4	-0.1	0.0	13.8	1676.1
	3517.5	-48.4	-0.1	0.0	14.1	1681.6
261.	3639.1	-139.5	-0.2	0.0	49.2	-11133.9
	3632.2	-139.5	-0.2	0.0	49.7	-11122.8
	3681.9	-139.8	-0.2	0.0	43.3	-11208.5
	3674.9	-139.8	-0.2	0.0	43.8	-11197.5
	3613.6	-139.4	-0.2	0.0	47.1	-11094.0
	3606.7	-139.3	-0.2	0.0	47.6	-11083.0
	3656.4	-139.7	-0.2	0.0	41.2	-11168.7
	3649.4	-139.6	-0.2	0.0	41.8	-11157.6
	3533.1	-138.8	-0.1	0.0	35.6	-10950.7
	3526.1	-138.8	-0.1	0.0	36.1	-10939.7
	3575.8	-139.1	-0.1	0.0	29.7	-11025.4
	3568.8	-139.1	-0.1	0.0	30.3	-11014.3
	3507.6	-138.7	-0.1	0.0	33.5	-10910.9
	3500.6	-138.6	-0.1	0.0	34.1	-10899.9
	3550.3	-139.0	-0.1	0.0	27.6	-10985.5
	3543.3	-138.9	-0.1	0.0	28.2	-10974.5

Asta	51	nod1	46	48		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	2231.4	82.3	-0.8	-724.0	-38.8	-2817.1
	2226.1	82.3	-0.8	-724.0	-36.9	-2824.3
	2262.5	82.1	-0.9	-723.9	-58.8	-2785.4
	2257.2	82.1	-0.9	-723.9	-56.9	-2792.7
	2211.3	82.5	-0.8	-724.0	-45.8	-2843.3
	2206.1	82.6	-0.8	-724.0	-43.9	-2850.6
	2242.4	82.3	-0.9	-723.9	-65.9	-2811.7
	2237.1	82.4	-0.9	-723.9	-64.0	-2818.9
	2146.8	83.1	-0.4	-723.4	-85.2	-2891.6
	2141.6	83.1	-0.4	-723.4	-83.2	-2898.9
	2177.9	82.9	-0.5	-723.3	-105.2	-2860.0
	2172.6	82.9	-0.5	-723.3	-103.3	-2867.2
	2126.8	83.3	-0.5	-723.4	-92.2	-2917.9
	2121.5	83.3	-0.5	-723.4	-90.3	-2925.1
	2157.8	83.1	-0.6	-723.3	-112.2	-2886.2
	2152.6	83.2	-0.6	-723.3	-110.3	-2893.4
113.	2249.2	19.9	-0.8	-724.0	17.6	2881.1
	2244.0	20.0	-0.8	-724.0	18.5	2879.7
	2280.3	19.7	-0.9	-723.9	9.0	2919.0
	2275.0	19.8	-0.9	-723.9	9.9	2917.6
	2229.2	20.1	-0.8	-724.0	16.3	2879.9
	2223.9	20.2	-0.8	-724.0	17.1	2878.5
	2260.2	20.0	-0.9	-723.9	7.7	2917.7
	2255.0	20.0	-0.9	-723.9	8.5	2916.3
	2164.7	20.7	-0.4	-723.4	-5.6	2979.7
	2159.4	20.8	-0.4	-723.4	-4.8	2978.3
	2195.7	20.5	-0.5	-723.3	-14.2	3017.5
	2190.5	20.6	-0.5	-723.3	-13.4	3016.1
	2144.6	20.9	-0.5	-723.4	-7.0	2978.5
	2139.3	21.0	-0.5	-723.4	-6.2	2977.0
	2175.7	20.7	-0.6	-723.3	-15.6	3016.3
	2170.4	20.8	-0.6	-723.3	-14.8	3014.9
225.	2267.1	-42.4	-0.8	-724.0	104.5	1656.5
	2261.8	-42.4	-0.8	-724.0	104.2	1661.0
	2298.1	-42.6	-0.9	-723.9	93.3	1603.6
	2292.9	-42.6	-0.9	-723.9	93.0	1608.0
	2247.0	-42.2	-0.8	-724.0	108.8	1680.3
	2241.7	-42.2	-0.8	-724.0	108.5	1684.7
	2278.1	-42.4	-0.9	-723.9	97.5	1627.3
	2272.8	-42.3	-0.9	-723.9	97.2	1631.8
	2182.5	-41.6	-0.4	-723.4	57.6	1828.7
	2177.2	-41.6	-0.4	-723.4	57.3	1833.1
	2213.6	-41.8	-0.5	-723.3	46.3	1775.7
	2208.3	-41.8	-0.5	-723.3	46.1	1780.2
	2162.4	-41.4	-0.5	-723.4	61.8	1852.4
	2157.2	-41.4	-0.5	-723.4	61.6	1856.9
	2193.5	-41.6	-0.6	-723.3	50.6	1799.5
	2188.2	-41.6	-0.6	-723.3	50.3	1803.9
Asta	52	nod1	48	50		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-687.7	232.4	-2.0	-1864.0	-122.0	-9723.2
	-687.5	232.3	-2.0	-1864.0	-120.1	-9736.3
	-702.4	233.0	-2.2	-1864.4	-149.1	-9533.2
	-702.2	233.0	-2.3	-1864.4	-147.3	-9546.4
	-689.3	232.3	-1.8	-1862.7	-120.5	-9756.8
	-689.2	232.2	-1.8	-1862.7	-118.6	-9769.9
	-704.1	232.9	-2.0	-1863.1	-147.7	-9566.9
	-703.9	232.9	-2.0	-1863.1	-145.8	-9580.0
	-727.9	229.7	-2.6	-1859.6	-222.7	-10129.7
	-727.7	229.7	-2.6	-1859.6	-220.8	-10142.8
	-742.7	230.4	-2.8	-1859.9	-249.9	-9939.7
	-742.5	230.3	-2.8	-1859.9	-248.0	-9952.9
	-729.6	229.6	-2.3	-1858.3	-221.2	-10163.3
	-729.4	229.6	-2.4	-1858.3	-219.4	-10176.4
	-744.3	230.3	-2.6	-1858.6	-248.4	-9973.4
	-744.1	230.2	-2.6	-1858.6	-246.5	-9986.5
123.	-668.3	164.4	-2.0	-1864.0	134.4	14469.6
	-668.1	164.4	-2.0	-1864.0	138.2	14452.5
	-683.0	165.0	-2.2	-1864.4	157.7	14624.1
	-682.8	165.0	-2.3	-1864.4	161.6	14607.1
	-669.9	164.3	-1.8	-1862.7	108.8	14422.2
	-669.7	164.2	-1.8	-1862.7	112.7	14405.2
	-684.7	164.9	-2.0	-1863.1	132.2	14576.8
	-684.5	164.9	-2.0	-1863.1	136.0	14559.7
	-708.5	161.7	-2.6	-1859.6	60.4	14163.7
	-708.3	161.7	-2.6	-1859.6	64.3	14146.6
	-723.2	162.4	-2.8	-1859.9	83.8	14318.2
	-723.1	162.4	-2.8	-1859.9	87.6	14301.2
	-710.2	161.6	-2.3	-1858.3	34.8	14116.4
	-710.0	161.6	-2.4	-1858.3	38.7	14099.3
	-724.9	162.3	-2.6	-1858.6	58.2	14270.9
	-724.7	162.3	-2.6	-1858.6	62.1	14253.8
245.	-648.9	96.4	-2.0	-1864.0	325.7	30438.2
	-648.7	96.4	-2.0	-1864.0	331.6	30417.2
	-663.6	97.1	-2.2	-1864.4	376.3	30595.1
	-663.4	97.0	-2.3	-1864.4	382.2	30574.1
	-650.5	96.3	-1.8	-1862.7	273.1	30377.2
	-650.3	96.3	-1.8	-1862.7	279.0	30356.2

		-665.2	96.9	-2.0	-1863.1	323.7	30534.1
		-665.1	96.9	-2.0	-1863.1	329.6	30513.1
		-689.1	93.8	-2.6	-1859.6	431.8	29957.2
		-688.9	93.7	-2.6	-1859.6	437.6	29936.2
		-703.8	94.4	-2.8	-1859.9	482.4	30114.1
		-703.6	94.4	-2.8	-1859.9	488.2	30093.1
		-690.8	93.7	-2.3	-1858.3	379.2	29896.2
		-690.6	93.6	-2.4	-1858.3	385.0	29875.2
		-705.5	94.3	-2.6	-1858.6	429.8	30053.1
		-705.3	94.3	-2.6	-1858.6	435.6	30032.1
Asta	53	nod	50	52			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-4517.0	311.4	7.7	-3911.1	213.8	-3244.4	
	-4508.1	311.6	8.0	-3910.3	229.2	-3297.6	
	-4572.9	307.0	6.4	-3915.7	310.0	-2845.5	
	-4563.9	307.2	6.7	-3914.9	325.5	-2898.7	
	-4486.1	311.4	6.0	-3900.3	104.0	-3404.9	
	-4477.1	311.6	6.3	-3899.5	119.5	-3458.1	
	-4542.0	307.0	4.7	-3904.9	200.3	-3006.0	
	-4533.0	307.2	5.0	-3904.1	215.7	-3059.1	
	-4364.7	316.8	3.2	-3841.1	-45.7	-4214.5	
	-4355.7	317.0	3.5	-3840.3	-30.2	-4267.6	
	-4420.6	312.4	1.9	-3845.7	50.6	-3815.5	
	-4411.6	312.7	2.2	-3844.9	66.0	-3868.7	
	-4333.7	316.8	1.5	-3830.3	-155.4	-4374.9	
	-4324.8	317.0	1.8	-3829.5	-139.9	-4428.1	
	-4389.6	312.4	0.2	-3834.9	-59.2	-3976.0	
	-4380.6	312.7	0.5	-3834.1	-43.7	-4029.2	
118.	-4498.4	246.2	7.7	-3911.1	-617.1	29674.0	
	-4489.4	246.4	8.0	-3910.3	-636.7	29649.1	
	-4554.3	241.8	6.4	-3915.7	-547.3	29483.8	
	-4545.3	242.1	6.7	-3914.9	-566.8	29458.9	
	-4467.5	246.2	6.0	-3900.3	-527.8	29515.2	
	-4458.5	246.4	6.3	-3899.5	-547.4	29490.2	
	-4523.4	241.8	4.7	-3904.9	-458.0	29324.9	
	-4514.4	242.1	5.0	-3904.1	-477.5	29300.0	
	-4346.0	251.6	3.2	-3841.1	-313.5	29188.0	
	-4337.1	251.9	3.5	-3840.3	-333.1	29163.0	
	-4401.9	247.3	1.9	-3845.7	-243.6	28997.8	
	-4392.9	247.5	2.2	-3844.9	-263.2	28972.8	
	-4315.1	251.6	1.5	-3830.3	-224.2	29029.1	
	-4306.1	251.9	1.8	-3829.5	-243.8	29004.2	
	-4371.0	247.3	0.2	-3834.9	-154.3	28838.9	
	-4362.0	247.5	0.5	-3834.1	-173.9	28813.9	
235.	-4479.8	181.0	7.7	-3911.1	-1511.5	54569.9	
	-4470.8	181.3	8.0	-3910.3	-1566.1	54573.2	
	-4535.7	176.7	6.4	-3915.7	-1299.6	53906.6	
	-4526.7	176.9	6.7	-3914.9	-1354.2	53909.9	
	-4448.8	181.0	6.0	-3900.3	-1223.2	54412.7	
	-4439.9	181.3	6.3	-3899.5	-1277.8	54415.9	
	-4504.7	176.7	4.7	-3904.9	-1011.3	53749.3	
	-4495.7	176.9	5.0	-3904.1	-1065.9	53752.6	
	-4327.4	186.4	3.2	-3841.1	-686.2	55160.4	
	-4318.4	186.7	3.5	-3840.3	-740.8	55163.7	
	-4383.3	182.1	1.9	-3845.7	-474.3	54497.1	
	-4374.3	182.3	2.2	-3844.9	-528.9	54500.3	
	-4296.5	186.5	1.5	-3830.3	-397.8	55003.1	
	-4287.5	186.7	1.8	-3829.5	-452.5	55006.4	
	-4352.4	182.1	0.2	-3834.9	-186.0	54339.8	
	-4343.4	182.3	0.5	-3834.1	-240.6	54343.1	
Asta	55	nod	66	62			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	1.8	353.3	107.0	9544.0	17880.9	-36695.7	
	1.7	353.0	107.2	9541.7	17921.4	-36623.9	
	20.1	360.7	104.2	9479.5	17462.5	-37880.4	
	20.0	360.3	104.4	9477.2	17502.9	-37808.7	
	-17.2	351.7	106.1	9496.2	17720.4	-36383.2	
	-17.3	351.3	106.3	9494.0	17760.9	-36311.5	
	1.1	359.0	103.3	9431.7	17302.0	-37568.0	
	1.0	358.6	103.5	9429.5	17342.4	-37496.2	
	8.0	349.1	100.9	9321.4	16852.0	-35792.6	
	8.0	348.8	101.1	9319.1	16892.5	-35720.8	
	26.4	356.5	98.2	9256.9	16433.5	-36977.4	
	26.3	356.1	98.4	9254.6	16474.0	-36905.6	
	-10.9	347.4	100.0	9273.7	16691.5	-35480.2	
	-11.0	347.1	100.2	9271.4	16732.0	-35408.4	
	7.4	354.8	97.3	9209.1	16273.1	-36664.9	
	7.3	354.4	97.5	9206.9	16313.5	-36593.1	
107.	34.3	239.2	107.0	9544.0	6485.7	-5343.9	
	34.3	238.8	107.2	9541.7	6504.7	-5309.2	
	52.7	246.5	104.2	9479.5	6355.2	-5748.7	
	52.6	246.1	104.4	9477.2	6374.1	-5714.0	
	15.4	237.5	106.1	9496.2	6421.1	-5210.9	
	15.3	237.1	106.3	9494.0	6440.1	-5176.2	
	33.7	244.8	103.3	9431.7	6290.6	-5615.7	
	33.6	244.5	103.5	9429.5	6309.6	-5581.0	
	40.6	234.9	100.9	9321.4	6090.3	-4855.2	
	40.5	234.6	101.1	9319.1	6109.3	-4820.5	
	58.9	242.3	98.2	9256.9	5959.8	-5260.0	

	58.8	241.9	98.4	9254.6	5978.7	-5225.3
	21.6	233.3	100.0	9273.7	6025.7	-4722.1
	21.6	232.9	100.2	9271.4	6044.7	-4687.4
	40.0	240.6	97.3	9209.1	5895.2	-5126.9
	39.9	240.3	97.5	9206.9	5914.1	-5092.2
213.	59.9	149.5	107.0	9544.0	-4640.3	15302.1
	59.8	149.2	107.2	9541.7	-4642.9	15299.7
	78.2	156.8	104.2	9479.5	-4475.9	15686.8
	78.2	156.5	104.4	9477.2	-4478.5	15684.5
	40.9	147.8	106.1	9496.2	-4609.0	15255.7
	40.9	147.5	106.3	9494.0	-4611.6	15253.4
	59.3	155.2	103.3	9431.7	-4444.6	15640.4
	59.2	154.8	103.5	9429.5	-4447.2	15638.1
	66.2	145.3	100.9	9321.4	-4947.5	15046.2
	66.1	144.9	101.1	9319.1	-4950.1	15043.9
	84.5	152.6	98.2	9256.9	-4783.1	15430.9
	84.4	152.3	98.4	9254.6	-4785.7	15428.6
	47.2	143.6	100.0	9273.7	-4916.2	14999.8
	47.1	143.3	100.2	9271.4	-4918.8	14997.5
	65.5	150.9	97.3	9209.1	-4751.8	15384.5
	65.5	150.6	97.5	9206.9	-4754.4	15382.2
Asta	73	nod	80	32		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	576.3	573.6	1.1	281.3	-506.7	-130646.4
	576.3	573.6	1.0	281.5	-512.8	-130646.4
	576.7	573.8	-1.6	240.8	-829.7	-130649.9
	576.7	573.8	-1.7	241.0	-835.8	-130649.9
	596.4	571.4	0.9	287.4	-532.3	-130303.6
	596.4	571.4	0.8	287.6	-538.3	-130303.6
	596.7	571.6	-1.8	247.0	-855.2	-130307.1
	596.7	571.6	-1.9	247.1	-861.3	-130307.1
	555.3	578.1	1.9	258.0	-390.6	-131282.9
	555.3	578.1	1.8	258.1	-396.7	-131282.9
	555.6	578.2	-0.8	217.5	-713.6	-131286.5
	555.6	578.2	-0.9	217.6	-719.6	-131286.5
	575.3	575.9	1.7	264.1	-416.1	-130940.1
	575.3	575.9	1.6	264.3	-422.2	-130940.1
	575.7	576.0	-1.0	223.6	-739.1	-130943.7
	575.7	576.0	-1.1	223.8	-745.2	-130943.7
78.	635.8	426.4	1.1	281.3	-589.8	-91538.5
	635.8	426.4	1.0	281.5	-592.8	-91538.5
	636.1	426.5	-1.6	240.8	-701.1	-91531.7
	636.1	426.5	-1.7	241.0	-704.1	-91531.7
	655.8	424.2	0.9	287.4	-601.3	-91367.1
	655.8	424.2	0.8	287.6	-604.3	-91367.1
	656.1	424.3	-1.8	247.0	-712.6	-91360.2
	656.1	424.3	-1.9	247.1	-715.6	-91360.3
	614.7	430.8	1.9	258.0	-536.3	-91864.9
	614.7	430.8	1.8	258.1	-539.3	-91864.9
	615.0	431.0	-0.8	217.5	-647.6	-91858.1
	615.0	431.0	-0.9	217.6	-650.6	-91858.1
	634.7	428.6	1.7	264.1	-547.8	-91693.5
	634.7	428.6	1.6	264.3	-550.8	-91693.5
	635.1	428.8	-1.0	223.6	-659.1	-91686.7
	635.1	428.8	-1.1	223.8	-662.1	-91686.7
156.	695.2	279.1	1.1	281.3	-672.7	-63839.8
	695.2	279.1	1.0	281.5	-672.6	-63839.8
	695.5	279.3	-1.6	240.8	-572.3	-63822.7
	695.5	279.3	-1.7	241.0	-572.3	-63822.7
	715.2	276.9	0.9	287.4	-670.2	-63839.8
	715.2	276.9	0.8	287.6	-670.1	-63839.8
	715.5	277.1	-1.8	247.0	-569.8	-63822.6
	715.5	277.1	-1.9	247.1	-569.8	-63822.6
	674.1	283.6	1.9	258.0	-682.1	-64060.7
	674.1	283.6	1.8	258.1	-682.1	-64060.7
	674.4	283.7	-0.8	217.5	-581.7	-64043.6
	674.4	283.7	-0.9	217.6	-581.7	-64043.6
	694.1	281.4	1.7	264.1	-679.6	-64060.7
	694.1	281.4	1.6	264.3	-679.6	-64060.7
	694.5	281.5	-1.0	223.6	-579.3	-64043.5
	694.5	281.5	-1.1	223.8	-579.2	-64043.5
Asta	74	nod	81	29		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	2468.8	1342.1	6.2	275.2	139.0	-161336.7
	2468.8	1342.1	6.2	275.2	138.5	-161336.7
	2468.8	1342.1	-1.5	160.1	-775.2	-161335.6
	2468.8	1342.1	-1.5	160.1	-775.7	-161335.6
	2484.8	1342.3	5.5	301.4	41.0	-161374.2
	2484.8	1342.3	5.5	301.4	40.5	-161374.2
	2484.8	1342.3	-2.2	186.4	-873.2	-161373.2
	2484.8	1342.3	-2.2	186.4	-873.6	-161373.2
	2469.2	1341.2	2.2	348.5	-452.1	-161205.1
	2469.2	1341.2	2.2	348.5	-452.5	-161205.1
	2469.2	1341.2	-5.5	233.4	-1366.3	-161204.0
	2469.2	1341.2	-5.5	233.4	-1366.7	-161204.0
	2485.1	1341.5	1.5	374.7	-550.1	-161242.6
	2485.1	1341.5	1.5	374.7	-550.5	-161242.6
	2485.1	1341.5	-6.2	259.6	-1464.2	-161241.5
	2485.1	1341.5	-6.2	259.6	-1464.7	-161241.5

78.	2528.2	1194.8	6.2	275.2	-343.1	-62172.4
	2528.2	1194.8	6.2	275.2	-343.3	-62172.4
	2528.2	1194.8	-1.5	160.1	-657.6	-62171.9
	2528.2	1194.8	-1.5	160.1	-657.8	-62171.9
	2544.2	1195.1	5.5	301.4	-386.8	-62191.1
	2544.2	1195.1	5.5	301.4	-387.0	-62191.1
	2544.2	1195.0	-2.2	186.4	-701.3	-62190.7
	2544.2	1195.0	-2.2	186.4	-701.5	-62190.7
	2528.6	1194.0	2.2	348.5	-624.2	-62106.5
	2528.6	1194.0	2.2	348.5	-624.5	-62106.5
	2528.6	1194.0	-5.5	233.4	-938.7	-62106.1
	2528.6	1194.0	-5.5	233.4	-938.9	-62106.1
	2544.5	1194.2	1.5	374.7	-667.9	-62125.3
	2544.5	1194.2	1.5	374.7	-668.1	-62125.3
	2544.5	1194.2	-6.2	259.6	-982.4	-62124.9
	2544.5	1194.2	-6.2	259.6	-982.6	-62124.9
156.	2587.7	1047.6	6.2	275.2	-827.0	25480.4
	2587.7	1047.6	6.2	275.2	-827.0	25480.4
	2587.6	1047.6	-1.5	160.1	-541.8	25480.2
	2587.6	1047.6	-1.5	160.1	-541.8	25480.2
	2603.6	1047.8	5.5	301.4	-816.4	25480.4
	2603.6	1047.8	5.5	301.4	-816.4	25480.4
	2603.6	1047.8	-2.2	186.4	-531.2	25480.2
	2603.6	1047.8	-2.2	186.4	-531.2	25480.2
	2588.0	1046.7	2.2	348.5	-794.6	25480.5
	2588.0	1046.7	2.2	348.5	-794.6	25480.5
	2588.0	1046.7	-5.5	233.4	-509.3	25480.3
	2588.0	1046.7	-5.5	233.4	-509.3	25480.3
	2603.9	1047.0	1.5	374.7	-784.0	25480.5
	2603.9	1047.0	1.5	374.7	-784.0	25480.5
	2603.9	1047.0	-6.2	259.6	-498.7	25480.3
	2603.9	1047.0	-6.2	259.6	-498.7	25480.3
Asta PROGR. 0.	75 NORM	nod TY	82 TZZ	26 TORS	MY	MZZ
	1069.3	765.0	5.6	52.2	726.3	-138396.5
	1069.3	765.0	5.5	52.3	720.2	-138396.5
	1069.8	765.2	-6.4	-127.9	-706.3	-138401.6
	1069.8	765.2	-6.5	-127.8	-712.4	-138401.6
	1082.5	764.5	5.7	48.1	744.7	-138316.1
	1082.5	764.5	5.7	48.2	738.7	-138316.1
	1082.9	764.6	-6.3	-132.1	-687.9	-138321.2
	1082.9	764.6	-6.4	-131.9	-693.9	-138321.2
	1027.2	771.5	6.4	73.0	840.0	-139391.1
	1027.2	771.5	6.3	73.1	833.9	-139391.1
	1027.6	771.7	-5.7	-107.2	-592.6	-139396.2
	1027.6	771.7	-5.7	-107.0	-598.7	-139396.2
	1040.3	771.0	6.5	68.8	858.4	-139310.7
	1040.3	771.0	6.4	69.0	852.4	-139310.7
	1040.7	771.2	-5.5	-111.3	-574.1	-139315.8
	1040.7	771.2	-5.6	-111.1	-580.2	-139315.8
78.	1128.8	617.7	5.6	52.2	290.5	-84337.5
	1128.8	617.7	5.5	52.3	287.5	-84337.5
	1129.2	617.9	-6.4	-127.9	-202.6	-84329.2
	1129.2	617.9	-6.5	-127.8	-205.6	-84329.2
	1141.9	617.2	5.7	48.1	298.9	-84297.4
	1141.9	617.2	5.7	48.2	295.9	-84297.4
	1142.3	617.4	-6.3	-132.1	-194.2	-84289.1
	1142.3	617.4	-6.4	-131.9	-197.2	-84289.1
	1086.6	624.3	6.4	73.0	343.2	-84840.4
	1086.6	624.3	6.3	73.1	340.2	-84840.4
	1087.0	624.5	-5.7	-107.2	-149.8	-84832.1
	1087.0	624.5	-5.7	-107.0	-152.8	-84832.1
	1099.7	623.8	6.5	68.8	351.6	-84800.3
	1099.7	623.8	6.4	69.0	348.6	-84800.3
	1100.1	623.9	-5.5	-111.3	-141.5	-84792.0
	1100.1	623.9	-5.6	-111.1	-144.4	-84792.0
156.	1188.2	470.5	5.6	52.2	-153.6	-41895.6
	1188.2	470.5	5.5	52.3	-153.5	-41895.6
	1188.6	470.7	-6.4	-127.9	292.9	-41873.8
	1188.6	470.7	-6.5	-127.8	292.9	-41873.8
	1201.3	470.0	5.7	48.1	-155.3	-41895.8
	1201.3	470.0	5.7	48.2	-155.2	-41895.8
	1201.7	470.1	-6.3	-132.1	291.2	-41874.1
	1201.7	470.1	-6.4	-131.9	291.3	-41874.1
	1146.0	477.0	6.4	73.0	-145.2	-41695.6
	1146.0	477.0	6.3	73.1	-145.2	-41695.6
	1146.4	477.2	-5.7	-107.2	301.2	-41673.9
	1146.4	477.2	-5.7	-107.0	301.3	-41673.9
	1159.1	476.5	6.5	68.8	-146.9	-41695.8
	1159.1	476.5	6.4	69.0	-146.8	-41695.8
	1159.5	476.7	-5.5	-111.3	299.6	-41674.1
	1159.5	476.7	-5.6	-111.1	299.6	-41674.1
Asta PROGR. 0.	76 NORM	nod TY	83 TZZ	23 TORS	MY	MZZ
	2464.1	1339.2	5.7	134.5	724.4	-160957.9
	2464.1	1339.2	5.7	134.5	724.0	-160957.9
	2464.1	1339.2	-10.3	-105.5	-1178.5	-160957.1
	2464.1	1339.2	-10.3	-105.5	-1179.0	-160957.1
	2473.9	1339.2	5.1	140.9	635.7	-160969.4

	2473.9	1339.2	5.1	140.9	635.3	-160969.4
	2473.9	1339.2	-10.8	-99.1	-1267.2	-160968.5
	2473.9	1339.2	-10.8	-99.1	-1267.7	-160968.5
	2464.6	1338.0	10.8	15.1	1476.2	-160780.1
	2464.6	1338.0	10.8	15.1	1475.8	-160780.1
	2464.5	1338.0	-5.1	-224.9	-426.7	-160779.2
	2464.5	1338.0	-5.1	-224.9	-427.2	-160779.2
	2474.4	1338.1	10.3	21.5	1387.5	-160791.5
	2474.4	1338.1	10.2	21.5	1387.1	-160791.5
	2474.4	1338.1	-5.7	-218.5	-515.4	-160790.7
	2474.4	1338.1	-5.7	-218.4	-515.9	-160790.7
78.	2523.5	1191.9	5.7	134.5	276.9	-62019.8
	2523.5	1191.9	5.7	134.5	276.6	-62019.8
	2523.5	1191.9	-10.3	-105.5	-377.2	-62019.5
	2523.5	1191.9	-10.3	-105.5	-377.4	-62019.5
	2533.3	1192.0	5.1	140.9	233.8	-62025.5
	2533.3	1192.0	5.1	140.9	233.5	-62025.5
	2533.3	1192.0	-10.8	-99.1	-420.3	-62025.2
	2533.3	1192.0	-10.8	-99.1	-420.5	-62025.2
	2524.0	1190.8	10.8	15.1	629.1	-61930.9
	2524.0	1190.8	10.8	15.1	628.9	-61930.9
	2524.0	1190.8	-5.1	-224.9	-24.9	-61930.5
	2524.0	1190.8	-5.1	-224.9	-25.2	-61930.5
	2533.8	1190.9	10.3	21.5	586.0	-61936.6
	2533.8	1190.9	10.2	21.5	585.8	-61936.6
	2533.8	1190.9	-5.7	-218.5	-68.0	-61936.3
	2533.8	1190.9	-5.7	-218.4	-68.3	-61936.3
156.	2582.9	1044.7	5.7	134.5	-169.7	25406.9
	2582.9	1044.7	5.7	134.5	-169.7	25406.9
	2582.9	1044.7	-10.3	-105.5	425.1	25406.7
	2582.9	1044.7	-10.3	-105.5	425.1	25406.7
	2592.7	1044.8	5.1	140.9	-167.2	25406.9
	2592.7	1044.8	5.1	140.9	-167.2	25406.9
	2592.7	1044.7	-10.8	-99.1	427.7	25406.7
	2592.7	1044.7	-10.8	-99.1	427.7	25406.7
	2583.4	1043.5	10.8	15.1	-219.0	25406.6
	2583.4	1043.5	10.8	15.1	-219.0	25406.6
	2583.4	1043.5	-5.1	-224.9	375.8	25406.5
	2583.4	1043.5	-5.1	-224.9	375.8	25406.5
	2593.2	1043.6	10.3	21.5	-216.5	25406.6
	2593.2	1043.6	10.2	21.5	-216.5	25406.6
	2593.2	1043.6	-5.7	-218.5	378.3	25406.5
	2593.2	1043.6	-5.7	-218.4	378.3	25406.5
Asta	77	84	20			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	1009.9	735.8	9.3	139.1	1095.5	-137195.7
	1009.9	735.8	9.3	139.3	1089.4	-137195.7
	1010.1	735.9	-9.0	-135.0	-1084.7	-137198.0
	1010.1	735.9	-9.0	-134.8	-1090.8	-137198.0
	1016.7	735.5	9.4	137.0	1112.2	-137150.8
	1016.7	735.5	9.4	137.1	1106.2	-137150.9
	1016.9	735.6	-8.9	-137.1	-1068.0	-137153.1
	1016.9	735.6	-8.9	-136.9	-1074.0	-137153.1
	954.2	744.5	8.9	150.4	1040.9	-138539.8
	954.2	744.5	8.9	150.5	1034.9	-138539.8
	954.4	744.6	-9.4	-123.7	-1139.3	-138542.0
	954.4	744.6	-9.4	-123.5	-1145.3	-138542.0
	961.1	744.2	9.0	148.2	1057.7	-138494.9
	961.1	744.2	9.0	148.4	1051.7	-138494.9
	961.3	744.3	-9.3	-125.9	-1122.5	-138497.2
	961.3	744.3	-9.3	-125.7	-1128.6	-138497.2
78.	1069.3	588.6	9.3	139.1	368.7	-85423.7
	1069.3	588.6	9.3	139.3	365.7	-85423.7
	1069.5	588.6	-9.0	-135.0	-381.7	-85420.0
	1069.5	588.6	-9.0	-134.8	-384.7	-85420.0
	1076.2	588.3	9.4	137.0	376.7	-85400.6
	1076.2	588.3	9.4	137.1	373.7	-85400.6
	1076.3	588.4	-8.9	-137.1	-373.8	-85396.8
	1076.3	588.4	-8.9	-136.9	-376.8	-85396.8
	1013.6	597.3	8.9	150.4	343.7	-86094.7
	1013.6	597.3	8.9	150.5	340.7	-86094.7
	1013.8	597.3	-9.4	-123.7	-406.7	-86090.9
	1013.8	597.3	-9.4	-123.5	-409.7	-86091.0
	1020.5	597.0	9.0	148.2	351.7	-86071.5
	1020.5	597.0	9.0	148.4	348.7	-86071.6
	1020.7	597.1	-9.3	-125.9	-398.8	-86067.8
	1020.7	597.1	-9.3	-125.7	-401.8	-86067.8
156.	1128.7	441.3	9.3	139.1	-358.0	-45087.3
	1128.7	441.3	9.3	139.3	-358.0	-45087.3
	1128.9	441.4	-9.0	-135.0	321.3	-45077.5
	1128.9	441.4	-9.0	-134.8	321.4	-45077.5
	1135.6	441.0	9.4	137.0	-358.9	-45085.9
	1135.6	441.0	9.4	137.1	-358.9	-45085.9
	1135.8	441.1	-8.9	-137.1	320.4	-45076.1
	1135.8	441.1	-8.9	-136.9	320.5	-45076.1
	1073.0	450.0	8.9	150.4	-353.4	-45237.1
	1073.0	450.0	8.9	150.5	-353.4	-45237.1
	1073.2	450.1	-9.4	-123.7	325.9	-45227.3
	1073.2	450.1	-9.4	-123.5	326.0	-45227.3
	1079.9	449.7	9.0	148.2	-354.4	-45235.7

	1079.9	449.7	9.0	148.4	-354.3	-45235.7
	1080.1	449.8	-9.3	-125.9	325.0	-45225.9
	1080.1	449.8	-9.3	-125.7	325.0	-45225.9
Asta	78	nod	85	17		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	2469.0	1340.0	11.3	105.2	1393.4	-161077.6
	2469.0	1340.0	11.3	105.2	1392.9	-161077.6
	2469.0	1340.0	-8.8	-195.5	-991.8	-161077.4
	2469.0	1340.0	-8.8	-195.5	-992.3	-161077.4
	2472.6	1340.1	10.7	115.9	1304.0	-161078.4
	2472.6	1340.1	10.7	115.9	1303.6	-161078.4
	2472.6	1340.1	-9.4	-184.8	-1081.1	-161078.2
	2472.6	1340.1	-9.4	-184.8	-1081.6	-161078.2
	2469.5	1338.7	9.4	168.2	1120.6	-160867.0
	2469.5	1338.7	9.4	168.2	1120.2	-160867.0
	2469.5	1338.7	-10.7	-132.5	-1264.5	-160866.8
	2469.5	1338.7	-10.7	-132.5	-1265.0	-160866.8
	2473.1	1338.7	8.8	178.9	1031.3	-160867.9
	2473.1	1338.7	8.8	178.9	1030.9	-160867.9
	2473.1	1338.7	-11.3	-121.8	-1353.8	-160867.7
	2473.1	1338.7	-11.3	-121.8	-1354.3	-160867.7
78.	2528.4	1192.8	11.3	105.2	512.8	-62071.0
	2528.4	1192.8	11.3	105.2	512.6	-62071.0
	2528.4	1192.8	-8.8	-195.5	-307.1	-62070.9
	2528.4	1192.8	-8.8	-195.5	-307.3	-62070.9
	2532.0	1192.8	10.7	115.9	470.5	-62071.4
	2532.0	1192.8	10.7	115.9	470.3	-62071.4
	2532.0	1192.8	-9.4	-184.8	-349.4	-62071.3
	2532.0	1192.8	-9.4	-184.8	-349.6	-62071.3
	2528.9	1191.5	9.4	168.2	388.4	-61965.7
	2528.9	1191.5	9.4	168.2	388.1	-61965.7
	2528.9	1191.5	-10.7	-132.5	-431.5	-61965.6
	2528.9	1191.5	-10.7	-132.5	-431.7	-61965.6
	2532.6	1191.5	8.8	178.9	346.1	-61966.1
	2532.6	1191.5	8.8	178.9	345.8	-61966.1
	2532.6	1191.5	-11.3	-121.8	-473.8	-61966.0
	2532.6	1191.5	-11.3	-121.8	-474.1	-61966.0
156.	2587.8	1045.6	11.3	105.2	-369.0	25423.9
	2587.8	1045.6	11.3	105.2	-369.0	25423.9
	2587.8	1045.6	-8.8	-195.5	376.4	25423.9
	2587.8	1045.6	-8.8	-195.5	376.4	25423.9
	2591.4	1045.6	10.7	115.9	-364.4	25423.9
	2591.4	1045.6	10.7	115.9	-364.4	25423.9
	2591.4	1045.6	-9.4	-184.8	381.0	25423.9
	2591.4	1045.6	-9.4	-184.8	381.0	25423.9
	2588.3	1044.2	9.4	168.2	-342.6	25424.3
	2588.3	1044.2	9.4	168.2	-342.6	25424.3
	2588.3	1044.2	-10.7	-132.5	402.8	25424.2
	2588.3	1044.2	-10.7	-132.5	402.8	25424.2
	2592.0	1044.2	8.8	178.9	-337.9	25424.3
	2592.0	1044.2	8.8	178.9	-337.9	25424.3
	2592.0	1044.2	-11.3	-121.8	407.5	25424.2
	2592.0	1044.2	-11.3	-121.8	407.5	25424.2
Asta	79	nod	86	14		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	999.6	731.3	9.5	147.3	1151.3	-137033.0
	999.6	731.3	9.5	147.5	1145.3	-137033.0
	999.6	731.2	-10.2	-148.5	-1202.3	-137032.4
	999.6	731.2	-10.3	-148.4	-1208.3	-137032.4
	999.9	731.4	9.6	144.9	1168.4	-137071.6
	999.9	731.4	9.6	145.1	1162.3	-137071.5
	999.8	731.4	-10.1	-150.9	-1185.2	-137071.0
	999.8	731.4	-10.2	-150.8	-1191.3	-137071.0
	947.5	739.0	10.2	127.2	1248.9	-138262.3
	947.5	739.0	10.1	127.3	1242.9	-138262.3
	947.5	739.0	-9.6	-168.7	-1104.7	-138261.7
	947.5	739.0	-9.6	-168.5	-1110.7	-138261.7
	947.8	739.2	10.3	124.7	1266.0	-138300.9
	947.8	739.2	10.2	124.9	1259.9	-138300.9
	947.7	739.2	-9.5	-171.1	-1087.6	-138300.3
	947.7	739.2	-9.5	-170.9	-1093.7	-138300.3
78.	1059.0	584.0	9.5	147.3	408.8	-85619.3
	1059.0	584.0	9.5	147.5	405.8	-85619.3
	1059.0	584.0	-10.2	-148.5	-401.3	-85620.4
	1059.0	584.0	-10.3	-148.4	-404.3	-85620.3
	1059.3	584.2	9.6	144.9	416.9	-85642.9
	1059.3	584.2	9.6	145.1	414.0	-85642.9
	1059.2	584.2	-10.1	-150.9	-393.2	-85644.0
	1059.2	584.2	-10.2	-150.8	-396.2	-85644.0
	1006.9	591.8	10.2	127.2	453.6	-86244.3
	1006.9	591.8	10.1	127.3	450.6	-86244.3
	1006.9	591.7	-9.6	-168.7	-356.6	-86245.4
	1006.9	591.7	-9.6	-168.5	-359.6	-86245.4
	1007.2	592.0	10.3	124.7	461.7	-86267.9
	1007.2	592.0	10.2	124.9	458.7	-86267.9
	1007.1	591.9	-9.5	-171.1	-348.4	-86269.0
	1007.1	591.9	-9.5	-170.9	-351.4	-86269.0
156.	1118.4	436.8	9.5	147.3	-333.7	-45767.3
	1118.4	436.8	9.5	147.5	-333.6	-45767.3

		1118.4	436.7	-10.2	-148.5	399.7	-45770.0
		1118.4	436.7	-10.3	-148.4	399.7	-45770.0
		1118.7	437.0	9.6	144.9	-334.4	-45776.0
		1118.7	437.0	9.6	145.1	-334.3	-45776.0
		1118.6	436.9	-10.1	-150.9	399.0	-45778.7
		1118.6	436.9	-10.2	-150.8	399.0	-45778.6
		1066.3	444.5	10.2	127.2	-341.9	-45687.7
		1066.3	444.5	10.1	127.3	-341.8	-45687.7
		1066.3	444.5	-9.6	-168.7	391.4	-45690.4
		1066.3	444.5	-9.6	-168.5	391.5	-45690.4
		1066.6	444.7	10.3	124.7	-342.6	-45696.4
		1066.6	444.7	10.2	124.9	-342.6	-45696.4
		1066.5	444.7	-9.5	-171.1	390.7	-45699.0
		1066.5	444.7	-9.5	-170.9	390.8	-45699.0
Asta	80	nodj	87	11			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	2469.1	1338.7	12.7	310.3	1375.4	-160895.6	
	2469.1	1338.7	12.7	310.3	1375.0	-160895.6	
	2469.1	1338.7	-6.2	27.3	-867.6	-160896.3	
	2469.1	1338.7	-6.2	27.3	-868.0	-160896.2	
	2466.5	1338.6	12.1	318.7	1285.3	-160883.0	
	2466.5	1338.6	12.1	318.7	1284.9	-160883.0	
	2466.5	1338.6	-6.8	35.7	-957.7	-160883.6	
	2466.5	1338.6	-6.8	35.7	-958.1	-160883.6	
	2469.5	1337.6	6.7	147.9	513.5	-160730.4	
	2469.5	1337.6	6.7	147.9	513.1	-160730.4	
	2469.5	1337.6	-12.1	-135.1	-1729.5	-160731.1	
	2469.5	1337.6	-12.1	-135.0	-1729.9	-160731.1	
	2466.9	1337.6	6.2	156.3	423.4	-160717.8	
	2466.9	1337.6	6.2	156.3	422.9	-160717.8	
	2466.9	1337.6	-12.7	-126.6	-1819.6	-160718.4	
	2466.9	1337.6	-12.7	-126.6	-1820.1	-160718.4	
78.	2528.5	1191.5	12.7	310.3	385.9	-61994.5	
	2528.5	1191.5	12.7	310.3	385.7	-61994.5	
	2528.5	1191.5	-6.2	27.3	-384.9	-61994.7	
	2528.5	1191.5	-6.2	27.3	-385.2	-61994.7	
	2525.9	1191.4	12.1	318.7	341.4	-61988.3	
	2525.9	1191.4	12.1	318.7	341.2	-61988.3	
	2525.9	1191.4	-6.8	35.7	-429.4	-61988.5	
	2525.9	1191.4	-6.8	35.7	-429.7	-61988.5	
	2528.9	1190.4	6.7	147.9	-13.5	-61912.0	
	2528.9	1190.4	6.7	147.9	-13.7	-61912.0	
	2528.9	1190.4	-12.1	-135.1	-784.3	-61912.2	
	2528.9	1190.4	-12.1	-135.0	-784.6	-61912.2	
	2526.3	1190.3	6.2	156.3	-58.0	-61905.8	
	2526.3	1190.3	6.2	156.3	-58.2	-61905.8	
	2526.3	1190.3	-12.7	-126.6	-828.8	-61906.0	
	2526.3	1190.3	-12.7	-126.6	-829.0	-61906.0	
156.	2587.9	1044.2	12.7	310.3	-538.8	25395.3	
	2587.9	1044.2	12.7	310.3	-538.8	25395.3	
	2587.9	1044.2	-6.2	27.3	162.5	25395.4	
	2587.9	1044.2	-6.2	27.3	162.5	25395.4	
	2585.3	1044.1	12.1	318.7	-537.7	25395.1	
	2585.3	1044.1	12.1	318.7	-537.7	25395.1	
	2585.3	1044.1	-6.8	35.7	163.7	25395.2	
	2585.3	1044.1	-6.8	35.7	163.7	25395.2	
	2588.3	1043.1	6.7	147.9	-605.4	25394.8	
	2588.3	1043.1	6.7	147.9	-605.4	25394.8	
	2588.3	1043.2	-12.1	-135.1	96.0	25394.9	
	2588.3	1043.2	-12.1	-135.0	96.0	25394.9	
	2585.7	1043.1	6.2	156.3	-604.3	25394.6	
	2585.7	1043.1	6.2	156.3	-604.3	25394.6	
	2585.7	1043.1	-12.7	-126.6	97.1	25394.7	
	2585.7	1043.1	-12.7	-126.6	97.1	25394.7	
Asta	81	nodj	88	8			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	1142.8	790.6	8.3	203.2	827.3	-139195.0	
	1142.8	790.6	8.3	203.4	821.3	-139195.2	
	1142.4	790.5	-7.6	-35.5	-1070.6	-139189.5	
	1142.4	790.5	-7.7	-35.3	-1076.7	-139189.7	
	1138.1	791.7	8.5	200.8	847.9	-139303.7	
	1138.1	791.7	8.4	201.0	841.8	-139303.9	
	1137.7	791.5	-7.5	-37.9	-1050.1	-139298.2	
	1137.7	791.5	-7.5	-37.7	-1056.1	-139298.4	
	1106.1	798.9	7.5	179.6	709.0	-140450.6	
	1106.1	798.9	7.4	179.8	703.0	-140450.7	
	1105.6	798.7	-8.4	-59.1	-1188.9	-140445.1	
	1105.6	798.7	-8.5	-58.9	-1194.9	-140445.2	
	1101.4	800.0	7.6	177.2	729.6	-140559.3	
	1101.4	800.0	7.6	177.3	723.5	-140559.4	
	1100.9	799.8	-8.3	-61.5	-1168.4	-140553.8	
	1100.9	799.8	-8.3	-61.4	-1174.4	-140553.9	
78.	1202.2	643.4	8.3	203.2	178.4	-83139.1	
	1202.2	643.4	8.3	203.4	175.4	-83139.2	
	1201.8	643.2	-7.6	-35.5	-474.8	-83147.5	
	1201.8	643.2	-7.7	-35.3	-477.7	-83147.6	
	1197.5	644.5	8.5	200.8	186.6	-83163.7	
	1197.5	644.5	8.4	201.0	183.6	-83163.8	
	1197.1	644.3	-7.5	-37.9	-466.5	-83172.1	

156.	1197.1	644.3	-7.5	-37.7	-469.5	-83172.2
	1165.5	651.7	7.5	179.6	123.6	-83749.1
	1165.5	651.7	7.4	179.8	120.6	-83749.2
	1165.0	651.5	-8.4	-59.1	-529.5	-83757.5
	1165.0	651.5	-8.5	-58.9	-532.5	-83757.6
	1160.8	652.8	7.6	177.2	131.8	-83773.7
	1160.8	652.8	7.6	177.3	128.9	-83773.8
	1160.3	652.6	-8.3	-61.5	-521.3	-83782.1
	1160.3	652.6	-8.3	-61.4	-524.3	-83782.2
	1261.6	496.1	8.3	203.2	-461.4	-38617.1
	1261.6	496.1	8.3	203.4	-461.4	-38617.1
	1261.2	496.0	-7.6	-35.5	130.2	-38639.4
	1261.2	496.0	-7.7	-35.3	130.3	-38639.5
	1257.0	497.2	8.5	200.8	-465.5	-38557.6
	1257.0	497.2	8.4	201.0	-465.5	-38557.7
	1256.5	497.0	-7.5	-37.9	126.1	-38580.0
	1256.5	497.0	-7.5	-37.7	126.2	-38580.0
	1224.9	504.4	7.5	179.6	-470.9	-38536.6
	1224.9	504.4	7.4	179.8	-470.8	-38536.7
	1224.4	504.2	-8.4	-59.1	120.8	-38559.0
	1224.4	504.3	-8.5	-58.9	120.8	-38559.0
	1220.2	505.5	7.6	177.2	-475.0	-38477.2
	1220.2	505.5	7.6	177.3	-474.9	-38477.2
	1219.7	505.3	-8.3	-61.5	116.7	-38499.6
	1219.7	505.3	-8.3	-61.4	116.7	-38499.6
Asta PROGR. 0.	82	89	5			
	NORM	TYT	TZZ	TORS	MYT	MZZ
	2507.7	1353.5	10.7	-666.2	2906.0	-162864.1
	2507.7	1353.5	10.7	-666.3	2905.2	-162864.1
	2507.7	1353.5	-1.7	-853.1	1416.0	-162865.5
	2507.7	1353.5	-1.8	-853.2	1415.1	-162865.5
	2499.3	1353.4	9.7	-655.5	2774.9	-162848.0
	2499.3	1353.4	9.7	-655.6	2774.1	-162848.0
	2499.3	1353.4	-2.8	-842.4	1284.9	-162849.3
	2499.3	1353.4	-2.8	-842.5	1284.0	-162849.4
	2508.1	1352.7	2.9	-412.5	1771.8	-162743.5
	2508.1	1352.7	2.9	-412.6	1771.0	-162743.6
	2508.1	1352.7	-9.6	-599.5	281.8	-162744.9
	2508.1	1352.7	-9.6	-599.6	280.9	-162744.9
	2499.7	1352.6	1.8	-401.8	1640.7	-162727.4
	2499.7	1352.6	1.8	-401.9	1639.9	-162727.5
	2499.7	1352.6	-10.7	-588.8	150.7	-162728.8
	2499.7	1352.6	-10.7	-588.8	149.8	-162728.8
78.	2567.1	1206.2	10.7	-666.2	2066.1	-62809.1
	2567.1	1206.2	10.7	-666.3	2065.7	-62809.1
	2567.1	1206.2	-1.7	-853.1	1552.7	-62809.7
	2567.1	1206.2	-1.8	-853.2	1552.3	-62809.7
	2558.7	1206.1	9.7	-655.5	2016.3	-62799.6
	2558.7	1206.1	9.7	-655.6	2015.8	-62799.6
	2558.7	1206.1	-2.8	-842.4	1502.9	-62800.2
	2558.7	1206.1	-2.8	-842.5	1502.5	-62800.2
	2567.5	1205.4	2.9	-412.5	1547.0	-62748.5
	2567.5	1205.4	2.9	-412.6	1546.5	-62748.5
	2567.5	1205.5	-9.6	-599.5	1033.6	-62749.0
	2567.5	1205.5	-9.6	-599.6	1033.2	-62749.0
	2559.1	1205.4	1.8	-401.8	1497.2	-62739.0
	2559.1	1205.4	1.8	-401.9	1496.7	-62739.0
	2559.1	1205.4	-10.7	-588.8	983.8	-62739.5
	2559.1	1205.4	-10.7	-588.8	983.4	-62739.5
156.	2626.5	1059.0	10.7	-666.2	1222.4	25733.9
	2626.5	1059.0	10.7	-666.3	1222.3	25733.9
	2626.5	1059.0	-1.7	-853.1	1685.7	25734.2
	2626.5	1059.0	-1.8	-853.2	1685.6	25734.2
	2618.1	1058.9	9.7	-655.5	1253.8	25736.9
	2618.1	1058.9	9.7	-655.6	1253.8	25736.9
	2618.1	1058.9	-2.8	-842.4	1717.2	25737.1
	2618.1	1058.9	-2.8	-842.5	1717.1	25737.1
	2626.9	1058.2	2.9	-412.5	1326.0	25735.5
	2626.9	1058.2	2.9	-412.6	1325.9	25735.5
	2626.9	1058.2	-9.6	-599.5	1789.3	25735.7
	2626.9	1058.2	-9.6	-599.6	1789.3	25735.7
	2618.5	1058.1	1.8	-401.8	1357.4	25738.4
	2618.5	1058.1	1.8	-401.9	1357.4	25738.4
	2618.5	1058.1	-10.7	-588.8	1820.8	25738.6
	2618.5	1058.1	-10.7	-588.8	1820.7	25738.6
Asta PROGR. 0.	83	90	66			
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-29.4	-532.1	100.7	-995.2	34115.9	98577.7
	-32.1	-531.9	101.0	-997.7	34130.6	98573.5
	32.3	-530.1	103.4	-1020.4	34455.2	98326.2
	29.5	-529.9	103.7	-1022.9	34469.9	98322.0
	-29.2	-528.8	92.8	-1032.5	33216.4	97982.3
	-32.0	-528.6	93.2	-1035.0	33231.1	97978.2
	32.4	-526.8	95.5	-1057.7	33555.8	97730.8
	29.7	-526.6	95.9	-1060.2	33570.5	97726.7
	-28.8	-502.7	74.1	-1060.2	30468.4	93518.5
	-31.5	-502.5	74.5	-1062.8	30483.1	93514.3
	32.9	-500.7	76.9	-1085.4	30807.8	93266.9
	30.2	-500.5	77.2	-1088.0	30822.5	93262.8

100.	-28.6	-499.4	66.3	-1097.6	29569.0	92923.1
	-31.3	-499.2	66.6	-1100.1	29583.7	92919.0
	33.1	-497.4	69.0	-1122.7	29908.3	92671.6
	30.3	-497.2	69.4	-1125.3	29923.0	92667.5
	-29.4	-589.5	100.7	-995.2	24060.2	42782.6
	-32.1	-589.3	101.0	-997.7	24040.5	42796.4
	32.3	-587.5	103.4	-1020.4	24213.5	42614.8
	29.5	-587.3	103.7	-1022.9	24193.8	42628.5
	-29.2	-586.2	92.8	-1032.5	23941.8	42517.0
	-32.0	-586.0	93.2	-1035.0	23922.1	42530.7
	32.4	-584.2	95.5	-1057.7	24095.1	42349.1
	29.7	-584.0	95.9	-1060.2	24075.5	42362.9
	-28.8	-560.1	74.1	-1060.2	23029.1	40645.4
	-31.5	-559.9	74.5	-1062.8	23009.4	40659.2
	32.9	-558.1	76.9	-1085.4	23182.4	40477.6
	30.2	-557.9	77.2	-1088.0	23162.8	40491.3
	-28.6	-556.8	66.3	-1097.6	22910.7	40379.8
	-31.3	-556.6	66.6	-1100.1	22891.1	40393.5
	33.1	-554.8	69.0	-1122.7	23064.0	40211.9
	30.3	-554.6	69.4	-1125.3	23044.4	40225.7
199.	-29.4	-646.9	100.7	-995.2	13805.7	-18927.8
	-32.1	-646.7	101.0	-997.7	13751.7	-18896.2
	32.3	-644.8	103.4	-1020.4	14085.9	-18655.7
	29.5	-644.7	103.7	-1022.9	14031.9	-18624.0
	-29.2	-643.6	92.8	-1032.5	14468.4	-18863.8
	-32.0	-643.4	93.2	-1035.0	14414.4	-18832.1
	32.4	-641.5	95.5	-1057.7	14748.7	-18591.7
	29.7	-641.4	95.9	-1060.2	14694.7	-18560.0
	-28.8	-617.5	74.1	-1060.2	15475.5	-18096.6
	-31.5	-617.3	74.5	-1062.8	15421.5	-18064.9
	32.9	-615.4	76.9	-1085.4	15755.8	-17824.4
	30.2	-615.3	77.2	-1088.0	15701.8	-17792.8
	-28.6	-614.2	66.3	-1097.6	16138.3	-18032.6
	-31.3	-614.0	66.6	-1100.1	16084.3	-18000.9
	33.1	-612.1	69.0	-1122.7	16418.5	-17760.4
	30.3	-612.0	69.4	-1125.3	16364.5	-17728.7
Asta PROGR. 0.	84	nod	1	90		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-32.9	793.1	0.8	0.0	0.0	0.0
	-33.3	793.1	0.8	0.0	0.0	0.0
	-27.7	793.1	0.9	0.0	0.0	0.0
	-28.1	793.1	0.9	0.0	0.0	0.0
	-117.2	793.0	0.8	0.0	0.0	0.0
	-117.6	793.0	0.8	0.0	0.0	0.0
	-112.0	793.0	0.8	0.0	0.0	0.0
	-112.4	793.0	0.8	0.0	0.0	0.0
	-279.0	791.7	0.7	0.0	0.0	0.0
	-279.4	791.7	0.7	0.0	0.0	0.0
	-273.8	791.7	0.8	0.0	0.0	0.0
	-274.2	791.7	0.8	0.0	0.0	0.0
	-363.3	791.6	0.7	0.0	0.0	0.0
	-363.6	791.6	0.7	0.0	0.0	0.0
	-358.1	791.6	0.8	0.0	0.0	0.0
	-358.5	791.6	0.8	0.0	0.0	0.0
450.	354.1	-164.7	0.8	0.0	-346.3	143326.1
	353.7	-164.7	0.8	0.0	-345.9	143326.3
	359.3	-164.7	0.9	0.0	-387.7	143327.8
	358.9	-164.7	0.9	0.0	-387.3	143328.0
	269.8	-164.8	0.8	0.0	-341.1	143287.2
	269.5	-164.8	0.8	0.0	-340.7	143287.4
	275.0	-164.8	0.8	0.0	-382.5	143288.9
	274.7	-164.8	0.8	0.0	-382.1	143289.2
	108.1	-166.1	0.7	0.0	-325.4	142691.9
	107.7	-166.1	0.7	0.0	-325.0	142692.2
	113.2	-166.1	0.8	0.0	-366.8	142693.6
	112.9	-166.1	0.8	0.0	-366.4	142693.9
	23.8	-166.2	0.7	0.0	-320.2	142653.0
	23.4	-166.2	0.7	0.0	-319.8	142653.3
	29.0	-166.2	0.8	0.0	-361.6	142654.8
	28.6	-166.2	0.8	0.0	-361.2	142655.0
901.	761.1	-1171.8	0.8	0.0	-692.6	-155753.9
	760.7	-1171.8	0.8	0.0	-691.7	-155753.5
	766.3	-1171.8	0.9	0.0	-775.4	-155750.5
	765.9	-1171.8	0.9	0.0	-774.5	-155750.0
	676.8	-1171.9	0.8	0.0	-682.2	-155831.7
	676.4	-1171.9	0.8	0.0	-681.4	-155831.2
	682.0	-1171.9	0.8	0.0	-765.0	-155828.3
	681.6	-1171.9	0.8	0.0	-764.2	-155827.8
	515.0	-1173.3	0.7	0.0	-650.8	-157022.2
	514.6	-1173.3	0.7	0.0	-649.9	-157021.8
	520.2	-1173.3	0.8	0.0	-733.6	-157018.8
	519.8	-1173.3	0.8	0.0	-732.7	-157018.4
	430.7	-1173.3	0.7	0.0	-640.4	-157100.0
	430.3	-1173.3	0.7	0.0	-639.5	-157099.6
	435.9	-1173.3	0.8	0.0	-723.2	-157096.6
	435.5	-1173.3	0.8	0.0	-722.3	-157096.2
Asta PROGR. 0.	85	nod	90	2		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	534.2	538.7	5.0	-890.3	2872.7	-149958.9

	534.2	538.7	5.0	-890.2	2860.5	-149955.8
	533.3	538.4	-3.6	-1023.0	1844.4	-149934.2
	533.3	538.3	-3.7	-1022.9	1832.1	-149931.1
	468.4	534.6	4.7	-880.6	2823.0	-150006.6
	468.4	534.6	4.6	-880.5	2810.7	-150003.5
	467.4	534.3	-4.0	-1013.4	1794.6	-149981.9
	467.4	534.2	-4.1	-1013.3	1782.3	-149978.8
	508.5	547.6	3.6	-839.8	2665.4	-151398.4
	508.5	547.6	3.5	-839.7	2653.1	-151395.3
	507.5	547.2	-5.1	-972.5	1637.0	-151373.7
	507.5	547.2	-5.2	-972.4	1624.7	-151370.6
	442.6	543.5	3.2	-830.2	2615.6	-151446.1
	442.6	543.5	3.1	-830.0	2603.3	-151443.0
	441.6	543.1	-5.5	-962.9	1587.2	-151421.4
	441.6	543.1	-5.6	-962.8	1574.9	-151418.3
78.	593.8	391.0	5.0	-890.3	2478.6	-113742.3
	593.8	391.0	5.0	-890.2	2472.5	-113740.6
	592.8	390.7	-3.6	-1023.0	2128.6	-113752.7
	592.8	390.7	-3.7	-1022.9	2122.5	-113751.0
	527.9	386.9	4.7	-880.6	2459.1	-114111.0
	528.0	386.9	4.6	-880.5	2453.0	-114109.4
	527.0	386.6	-4.0	-1013.4	2109.1	-114121.4
	527.0	386.6	-4.1	-1013.3	2103.0	-114119.8
	568.0	399.9	3.6	-839.8	2385.3	-114534.0
	568.0	399.9	3.5	-839.7	2379.2	-114532.4
	567.1	399.6	-5.1	-972.5	2035.4	-114544.4
	567.1	399.6	-5.2	-972.4	2029.2	-114542.8
	502.2	395.8	3.2	-830.2	2365.8	-114902.8
	502.2	395.8	3.1	-830.0	2359.7	-114901.1
	501.2	395.5	-5.5	-962.9	2015.8	-114913.2
156.	501.2	395.5	-5.6	-962.8	2009.7	-114911.5
	643.8	267.0	5.0	-890.3	2083.1	-88031.0
	643.8	267.0	5.0	-890.2	2083.1	-88030.7
	642.9	266.7	-3.6	-1023.0	2412.2	-88063.2
	642.9	266.7	-3.7	-1022.9	2412.2	-88063.0
	578.0	262.9	4.7	-880.6	2093.8	-88720.8
	578.0	262.9	4.6	-880.5	2093.8	-88720.5
	577.0	262.6	-4.0	-1013.4	2422.9	-88753.0
	577.0	262.6	-4.1	-1013.3	2422.9	-88752.8
	618.1	275.9	3.6	-839.8	2106.1	-88415.3
	618.1	275.9	3.5	-839.7	2106.1	-88415.0
	617.1	275.6	-5.1	-972.5	2435.1	-88447.5
	617.1	275.6	-5.2	-972.4	2435.1	-88447.3
	552.2	271.8	3.2	-830.2	2116.8	-89105.0
	552.2	271.8	3.1	-830.0	2116.8	-89104.8
	551.2	271.5	-5.5	-962.9	2445.8	-89137.3
	551.2	271.5	-5.6	-962.8	2445.8	-89137.1
Asta	98	nod	65	80		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	24.6	565.4	-244.8	4749.1	-5617.5	-184.5
	31.7	565.5	-244.8	4749.1	-5617.2	-184.6
	-32.0	565.8	-244.5	4748.5	-5657.1	-154.7
	-24.9	565.8	-244.5	4748.5	-5656.8	-154.9
	24.5	573.0	-255.0	4785.5	-6039.4	-95.1
	31.6	573.0	-255.0	4785.5	-6039.0	-95.3
	-32.1	573.4	-254.7	4784.9	-6079.0	-65.4
	-25.0	573.4	-254.6	4784.9	-6078.6	-65.5
	25.0	550.3	-223.5	4681.7	-4741.4	-385.8
	32.1	550.4	-223.5	4681.7	-4741.0	-386.0
	-31.6	550.7	-223.2	4681.1	-4781.0	-356.1
	-24.5	550.7	-223.2	4681.1	-4780.6	-356.3
	24.9	557.9	-233.7	4718.1	-5163.2	-296.5
	32.0	557.9	-233.7	4718.1	-5162.9	-296.6
	-31.7	558.3	-233.4	4717.5	-5202.9	-266.8
	-24.6	558.3	-233.4	4717.5	-5202.5	-266.9
81.	24.6	518.9	-244.8	4749.1	14160.8	43620.7
	31.7	518.9	-244.8	4749.1	14159.8	43621.1
	-32.0	519.3	-244.5	4748.5	14097.3	43679.0
	-24.9	519.3	-244.5	4748.5	14096.2	43679.4
	24.5	526.5	-255.0	4785.5	14561.9	44320.8
	31.6	526.5	-255.0	4785.5	14560.8	44321.2
	-32.1	526.8	-254.7	4784.9	14498.3	44379.1
	-25.0	526.8	-254.6	4784.9	14497.2	44379.5
	25.0	503.8	-223.5	4681.7	13319.5	42205.0
	32.1	503.8	-223.5	4681.7	13318.5	42205.4
	-31.6	504.2	-223.2	4681.1	13256.0	42263.3
	-24.5	504.2	-223.2	4681.1	13254.9	42263.7
	24.9	511.4	-233.7	4718.1	13720.6	42905.1
	32.0	511.4	-233.7	4718.1	13719.5	42905.5
	-31.7	511.7	-233.4	4717.5	13657.0	42963.4
	-24.6	511.7	-233.4	4717.5	13655.9	42963.8
162.	24.6	472.4	-244.8	4749.1	33939.5	83667.7
	31.7	472.4	-244.8	4749.1	33937.1	83668.6
	-32.0	472.7	-244.5	4748.5	33850.9	83754.8
	-24.9	472.7	-244.5	4748.5	33848.5	83755.7
	24.5	479.9	-255.0	4785.5	35163.4	84978.5
	31.6	479.9	-255.0	4785.5	35160.9	84979.5
	-32.1	480.3	-254.7	4784.9	35074.8	85065.7
	-25.0	480.3	-254.6	4784.9	35072.3	85066.6
	25.0	457.3	-223.5	4681.7	31381.2	81032.8

		32.1	457.3	-223.5	4681.7	31378.8	81033.7
		-31.6	457.6	-223.2	4681.1	31292.6	81119.9
		-24.5	457.6	-223.2	4681.1	31290.2	81120.8
		24.9	464.8	-233.7	4718.1	32605.1	82343.7
		32.0	464.8	-233.7	4718.1	32602.6	82344.6
		-31.7	465.2	-233.4	4717.5	32516.5	82430.8
		-24.6	465.2	-233.4	4717.5	32514.1	82431.7
Asta	99	nod	80	81			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-24.5	-978.8	428.4	-2703.3	34514.4	83739.6	
	-31.7	-978.8	428.4	-2703.3	34516.8	83738.7	
	32.0	-977.5	431.4	-2702.7	34689.5	83676.8	
	24.9	-977.5	431.4	-2702.7	34691.9	83675.9	
	-24.5	-992.8	442.8	-2739.5	35768.9	85044.7	
	-31.6	-992.7	442.8	-2739.5	35771.4	85043.8	
	32.1	-991.4	445.8	-2738.9	35944.0	84981.9	
	25.0	-991.4	445.8	-2738.9	35946.5	84981.0	
	-24.9	-940.7	390.4	-2638.4	31829.3	81129.6	
	-32.1	-940.7	390.5	-2638.4	31831.7	81128.7	
	31.6	-939.4	393.5	-2637.8	32004.4	81066.8	
	24.5	-939.3	393.5	-2637.8	32006.9	81065.9	
	-24.9	-954.6	404.8	-2674.6	33083.9	82434.7	
	-32.0	-954.6	404.8	-2674.6	33086.3	82433.8	
	31.7	-953.3	407.8	-2674.0	33259.0	82371.9	
	24.6	-953.3	407.9	-2674.0	33261.4	82371.0	
81.	-24.5	-1025.4	428.4	-2703.3	-198.2	2590.2	
	-31.7	-1025.4	428.4	-2703.3	-197.1	2589.8	
	32.0	-1024.1	431.4	-2702.7	-268.8	2634.6	
	24.9	-1024.1	431.4	-2702.7	-267.7	2634.2	
	-24.5	-1039.3	442.8	-2739.5	-106.2	2768.1	
	-31.6	-1039.3	442.8	-2739.5	-105.1	2767.7	
	32.1	-1038.0	445.8	-2738.9	-176.8	2812.5	
	25.0	-1038.0	445.8	-2738.9	-175.7	2812.1	
	-24.9	-987.2	390.4	-2638.4	342.2	3323.2	
	-32.1	-987.2	390.5	-2638.4	343.3	3322.8	
	31.6	-985.9	393.5	-2637.8	271.5	3367.6	
	24.5	-985.9	393.5	-2637.8	272.6	3367.2	
	-24.9	-1001.2	404.8	-2674.6	434.2	3501.2	
	-32.0	-1001.2	404.8	-2674.6	435.3	3500.8	
	31.7	-999.9	407.8	-2674.0	363.6	3545.6	
	24.6	-999.9	407.9	-2674.0	364.6	3545.2	
162.	-24.5	-1071.9	428.4	-2703.3	-34775.5	-82108.0	
	-31.7	-1071.9	428.4	-2703.3	-34775.8	-82107.9	
	32.0	-1070.6	431.4	-2702.7	-35089.3	-81958.5	
	24.9	-1070.6	431.4	-2702.7	-35089.6	-81958.4	
	-24.5	-1085.9	442.8	-2739.5	-35846.1	-83057.2	
	-31.6	-1085.9	442.8	-2739.5	-35846.3	-83057.1	
	32.1	-1084.6	445.8	-2738.9	-36159.9	-82907.6	
	25.0	-1084.6	445.8	-2738.9	-36160.1	-82907.5	
	-24.9	-1033.8	390.4	-2638.4	-31282.8	-78462.6	
	-32.1	-1033.8	390.5	-2638.4	-31283.0	-78462.5	
	31.6	-1032.5	393.5	-2637.8	-31596.6	-78313.0	
	24.5	-1032.5	393.5	-2637.8	-31596.8	-78312.9	
	-24.9	-1047.7	404.8	-2674.6	-32353.3	-79411.8	
	-32.0	-1047.7	404.8	-2674.6	-32353.6	-79411.7	
	31.7	-1046.4	407.8	-2674.0	-32667.1	-79262.2	
	24.6	-1046.4	407.9	-2674.0	-32667.4	-79262.1	
Asta	100	nod	81	82			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	18.9	956.3	-417.8	2093.6	-35138.6	-81660.8	
	26.0	956.3	-417.8	2093.6	-35138.4	-81660.9	
	-26.4	960.1	-411.8	2092.9	-34707.4	-81935.9	
	-19.3	960.1	-411.7	2092.9	-34707.2	-81936.0	
	19.0	965.0	-427.8	2101.0	-36090.5	-82629.6	
	26.1	965.0	-427.8	2101.0	-36090.2	-82629.7	
	-26.4	968.8	-421.8	2100.3	-35659.3	-82904.6	
	-19.2	968.8	-421.8	2100.3	-35659.0	-82904.7	
	19.3	907.7	-362.9	1990.8	-31103.6	-78162.7	
	26.4	907.7	-362.9	1990.8	-31103.3	-78162.8	
	-26.0	911.5	-356.9	1990.1	-30672.4	-78437.7	
	-18.9	911.5	-356.9	1990.1	-30672.1	-78437.8	
	19.3	916.4	-373.0	1998.2	-32055.5	-79131.5	
	26.5	916.4	-372.9	1998.2	-32055.2	-79131.6	
	-26.0	920.2	-366.9	1997.5	-31624.3	-79406.5	
	-18.9	920.2	-366.9	1997.5	-31624.0	-79406.6	
81.	18.9	909.7	-417.8	2093.6	-1292.3	-6080.5	
	26.0	909.8	-417.8	2093.6	-1293.4	-6080.1	
	-26.4	913.5	-411.8	2092.9	-1351.7	-6049.2	
	-19.3	913.5	-411.7	2092.9	-1352.8	-6048.8	
	19.0	918.4	-427.8	2101.0	-1433.7	-6347.8	
	26.1	918.4	-427.8	2101.0	-1434.8	-6347.4	
	-26.4	922.2	-421.8	2100.3	-1493.1	-6316.5	
	-19.2	922.2	-421.8	2100.3	-1494.2	-6316.1	
	19.3	861.1	-362.9	1990.8	-1826.2	-6803.6	
	26.4	861.1	-362.9	1990.8	-1827.3	-6803.2	
	-26.0	864.9	-356.9	1990.1	-1885.6	-6772.3	
	-18.9	864.9	-356.9	1990.1	-1886.7	-6771.9	
	19.3	869.8	-373.0	1998.2	-1967.6	-7070.8	
	26.5	869.8	-372.9	1998.2	-1968.7	-7070.4	

	-26.0	873.6	-366.9	1997.5	-2027.0	-7039.5
	-18.9	873.6	-366.9	1997.5	-2028.1	-7039.1
162.	18.9	863.2	-417.8	2093.6	32435.0	65483.3
	26.0	863.2	-417.8	2093.6	32432.5	65484.2
	-26.4	867.0	-411.8	2092.9	31885.8	65820.2
	-19.3	867.0	-411.7	2092.9	31883.3	65821.1
	19.0	871.9	-427.8	2101.0	33104.1	65917.5
	26.1	871.9	-427.8	2101.0	33101.6	65918.4
	-26.4	875.6	-421.8	2100.3	32554.9	66254.5
	-19.2	875.6	-421.8	2100.3	32552.4	66255.4
	19.3	814.6	-362.9	1990.8	27569.4	61042.5
	26.4	814.6	-362.9	1990.8	27567.0	61043.4
	-26.0	818.3	-356.9	1990.1	27020.2	61379.4
	-18.9	818.3	-356.9	1990.1	27017.8	61380.3
	19.3	823.2	-373.0	1998.2	28238.5	61476.7
	26.5	823.2	-372.9	1998.2	28236.1	61477.6
	-26.0	827.0	-366.9	1997.5	27689.4	61813.7
	-18.9	827.0	-366.9	1997.5	27686.9	61814.6
Asta	101	nod1	82	83		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-18.9	-788.9	396.1	-2109.6	31850.9	65791.7
	-26.0	-788.9	396.1	-2109.6	31853.4	65790.8
	26.4	-784.4	404.4	-2108.9	32471.2	65462.7
	19.3	-784.3	404.5	-2108.9	32473.6	65461.8
	-19.0	-793.3	403.2	-2117.8	32498.0	66230.4
	-26.1	-793.3	403.2	-2117.8	32500.4	66229.5
	26.4	-788.8	411.6	-2117.1	33118.2	65901.4
	19.2	-788.8	411.6	-2117.1	33120.7	65900.5
	-19.3	-732.6	333.2	-2007.7	26916.3	61368.0
	-26.4	-732.6	333.2	-2007.7	26918.7	61367.1
	26.1	-728.0	341.6	-2007.0	27536.5	61039.0
	18.9	-728.0	341.6	-2007.0	27539.0	61038.1
	-19.3	-737.0	340.3	-2015.9	27563.3	61806.7
	-26.5	-737.0	340.3	-2015.9	27565.8	61805.8
	26.0	-732.5	348.7	-2015.2	28183.6	61477.7
	18.9	-732.5	348.7	-2015.2	28186.0	61476.8
81.	-18.9	-835.4	396.1	-2109.6	299.3	809.7
	-26.0	-835.4	396.1	-2109.6	300.4	809.3
	26.4	-830.9	404.4	-2108.9	241.4	847.3
	19.3	-830.9	404.5	-2108.9	242.5	847.0
	-19.0	-839.9	403.2	-2117.8	371.1	889.1
	-26.1	-839.9	403.2	-2117.8	372.2	888.7
	26.4	-835.3	411.6	-2117.1	313.2	926.8
	19.2	-835.3	411.6	-2117.1	314.3	926.4
	-19.3	-779.1	333.2	-2007.7	-454.7	-345.4
	-26.4	-779.1	333.2	-2007.7	-453.6	-345.8
	26.1	-774.6	341.6	-2007.0	-512.6	-307.7
	18.9	-774.6	341.6	-2007.0	-511.5	-308.1
	-19.3	-783.6	340.3	-2015.9	-383.0	-265.9
	-26.5	-783.6	340.3	-2015.9	-381.9	-266.3
	26.0	-779.0	348.7	-2015.2	-440.9	-228.3
	18.9	-779.0	348.7	-2015.2	-439.8	-228.7
162.	-18.9	-882.0	396.1	-2109.6	-32203.6	-69350.6
	-26.0	-882.0	396.1	-2109.6	-32203.9	-69350.5
	26.4	-877.4	404.4	-2108.9	-32938.6	-68947.0
	19.3	-877.4	404.5	-2108.9	-32938.9	-68946.9
	-19.0	-886.4	403.2	-2117.8	-32707.1	-69630.5
	-26.1	-886.4	403.2	-2117.8	-32707.4	-69630.4
	26.4	-881.9	411.6	-2117.1	-33442.1	-69226.8
	19.2	-881.9	411.6	-2117.1	-33442.4	-69226.7
	-19.3	-825.7	333.2	-2007.7	-26875.5	-64400.8
	-26.4	-825.7	333.2	-2007.7	-26875.7	-64400.7
	26.1	-821.1	341.6	-2007.0	-27610.5	-63997.1
	18.9	-821.1	341.6	-2007.0	-27610.7	-63997.0
	-19.3	-830.1	340.3	-2015.9	-27379.0	-64680.6
	-26.5	-830.1	340.3	-2015.9	-27379.2	-64680.5
	26.0	-825.6	348.7	-2015.2	-28114.0	-64277.0
	18.9	-825.6	348.7	-2015.2	-28114.2	-64276.9
Asta	102	nod1	83	84		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	26.9	900.5	-417.9	2236.2	-33284.2	-68856.0
	34.0	900.5	-417.9	2236.2	-33283.9	-68856.1
	-33.9	906.6	-407.4	2235.9	-32468.6	-69336.6
	-26.8	906.6	-407.4	2235.9	-32468.4	-69336.7
	27.0	903.7	-422.1	2240.8	-33686.4	-69169.8
	34.1	903.7	-422.0	2240.8	-33686.2	-69169.9
	-33.9	909.8	-411.6	2240.4	-32870.9	-69650.4
	-26.7	909.8	-411.6	2240.4	-32870.6	-69650.5
	26.7	834.8	-342.5	2097.0	-27554.2	-64024.5
	33.9	834.8	-342.5	2097.0	-27553.9	-64024.5
	-34.1	840.9	-332.1	2096.7	-26738.7	-64505.1
	-27.0	840.9	-332.0	2096.7	-26738.4	-64505.2
	26.8	837.9	-346.7	2101.5	-27956.4	-64338.3
	33.9	837.9	-346.7	2101.5	-27956.2	-64338.3
	-34.1	844.0	-336.2	2101.2	-27140.9	-64818.9
	-26.9	844.0	-336.2	2101.2	-27140.6	-64819.0
81.	26.9	853.9	-417.9	2236.2	-32.1	1288.1
	34.0	854.0	-417.9	2236.2	-33.2	1288.5
	-33.9	860.1	-407.4	2235.9	-61.9	1303.5

	-26.8	860.1	-407.4	2235.9	-63.0	1303.9
	27.0	857.1	-422.1	2240.8	-96.6	1227.4
	34.1	857.1	-422.0	2240.8	-97.7	1227.8
	-33.9	863.2	-411.6	2240.4	-126.4	1242.8
	-26.7	863.2	-411.6	2240.4	-127.5	1243.2
	26.7	788.2	-342.5	2097.0	672.3	2362.2
	33.9	788.2	-342.5	2097.0	671.2	2362.6
	-34.1	794.3	-332.1	2096.7	642.5	2377.6
	-27.0	794.3	-332.0	2096.7	641.4	2377.9
	26.8	791.3	-346.7	2101.5	607.8	2301.5
	33.9	791.3	-346.7	2101.5	606.7	2301.9
	-34.1	797.4	-336.2	2101.2	578.0	2316.9
	-26.9	797.4	-336.2	2101.2	576.9	2317.3
162.	26.9	807.4	-417.9	2236.2	34315.4	69305.6
	34.0	807.4	-417.9	2236.2	34313.0	69306.5
	-33.9	813.5	-407.4	2235.9	33442.9	69815.0
	-26.8	813.5	-407.4	2235.9	33440.5	69815.9
	27.0	810.5	-422.1	2240.8	34588.6	69498.1
	34.1	810.5	-422.0	2240.8	34586.1	69499.0
	-33.9	816.6	-411.6	2240.4	33716.1	70007.5
	-26.7	816.6	-411.6	2240.4	33713.7	70008.4
	26.7	741.6	-342.5	2097.0	27800.7	63347.0
	33.9	741.6	-342.5	2097.0	27798.2	63347.9
	-34.1	747.7	-332.1	2096.7	26928.2	63856.4
	-27.0	747.7	-332.0	2096.7	26925.7	63857.3
	26.8	744.7	-346.7	2101.5	28073.9	63539.5
	33.9	744.8	-346.7	2101.5	28071.4	63540.4
	-34.1	750.9	-336.2	2101.2	27201.4	64048.9
	-26.9	750.9	-336.2	2101.2	27198.9	64049.8
Asta	108	nod	89	90		
PROGR.	NORM	TTY	TZZ	TORS	MYT	MZZ
0.	36.2	1234.1	-484.1	4766.9	-40702.1	-94321.0
	39.6	1234.2	-484.1	4767.0	-40701.6	-94322.9
	-39.7	1237.3	-477.5	4767.9	-40136.6	-94602.3
	-36.4	1237.3	-477.5	4768.0	-40136.1	-94604.2
	36.0	1226.8	-472.5	4759.7	-39785.7	-93713.9
	39.4	1226.8	-472.5	4759.8	-39785.2	-93715.8
	-39.9	1229.9	-465.9	4760.7	-39220.2	-93995.2
	-36.6	1229.9	-465.9	4760.8	-39219.7	-93997.1
	35.5	1187.8	-442.9	4591.7	-37579.2	-91122.4
	38.8	1187.8	-443.0	4591.7	-37578.7	-91124.3
	-40.5	1190.9	-436.4	4592.6	-37013.7	-91403.7
	-37.2	1191.0	-436.4	4592.7	-37013.2	-91405.6
	35.2	1180.4	-431.3	4584.4	-36662.7	-90515.2
	38.6	1180.5	-431.4	4584.5	-36662.2	-90517.1
	-40.7	1183.6	-424.8	4585.4	-36097.2	-90796.5
	-37.4	1183.6	-424.8	4585.5	-36096.7	-90798.4
81.	36.2	1187.6	-484.1	4766.9	-1104.3	4268.7
	39.6	1187.6	-484.1	4767.0	-1102.8	4268.1
	-39.7	1190.7	-477.5	4767.9	-1065.7	4240.1
	-36.4	1190.7	-477.5	4768.0	-1064.2	4239.5
	36.0	1180.2	-472.5	4759.7	-1125.4	4281.4
	39.4	1180.2	-472.5	4759.8	-1124.0	4280.7
	-39.9	1183.4	-465.9	4760.7	-1086.9	4252.8
	-36.6	1183.4	-465.9	4760.8	-1085.4	4252.2
	35.5	1141.2	-442.9	4591.7	-2229.6	2337.9
	38.8	1141.2	-443.0	4591.7	-2228.2	2337.3
	-40.5	1144.4	-436.4	4592.6	-2191.1	2309.4
	-37.2	1144.4	-436.4	4592.7	-2189.6	2308.8
	35.2	1133.9	-431.3	4584.4	-2250.8	2350.6
	38.6	1133.9	-431.4	4584.5	-2249.3	2350.0
	-40.7	1137.0	-424.8	4585.4	-2212.3	2322.1
	-37.4	1137.0	-424.8	4585.5	-2210.8	2321.5
162.	36.2	1141.0	-484.1	4766.9	37742.2	98077.2
	39.6	1141.0	-484.1	4767.0	37744.6	98077.9
	-39.7	1144.1	-477.5	4767.9	37245.8	98303.6
	-36.4	1144.2	-477.5	4768.0	37248.2	98304.3
	36.0	1133.7	-472.5	4759.7	36783.4	97495.4
	39.4	1133.7	-472.5	4759.8	36785.8	97496.1
	-39.9	1136.8	-465.9	4760.7	36287.0	97721.8
	-36.6	1136.8	-465.9	4760.8	36289.4	97722.5
	35.5	1094.7	-442.9	4591.7	33879.3	93046.9
	38.8	1094.7	-443.0	4591.7	33881.8	93047.6
	-40.5	1097.8	-436.4	4592.6	33382.9	93273.3
	-37.2	1097.8	-436.4	4592.7	33385.4	93274.0
	35.2	1087.3	-431.3	4584.4	32920.5	92465.1
	38.6	1087.3	-431.4	4584.5	32923.0	92465.8
	-40.7	1090.4	-424.8	4585.4	32424.1	92691.6
	-37.4	1090.5	-424.8	4585.5	32426.6	92692.2

SOLLECITAZIONI ASTE

CASO DI CARICO : 5 SLU con SISMAY PRINC COMBINAZIONE

N. 2 CONDIZIONI ANALISI STATICA
 1 Peso_proprio_____ + 1.00
 2 Permanente_____ + 1.00
 N. 2 CASI DI CARICO
 3 SISMA1 SLU 1.00
 2 SISMA2 SLU 0.30

1)	+1.00*c001	+1.00*c002	+1.00*c003.001	+0.30*c002.001
2)	+1.00*c001	+1.00*c002	+1.00*c003.001	+0.30*c002.002
3)	+1.00*c001	+1.00*c002	+1.00*c003.001	+0.30*c002.003
4)	+1.00*c001	+1.00*c002	+1.00*c003.001	+0.30*c002.004
5)	+1.00*c001	+1.00*c002	+1.00*c003.002	+0.30*c002.001
6)	+1.00*c001	+1.00*c002	+1.00*c003.002	+0.30*c002.002
7)	+1.00*c001	+1.00*c002	+1.00*c003.002	+0.30*c002.003
8)	+1.00*c001	+1.00*c002	+1.00*c003.002	+0.30*c002.004
9)	+1.00*c001	+1.00*c002	+1.00*c003.003	+0.30*c002.001
10)	+1.00*c001	+1.00*c002	+1.00*c003.003	+0.30*c002.002
11)	+1.00*c001	+1.00*c002	+1.00*c003.003	+0.30*c002.003
12)	+1.00*c001	+1.00*c002	+1.00*c003.003	+0.30*c002.004
13)	+1.00*c001	+1.00*c002	+1.00*c003.004	+0.30*c002.001
14)	+1.00*c001	+1.00*c002	+1.00*c003.004	+0.30*c002.002
15)	+1.00*c001	+1.00*c002	+1.00*c003.004	+0.30*c002.003
16)	+1.00*c001	+1.00*c002	+1.00*c003.004	+0.30*c002.004

Unità di misura: Prog e frecce [cm];NORM,TYY,TZZ [daN]
 MZZ,MY,TORS [daNcm]

Asta	3	nod	4	89		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	-342.6	674.5	-0.8	0.0	0.0	0.0
	-342.6	674.5	-0.8	0.0	0.0	0.0
	-342.6	674.5	-0.9	0.0	0.0	0.0
	-342.6	674.5	-0.9	0.0	0.0	0.0
	-342.6	674.5	-0.8	0.0	0.0	0.0
	-342.6	674.5	-0.8	0.0	0.0	0.0
	-342.6	674.5	-0.9	0.0	0.0	0.0
	-342.6	674.5	-0.9	0.0	0.0	0.0
	-342.6	674.5	-0.4	0.0	0.0	0.0
	-342.6	674.5	-0.4	0.0	0.0	0.0
	-342.6	674.5	-0.5	0.0	0.0	0.0
	-342.6	674.5	-0.5	0.0	0.0	0.0
	-342.6	674.5	-0.4	0.0	0.0	0.0
	-342.6	674.5	-0.4	0.0	0.0	0.0
	-342.6	674.5	-0.5	0.0	0.0	0.0
	-342.6	674.5	-0.5	0.0	0.0	0.0
450.	0.0	-173.5	-0.8	0.0	361.4	112796.9
	0.0	-173.5	-0.8	0.0	364.9	112796.6
	0.0	-173.5	-0.9	0.0	395.3	112793.2
	0.0	-173.5	-0.9	0.0	398.8	112792.8
	0.0	-173.5	-0.8	0.0	361.7	112796.9
	0.0	-173.5	-0.8	0.0	365.1	112796.6
	0.0	-173.5	-0.9	0.0	395.6	112793.2
	0.0	-173.5	-0.9	0.0	399.1	112792.8
	0.0	-173.5	-0.4	0.0	187.2	112797.4
	0.0	-173.5	-0.4	0.0	190.6	112797.1
	0.0	-173.5	-0.5	0.0	221.1	112793.6
	0.0	-173.5	-0.5	0.0	224.6	112793.3
	0.0	-173.5	-0.4	0.0	187.4	112797.4
	0.0	-173.5	-0.4	0.0	190.9	112797.1
	0.0	-173.5	-0.5	0.0	221.4	112793.6
	0.0	-173.5	-0.5	0.0	224.9	112793.3
901.	342.6	-1021.4	-0.8	0.0	722.8	-156230.7
	342.6	-1021.4	-0.8	0.0	729.7	-156231.4
	342.6	-1021.4	-0.9	0.0	790.7	-156238.3
	342.6	-1021.4	-0.9	0.0	797.6	-156239.0
	342.6	-1021.4	-0.8	0.0	723.4	-156230.7
	342.6	-1021.4	-0.8	0.0	730.3	-156231.4
	342.6	-1021.4	-0.9	0.0	791.2	-156238.3
	342.6	-1021.4	-0.9	0.0	798.2	-156239.0
	342.6	-1021.4	-0.4	0.0	374.3	-156229.8
	342.6	-1021.4	-0.4	0.0	381.3	-156230.5
	342.6	-1021.4	-0.5	0.0	442.2	-156237.3
	342.6	-1021.4	-0.5	0.0	449.1	-156238.0
	342.6	-1021.4	-0.4	0.0	374.9	-156229.8
	342.6	-1021.4	-0.4	0.0	381.8	-156230.5
	342.6	-1021.4	-0.5	0.0	442.8	-156237.3
	342.6	-1021.4	-0.5	0.0	449.7	-156238.0
Asta	5	nod	7	88		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	376.4	688.5	-0.2	0.0	0.0	0.0
	364.2	688.5	-0.2	0.0	0.0	0.0
	281.4	688.2	-0.2	0.0	0.0	0.0
	269.3	688.2	-0.2	0.0	0.0	0.0
	376.4	688.5	-0.2	0.0	0.0	0.0
	364.2	688.5	-0.2	0.0	0.0	0.0
	281.4	688.2	-0.2	0.0	0.0	0.0
	269.3	688.2	-0.2	0.0	0.0	0.0
	381.3	688.5	0.3	0.0	0.0	0.0
	369.1	688.5	0.3	0.0	0.0	0.0
	286.4	688.2	0.3	0.0	0.0	0.0
	274.2	688.2	0.3	0.0	0.0	0.0

	381.3	688.5	0.3	0.0	0.0	0.0
	369.1	688.5	0.3	0.0	0.0	0.0
	286.4	688.2	0.3	0.0	0.0	0.0
	274.2	688.2	0.3	0.0	0.0	0.0
450.	719.0	-159.4	-0.2	0.0	83.3	119129.7
	706.8	-159.4	-0.2	0.0	82.7	119116.8
	624.1	-159.7	-0.2	0.0	86.9	118981.5
	611.9	-159.8	-0.2	0.0	86.3	118968.6
	719.0	-159.4	-0.2	0.0	81.9	119129.5
	706.9	-159.4	-0.2	0.0	81.3	119116.6
	624.1	-159.7	-0.2	0.0	85.4	118981.3
	611.9	-159.8	-0.2	0.0	84.9	118968.3
	723.9	-159.4	0.3	0.0	-135.4	119136.6
	711.8	-159.4	0.3	0.0	-135.9	119123.6
	629.0	-159.7	0.3	0.0	-131.8	118988.3
	616.8	-159.8	0.3	0.0	-132.3	118975.4
	723.9	-159.4	0.3	0.0	-136.8	119136.4
	711.8	-159.4	0.3	0.0	-137.3	119123.4
	629.0	-159.7	0.3	0.0	-133.2	118988.1
	616.8	-159.8	0.3	0.0	-133.7	118975.2
901.	1061.6	-1007.4	-0.2	0.0	166.6	-143565.1
	1049.5	-1007.4	-0.2	0.0	165.5	-143591.0
	966.7	-1007.7	-0.2	0.0	173.7	-143861.6
	954.5	-1007.7	-0.2	0.0	172.6	-143887.5
	1061.6	-1007.4	-0.2	0.0	163.7	-143565.6
	1049.5	-1007.4	-0.2	0.0	162.7	-143591.4
	966.7	-1007.7	-0.2	0.0	170.9	-143862.0
	954.5	-1007.7	-0.2	0.0	169.8	-143887.9
	1066.6	-1007.3	0.3	0.0	-270.7	-143551.4
	1054.4	-1007.4	0.3	0.0	-271.8	-143577.3
	971.6	-1007.7	0.3	0.0	-263.6	-143847.9
	959.5	-1007.7	0.3	0.0	-264.7	-143873.8
	1066.6	-1007.3	0.3	0.0	-273.5	-143551.9
	1054.4	-1007.4	0.3	0.0	-274.6	-143577.8
	971.6	-1007.7	0.3	0.0	-266.4	-143848.4
	959.5	-1007.7	0.3	0.0	-267.5	-143874.3
Asta	7	nod1	10	87		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-342.6	674.0	-0.1	0.0	0.0	0.0
	-342.6	674.0	-0.1	0.0	0.0	0.0
	-342.6	674.0	-0.2	0.0	0.0	0.0
	-342.6	674.0	-0.2	0.0	0.0	0.0
	-342.6	674.0	-0.1	0.0	0.0	0.0
	-342.6	674.0	-0.1	0.0	0.0	0.0
	-342.6	674.0	-0.2	0.0	0.0	0.0
	-342.6	674.0	-0.2	0.0	0.0	0.0
	-342.6	674.0	0.5	0.0	0.0	0.0
	-342.6	674.0	0.5	0.0	0.0	0.0
	-342.6	674.0	0.4	0.0	0.0	0.0
	-342.6	674.0	0.4	0.0	0.0	0.0
	-342.6	674.0	0.5	0.0	0.0	0.0
	-342.6	674.0	0.5	0.0	0.0	0.0
	-342.6	674.0	0.4	0.0	0.0	0.0
	-342.6	674.0	0.4	0.0	0.0	0.0
450.	0.0	-173.9	-0.1	0.0	51.9	112586.2
	0.0	-173.9	-0.1	0.0	54.4	112585.8
	0.0	-174.0	-0.2	0.0	77.7	112581.0
	0.0	-174.0	-0.2	0.0	80.2	112580.7
	0.0	-173.9	-0.1	0.0	52.0	112586.2
	0.0	-173.9	-0.1	0.0	54.5	112585.8
	0.0	-174.0	-0.2	0.0	77.9	112581.0
	0.0	-174.0	-0.2	0.0	80.4	112580.7
	0.0	-173.9	0.5	0.0	-211.9	112586.4
	0.0	-173.9	0.5	0.0	-209.4	112586.1
	0.0	-174.0	0.4	0.0	-186.0	112581.2
	0.0	-174.0	0.4	0.0	-183.5	112580.9
	0.0	-173.9	0.5	0.0	-211.7	112586.4
	0.0	-173.9	0.5	0.0	-209.2	112586.1
	0.0	-174.0	0.4	0.0	-185.9	112581.2
	0.0	-174.0	0.4	0.0	-183.3	112580.9
901.	342.6	-1021.9	-0.1	0.0	103.7	-156652.2
	342.6	-1021.9	-0.1	0.0	108.7	-156652.9
	342.6	-1021.9	-0.2	0.0	155.4	-156662.6
	342.6	-1021.9	-0.2	0.0	160.5	-156663.3
	342.6	-1021.9	-0.1	0.0	104.0	-156652.2
	342.6	-1021.9	-0.1	0.0	109.1	-156652.9
	342.6	-1021.9	-0.2	0.0	155.7	-156662.6
	342.6	-1021.9	-0.2	0.0	160.8	-156663.3
	342.6	-1021.9	0.5	0.0	-423.7	-156651.7
	342.6	-1021.9	0.5	0.0	-418.7	-156652.5
	342.6	-1021.9	0.4	0.0	-372.0	-156662.1
	342.6	-1021.9	0.4	0.0	-367.0	-156662.8
	342.6	-1021.9	0.5	0.0	-423.4	-156651.8
	342.6	-1021.9	0.5	0.0	-418.4	-156652.5
	342.6	-1021.9	0.4	0.0	-371.7	-156662.1
	342.6	-1021.9	0.4	0.0	-366.7	-156662.8
Asta	9	nod1	13	86		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	237.4	690.4	-0.3	0.0	0.0	0.0

450.	233.9	690.4	-0.3	0.0	0.0	0.0
	114.1	690.1	-0.3	0.0	0.0	0.0
	110.6	690.1	-0.3	0.0	0.0	0.0
	237.4	690.4	-0.3	0.0	0.0	0.0
	233.9	690.4	-0.3	0.0	0.0	0.0
	114.1	690.1	-0.3	0.0	0.0	0.0
	110.6	690.1	-0.3	0.0	0.0	0.0
	238.4	690.4	0.3	0.0	0.0	0.0
	235.0	690.4	0.3	0.0	0.0	0.0
	115.1	690.1	0.3	0.0	0.0	0.0
	111.7	690.1	0.3	0.0	0.0	0.0
	238.4	690.4	0.3	0.0	0.0	0.0
	235.0	690.4	0.3	0.0	0.0	0.0
	115.1	690.1	0.3	0.0	0.0	0.0
	111.7	690.1	0.3	0.0	0.0	0.0
	580.0	-157.6	-0.3	0.0	144.6	119966.3
	576.6	-157.6	-0.3	0.0	144.1	119961.7
	456.7	-157.9	-0.3	0.0	141.7	119820.0
	453.3	-157.9	-0.3	0.0	141.2	119815.4
	580.0	-157.6	-0.3	0.0	143.2	119966.4
901.	576.6	-157.6	-0.3	0.0	142.7	119961.8
	456.7	-157.9	-0.3	0.0	140.3	119820.0
	453.3	-157.9	-0.3	0.0	139.8	119815.4
	581.0	-157.6	0.3	0.0	-126.3	119967.0
	577.6	-157.6	0.3	0.0	-126.7	119962.4
	457.7	-157.9	0.3	0.0	-129.2	119820.7
	454.3	-157.9	0.3	0.0	-129.7	119816.1
	581.0	-157.6	0.3	0.0	-127.7	119967.1
	577.6	-157.6	0.3	0.0	-128.1	119962.5
	457.7	-157.9	0.3	0.0	-130.6	119820.7
	454.3	-157.9	0.3	0.0	-131.1	119816.1
	922.6	-1005.5	-0.3	0.0	289.2	-141891.9
	919.2	-1005.5	-0.3	0.0	288.3	-141901.1
	799.3	-1005.8	-0.3	0.0	283.4	-142184.7
	795.9	-1005.8	-0.3	0.0	282.4	-142193.9
	922.6	-1005.5	-0.3	0.0	286.4	-141891.8
	919.2	-1005.5	-0.3	0.0	285.5	-141901.0
	799.3	-1005.8	-0.3	0.0	280.6	-142184.6
	795.9	-1005.8	-0.3	0.0	279.6	-142193.8
	923.7	-1005.5	0.3	0.0	-252.5	-141890.5
920.2	-1005.5	0.3	0.0	-253.5	-141899.7	
800.4	-1005.8	0.3	0.0	-258.4	-142183.3	
796.9	-1005.8	0.3	0.0	-259.4	-142192.5	
923.7	-1005.5	0.3	0.0	-255.3	-141890.4	
920.2	-1005.5	0.3	0.0	-256.3	-141899.6	
800.4	-1005.8	0.3	0.0	-261.2	-142183.2	
796.9	-1005.8	0.3	0.0	-262.2	-142192.4	
Asta	11	16	85			
PROGR.	nodi					
0.	NORM	TYT	TZT	TORS	MYT	MZT
	-342.6	674.0	-0.3	0.0	0.0	0.0
	-342.6	674.0	-0.3	0.0	0.0	0.0
	-342.6	674.0	-0.3	0.0	0.0	0.0
	-342.6	674.0	-0.3	0.0	0.0	0.0
	-342.6	674.0	-0.3	0.0	0.0	0.0
	-342.6	674.0	-0.3	0.0	0.0	0.0
	-342.6	674.0	-0.3	0.0	0.0	0.0
	-342.6	674.0	-0.3	0.0	0.0	0.0
	-342.6	674.0	0.3	0.0	0.0	0.0
	-342.6	674.0	0.3	0.0	0.0	0.0
	-342.6	674.0	0.3	0.0	0.0	0.0
	-342.6	674.0	0.3	0.0	0.0	0.0
	-342.6	674.0	0.3	0.0	0.0	0.0
	-342.6	674.0	0.3	0.0	0.0	0.0
	-342.6	674.0	0.3	0.0	0.0	0.0
	-342.6	674.0	0.3	0.0	0.0	0.0
450.	0.0	-173.9	-0.3	0.0	139	

		342.6	-1021.8	0.3	0.0	-275.3	-156615.8
		342.6	-1021.9	0.3	0.0	-264.5	-156628.9
		342.6	-1021.9	0.3	0.0	-259.0	-156629.0
		342.6	-1021.8	0.3	0.0	-280.5	-156615.7
		342.6	-1021.8	0.3	0.0	-275.0	-156615.8
		342.6	-1021.9	0.3	0.0	-264.2	-156628.9
		342.6	-1021.9	0.3	0.0	-258.7	-156629.0
Asta	13	nod1	19	84			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	253.1	690.2	-0.3	0.0	0.0	0.0	
	258.9	690.3	-0.3	0.0	0.0	0.0	
	119.2	689.9	-0.3	0.0	0.0	0.0	
	124.9	689.9	-0.3	0.0	0.0	0.0	
	253.1	690.2	-0.3	0.0	0.0	0.0	
	258.9	690.3	-0.3	0.0	0.0	0.0	
	119.2	689.9	-0.3	0.0	0.0	0.0	
	124.9	689.9	-0.3	0.0	0.0	0.0	
	249.8	690.2	0.3	0.0	0.0	0.0	
	255.6	690.2	0.3	0.0	0.0	0.0	
	115.9	689.9	0.3	0.0	0.0	0.0	
	121.6	689.9	0.3	0.0	0.0	0.0	
	249.8	690.2	0.3	0.0	0.0	0.0	
	255.6	690.2	0.3	0.0	0.0	0.0	
	115.9	689.9	0.3	0.0	0.0	0.0	
	121.6	689.9	0.3	0.0	0.0	0.0	
450.	595.7	-157.7	-0.3	0.0	121.4	119900.9	
	601.5	-157.7	-0.3	0.0	120.9	119906.3	
	461.8	-158.1	-0.3	0.0	123.0	119740.8	
	467.6	-158.0	-0.3	0.0	122.5	119746.2	
	595.7	-157.7	-0.3	0.0	120.0	119900.9	
	601.5	-157.7	-0.3	0.0	119.5	119906.2	
	461.8	-158.1	-0.3	0.0	121.6	119740.8	
	467.6	-158.0	-0.3	0.0	121.1	119746.2	
	592.4	-157.7	0.3	0.0	-129.6	119898.2	
	598.2	-157.7	0.3	0.0	-130.1	119903.6	
	458.5	-158.1	0.3	0.0	-127.9	119738.2	
	464.3	-158.0	0.3	0.0	-128.4	119743.5	
	592.4	-157.7	0.3	0.0	-131.0	119898.2	
	598.2	-157.7	0.3	0.0	-131.5	119903.6	
	458.5	-158.1	0.3	0.0	-129.3	119738.2	
	464.3	-158.0	0.3	0.0	-129.8	119743.5	
901.	938.3	-1005.6	-0.3	0.0	242.8	-142022.8	
	944.1	-1005.6	-0.3	0.0	241.8	-142012.1	
	804.4	-1006.0	-0.3	0.0	246.1	-142342.9	
	810.2	-1006.0	-0.3	0.0	245.0	-142332.2	
	938.3	-1005.6	-0.3	0.0	240.0	-142022.8	
	944.1	-1005.6	-0.3	0.0	239.0	-142012.1	
	804.4	-1006.0	-0.3	0.0	243.3	-142342.9	
	810.2	-1006.0	-0.3	0.0	242.2	-142332.3	
	935.0	-1005.6	0.3	0.0	-259.1	-142028.1	
	940.8	-1005.6	0.3	0.0	-260.2	-142017.5	
	801.1	-1006.0	0.3	0.0	-255.9	-142348.3	
	806.9	-1006.0	0.3	0.0	-256.9	-142337.6	
	935.0	-1005.6	0.3	0.0	-261.9	-142028.1	
	940.8	-1005.6	0.3	0.0	-263.0	-142017.5	
	801.1	-1006.0	0.3	0.0	-258.7	-142348.3	
	806.9	-1006.0	0.3	0.0	-259.7	-142337.6	
Asta	15	nod1	22	83			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-342.6	674.0	-0.3	0.0	0.0	0.0	
	-342.6	674.0	-0.3	0.0	0.0	0.0	
	-342.6	674.0	-0.3	0.0	0.0	0.0	
	-342.6	674.0	-0.3	0.0	0.0	0.0	
	-342.6	674.0	-0.3	0.0	0.0	0.0	
	-342.6	674.0	-0.3	0.0	0.0	0.0	
	-342.6	674.0	-0.3	0.0	0.0	0.0	
	-342.6	674.0	-0.3	0.0	0.0	0.0	
	-342.6	674.0	0.2	0.0	0.0	0.0	
	-342.6	674.0	0.1	0.0	0.0	0.0	
	-342.6	674.0	0.2	0.0	0.0	0.0	
	-342.6	674.0	0.2	0.0	0.0	0.0	
	-342.6	674.0	0.2	0.0	0.0	0.0	
	-342.6	674.0	0.1	0.0	0.0	0.0	
	-342.6	674.0	0.2	0.0	0.0	0.0	
	-342.6	674.0	0.2	0.0	0.0	0.0	
450.	0.0	-173.9	-0.3	0.0	153.5	112593.5	
	0.0	-173.9	-0.3	0.0	156.2	112593.7	
	0.0	-173.9	-0.3	0.0	130.9	112588.0	
	0.0	-173.9	-0.3	0.0	133.6	112588.2	
	0.0	-173.9	-0.3	0.0	153.7	112593.5	
	0.0	-173.9	-0.3	0.0	156.4	112593.7	
	0.0	-173.9	-0.3	0.0	131.0	112588.0	
	0.0	-173.9	-0.3	0.0	133.7	112588.2	
	0.0	-173.9	0.2	0.0	-70.2	112593.2	
	0.0	-173.9	0.1	0.0	-67.5	112593.4	
	0.0	-173.9	0.2	0.0	-92.8	112587.7	
	0.0	-173.9	0.2	0.0	-90.1	112587.9	
	0.0	-173.9	0.2	0.0	-70.0	112593.2	
	0.0	-173.9	0.1	0.0	-67.3	112593.4	

	0.0	-173.9	0.2	0.0	-92.7	112587.7
	0.0	-173.9	0.2	0.0	-90.0	112587.9
901.	342.6	-1021.9	-0.3	0.0	307.0	-156637.5
	342.6	-1021.9	-0.3	0.0	312.4	-156637.1
	342.6	-1021.9	-0.3	0.0	261.8	-156648.7
	342.6	-1021.9	-0.3	0.0	267.2	-156648.3
	342.6	-1021.9	-0.3	0.0	307.3	-156637.5
	342.6	-1021.9	-0.3	0.0	312.7	-156637.1
	342.6	-1021.9	-0.3	0.0	262.1	-156648.7
	342.6	-1021.9	-0.3	0.0	267.5	-156648.3
	342.6	-1021.9	0.2	0.0	-140.4	-156638.1
	342.6	-1021.9	0.1	0.0	-135.0	-156637.7
	342.6	-1021.9	0.2	0.0	-185.6	-156649.3
	342.6	-1021.9	0.2	0.0	-180.2	-156648.9
	342.6	-1021.9	0.2	0.0	-140.1	-156638.1
	342.6	-1021.9	0.1	0.0	-134.7	-156637.7
	342.6	-1021.9	0.2	0.0	-185.3	-156649.3
	342.6	-1021.9	0.2	0.0	-179.9	-156648.9
Asta	17	nod1	25	82		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	308.1	689.3	-0.2	0.0	0.0	0.0
	323.0	689.3	-0.2	0.0	0.0	0.0
	207.6	689.1	-0.2	0.0	0.0	0.0
	222.5	689.1	-0.2	0.0	0.0	0.0
	308.1	689.3	-0.2	0.0	0.0	0.0
	323.0	689.3	-0.2	0.0	0.0	0.0
	207.6	689.1	-0.2	0.0	0.0	0.0
	222.5	689.1	-0.2	0.0	0.0	0.0
	301.4	689.3	0.1	0.0	0.0	0.0
	316.3	689.3	0.1	0.0	0.0	0.0
	200.9	689.0	0.1	0.0	0.0	0.0
	215.8	689.1	0.1	0.0	0.0	0.0
	301.4	689.3	0.1	0.0	0.0	0.0
	316.3	689.3	0.1	0.0	0.0	0.0
	200.9	689.0	0.1	0.0	0.0	0.0
	215.8	689.1	0.1	0.0	0.0	0.0
450.	650.7	-158.6	-0.2	0.0	104.7	119487.7
	665.6	-158.6	-0.2	0.0	104.2	119497.4
	550.2	-158.9	-0.2	0.0	101.3	119369.2
	565.1	-158.9	-0.2	0.0	100.8	119378.9
	650.7	-158.6	-0.2	0.0	103.3	119487.7
	665.6	-158.6	-0.2	0.0	102.8	119497.4
	550.2	-158.9	-0.2	0.0	99.9	119369.2
	565.1	-158.9	-0.2	0.0	99.4	119378.9
	644.0	-158.6	0.1	0.0	-60.2	119481.6
	658.9	-158.6	0.1	0.0	-60.8	119491.3
	543.5	-158.9	0.1	0.0	-63.7	119363.1
	558.4	-158.9	0.1	0.0	-64.2	119372.8
	644.0	-158.6	0.1	0.0	-61.6	119481.6
	658.9	-158.6	0.1	0.0	-62.2	119491.3
	543.5	-158.9	0.1	0.0	-65.1	119363.1
	558.4	-158.9	0.1	0.0	-65.6	119372.8
901.	993.3	-1006.6	-0.2	0.0	209.5	-142849.2
	1008.2	-1006.5	-0.2	0.0	208.4	-142829.7
	892.8	-1006.8	-0.2	0.0	202.6	-143086.2
	907.7	-1006.8	-0.2	0.0	201.5	-143066.7
	993.3	-1006.6	-0.2	0.0	206.7	-142849.2
	1008.2	-1006.5	-0.2	0.0	205.6	-142829.7
	892.8	-1006.8	-0.2	0.0	199.8	-143086.2
	907.7	-1006.8	-0.2	0.0	198.7	-143066.7
	986.7	-1006.6	0.1	0.0	-120.5	-142861.5
	1001.5	-1006.6	0.1	0.0	-121.6	-142842.0
	886.1	-1006.8	0.1	0.0	-127.3	-143098.5
	901.0	-1006.8	0.1	0.0	-128.4	-143079.0
	986.7	-1006.6	0.1	0.0	-123.3	-142861.5
	1001.5	-1006.6	0.1	0.0	-124.4	-142842.0
	886.1	-1006.8	0.1	0.0	-130.1	-143098.5
	901.0	-1006.8	0.1	0.0	-131.2	-143079.0
Asta	19	nod1	28	81		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-342.6	674.1	0.4	0.0	0.0	0.0
	-342.6	674.1	0.3	0.0	0.0	0.0
	-342.6	674.1	0.3	0.0	0.0	0.0
	-342.6	674.1	0.3	0.0	0.0	0.0
	-342.6	674.1	0.4	0.0	0.0	0.0
	-342.6	674.1	0.3	0.0	0.0	0.0
	-342.6	674.1	0.3	0.0	0.0	0.0
	-342.6	674.1	0.3	0.0	0.0	0.0
	-342.6	674.1	0.6	0.0	0.0	0.0
	-342.6	674.1	0.6	0.0	0.0	0.0
	-342.6	674.1	0.6	0.0	0.0	0.0
	-342.6	674.1	0.5	0.0	0.0	0.0
	-342.6	674.1	0.6	0.0	0.0	0.0
	-342.6	674.1	0.6	0.0	0.0	0.0
	-342.6	674.1	0.6	0.0	0.0	0.0
	-342.6	674.1	0.5	0.0	0.0	0.0
450.	0.0	-173.8	0.4	0.0	-158.8	112636.6
	0.0	-173.8	0.3	0.0	-155.9	112637.5
	0.0	-173.8	0.3	0.0	-140.9	112632.5

	0.0	-173.8	0.3	0.0	-138.0	112633.4
	0.0	-173.8	0.4	0.0	-158.7	112636.6
	0.0	-173.8	0.3	0.0	-155.7	112637.5
	0.0	-173.8	0.3	0.0	-140.8	112632.5
	0.0	-173.8	0.3	0.0	-137.9	112633.4
	0.0	-173.8	0.6	0.0	-266.2	112636.3
	0.0	-173.8	0.6	0.0	-263.3	112637.2
	0.0	-173.8	0.6	0.0	-248.3	112632.1
	0.0	-173.8	0.5	0.0	-245.4	112633.0
	0.0	-173.8	0.6	0.0	-266.0	112636.3
	0.0	-173.8	0.6	0.0	-263.1	112637.2
	0.0	-173.8	0.6	0.0	-248.1	112632.1
	0.0	-173.8	0.5	0.0	-245.2	112633.0
901.	342.6	-1021.8	0.4	0.0	-317.6	-156551.3
	342.6	-1021.8	0.3	0.0	-311.8	-156549.5
	342.6	-1021.8	0.3	0.0	-281.9	-156559.6
	342.6	-1021.8	0.3	0.0	-276.1	-156557.8
	342.6	-1021.8	0.4	0.0	-317.3	-156551.3
	342.6	-1021.8	0.3	0.0	-311.5	-156549.5
	342.6	-1021.8	0.3	0.0	-281.6	-156559.6
	342.6	-1021.8	0.3	0.0	-275.8	-156557.8
	342.6	-1021.8	0.6	0.0	-532.4	-156552.1
	342.6	-1021.8	0.6	0.0	-526.5	-156550.3
	342.6	-1021.8	0.6	0.0	-496.6	-156560.3
	342.6	-1021.8	0.5	0.0	-490.8	-156558.5
	342.6	-1021.8	0.6	0.0	-532.0	-156552.1
	342.6	-1021.8	0.6	0.0	-526.2	-156550.3
	342.6	-1021.8	0.6	0.0	-496.3	-156560.3
	342.6	-1021.8	0.5	0.0	-490.5	-156558.5
Asta	21	nod1	31	80		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-163.6	694.5	0.0	0.0	0.0	0.0
	-138.6	694.6	0.0	0.0	0.0	0.0
	-215.6	694.3	0.0	0.0	0.0	0.0
	-190.5	694.4	0.0	0.0	0.0	0.0
	-163.6	694.5	0.0	0.0	0.0	0.0
	-138.6	694.6	0.0	0.0	0.0	0.0
	-215.6	694.3	0.0	0.0	0.0	0.0
	-190.5	694.4	0.0	0.0	0.0	0.0
	-172.2	694.5	0.1	0.0	0.0	0.0
	-147.1	694.6	0.1	0.0	0.0	0.0
	-224.1	694.3	0.1	0.0	0.0	0.0
	-199.1	694.4	0.1	0.0	0.0	0.0
	-172.2	694.5	0.1	0.0	0.0	0.0
	-147.1	694.6	0.1	0.0	0.0	0.0
	-224.1	694.3	0.1	0.0	0.0	0.0
	-199.1	694.4	0.1	0.0	0.0	0.0
450.	179.0	-153.4	0.0	0.0	13.8	121823.3
	204.0	-153.3	0.0	0.0	14.5	121863.9
	127.0	-153.6	0.0	0.0	10.3	121747.7
	152.1	-153.5	0.0	0.0	11.0	121788.2
	179.0	-153.4	0.0	0.0	12.4	121823.3
	204.1	-153.3	0.0	0.0	13.1	121863.9
	127.0	-153.6	0.0	0.0	8.9	121747.7
	152.1	-153.5	0.0	0.0	9.6	121788.2
	170.5	-153.4	0.1	0.0	-24.6	121819.4
	195.5	-153.3	0.1	0.0	-23.9	121859.9
	118.5	-153.6	0.1	0.0	-28.1	121743.8
	143.6	-153.5	0.1	0.0	-27.3	121784.3
	170.5	-153.4	0.1	0.0	-26.0	121819.4
	195.5	-153.3	0.1	0.0	-25.2	121859.9
	118.5	-153.6	0.1	0.0	-29.5	121743.8
	143.6	-153.5	0.1	0.0	-28.7	121784.3
901.	521.6	-1001.4	0.0	0.0	27.5	-138177.9
	546.7	-1001.3	0.0	0.0	29.1	-138096.8
	469.7	-1001.5	0.0	0.0	20.6	-138329.2
	494.7	-1001.5	0.0	0.0	22.1	-138248.1
	521.6	-1001.4	0.0	0.0	24.7	-138177.9
	546.7	-1001.3	0.0	0.0	26.3	-138096.8
	469.7	-1001.5	0.0	0.0	17.8	-138329.2
	494.7	-1001.5	0.0	0.0	19.3	-138248.1
	513.1	-1001.4	0.1	0.0	-49.2	-138185.8
	538.2	-1001.3	0.1	0.0	-47.7	-138104.7
	461.1	-1001.5	0.1	0.0	-56.2	-138337.1
	486.2	-1001.5	0.1	0.0	-54.7	-138256.0
	513.1	-1001.4	0.1	0.0	-52.0	-138185.8
	538.2	-1001.3	0.1	0.0	-50.5	-138104.7
	461.1	-1001.5	0.1	0.0	-59.0	-138337.1
	486.2	-1001.5	0.1	0.0	-57.5	-138256.0
Asta	31	nod1	50	49		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2696.9	194.2	8.3	0.0	4460.0	-27345.3
	-2689.3	194.3	8.3	0.0	4464.3	-27362.4
	-2661.7	194.4	8.2	0.0	4420.8	-27449.8
	-2654.1	194.5	8.2	0.0	4425.1	-27467.0
	-2701.0	194.4	8.2	0.0	4424.7	-27412.0
	-2693.3	194.4	8.3	0.0	4429.0	-27429.1
	-2665.8	194.6	8.2	0.0	4385.5	-27516.6
	-2658.1	194.6	8.2	0.0	4389.8	-27533.7

	-2654.5	193.2	8.6	0.0	4602.2	-26803.7
	-2646.8	193.3	8.6	0.0	4606.4	-26820.9
	-2619.2	193.4	8.5	0.0	4563.0	-26908.3
	-2611.6	193.5	8.5	0.0	4567.3	-26925.4
	-2658.5	193.4	8.5	0.0	4566.8	-26870.4
	-2650.9	193.4	8.5	0.0	4571.1	-26887.6
	-2623.3	193.6	8.4	0.0	4527.6	-26975.0
	-2615.6	193.6	8.4	0.0	4531.9	-26992.1
268.	-2754.8	51.0	8.3	0.0	2230.0	5547.3
	-2747.2	51.0	8.3	0.0	2232.2	5538.7
	-2719.6	51.2	8.2	0.0	2210.4	5495.0
	-2712.0	51.2	8.2	0.0	2212.6	5486.4
	-2758.9	51.1	8.2	0.0	2212.3	5513.9
	-2751.2	51.1	8.3	0.0	2214.5	5505.4
	-2723.7	51.3	8.2	0.0	2192.7	5461.7
	-2716.0	51.3	8.2	0.0	2194.9	5453.1
	-2712.3	50.0	8.6	0.0	2301.1	5818.1
	-2704.7	50.0	8.6	0.0	2303.2	5809.5
	-2677.1	50.1	8.5	0.0	2281.5	5765.8
	-2669.5	50.2	8.5	0.0	2283.6	5757.2
	-2716.4	50.1	8.5	0.0	2283.4	5784.7
	-2708.7	50.1	8.5	0.0	2285.5	5776.1
	-2681.2	50.3	8.4	0.0	2263.8	5732.4
	-2673.5	50.3	8.4	0.0	2266.0	5723.9
537.	-2812.7	-92.3	8.3	0.0	0.0	0.0
	-2805.1	-92.3	8.3	0.0	0.0	0.0
	-2777.5	-92.1	8.2	0.0	0.0	0.0
	-2769.9	-92.1	8.2	0.0	0.0	0.0
	-2816.8	-92.2	8.2	0.0	0.0	0.0
	-2809.1	-92.2	8.3	0.0	0.0	0.0
	-2781.6	-92.0	8.2	0.0	0.0	0.0
	-2773.9	-92.0	8.2	0.0	0.0	0.0
	-2770.2	-93.3	8.6	0.0	0.0	0.0
	-2762.6	-93.3	8.6	0.0	0.0	0.0
	-2735.0	-93.1	8.5	0.0	0.0	0.0
	-2727.4	-93.1	8.5	0.0	0.0	0.0
	-2774.3	-93.2	8.5	0.0	0.0	0.0
	-2766.6	-93.2	8.5	0.0	0.0	0.0
	-2739.1	-93.0	8.4	0.0	0.0	0.0
	-2731.4	-93.0	8.4	0.0	0.0	0.0
Asta	32	nod	52	51		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-797.6	266.0	12.3	0.0	8745.8	-54316.5
	-787.3	266.0	12.3	0.0	8713.9	-54322.3
	-773.1	265.7	12.2	0.0	8641.8	-54128.1
	-762.8	265.7	12.1	0.0	8609.9	-54133.9
	-813.3	266.1	12.4	0.0	8772.5	-54387.5
	-802.9	266.1	12.3	0.0	8740.6	-54393.3
	-788.8	265.8	12.2	0.0	8668.5	-54199.1
	-778.5	265.8	12.2	0.0	8636.5	-54204.9
	-744.5	265.6	12.2	0.0	8643.5	-54047.4
	-734.1	265.6	12.1	0.0	8611.6	-54053.2
	-720.0	265.3	12.0	0.0	8539.5	-53859.0
	-709.6	265.3	12.0	0.0	8507.6	-53864.8
	-760.1	265.7	12.2	0.0	8670.2	-54118.4
	-749.8	265.7	12.2	0.0	8638.3	-54124.2
	-735.6	265.4	12.1	0.0	8566.2	-53930.0
	-725.3	265.4	12.0	0.0	8534.2	-53935.8
355.	-874.1	76.6	12.3	0.0	4372.9	6413.2
	-863.8	76.6	12.3	0.0	4356.9	6410.3
	-849.6	76.3	12.2	0.0	4320.9	6507.4
	-839.3	76.3	12.1	0.0	4304.9	6504.5
	-889.8	76.7	12.4	0.0	4386.3	6377.7
	-879.5	76.7	12.3	0.0	4370.3	6374.8
	-865.3	76.4	12.2	0.0	4334.2	6471.9
	-855.0	76.4	12.2	0.0	4318.3	6469.0
	-821.0	76.2	12.2	0.0	4321.8	6547.8
	-810.6	76.2	12.1	0.0	4305.8	6544.9
	-796.5	75.9	12.0	0.0	4269.7	6641.9
	-786.2	76.0	12.0	0.0	4253.8	6639.0
	-836.6	76.3	12.2	0.0	4335.1	6512.3
	-826.3	76.3	12.2	0.0	4319.1	6509.4
	-812.2	76.0	12.1	0.0	4283.1	6606.4
	-801.8	76.1	12.0	0.0	4267.1	6603.6
709.	-950.6	-112.8	12.3	0.0	0.0	0.0
	-940.3	-112.8	12.3	0.0	0.0	0.0
	-926.2	-113.0	12.2	0.0	0.0	0.0
	-915.8	-113.0	12.1	0.0	0.0	0.0
	-966.3	-112.7	12.4	0.0	0.0	0.0
	-956.0	-112.7	12.3	0.0	0.0	0.0
	-941.8	-112.9	12.2	0.0	0.0	0.0
	-931.5	-112.9	12.2	0.0	0.0	0.0
	-897.5	-113.1	12.2	0.0	0.0	0.0
	-887.2	-113.1	12.1	0.0	0.0	0.0
	-873.0	-113.4	12.0	0.0	0.0	0.0
	-862.7	-113.4	12.0	0.0	0.0	0.0
	-913.2	-113.0	12.2	0.0	0.0	0.0
	-902.8	-113.0	12.2	0.0	0.0	0.0
	-888.7	-113.3	12.1	0.0	0.0	0.0
	-878.4	-113.3	12.0	0.0	0.0	0.0

Asta	33	nod	53	46		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1052.9	188.2	-11.1	0.0	0.0	0.0
	-1053.4	188.1	-11.0	0.0	0.0	0.0
	-1054.3	187.9	-11.0	0.0	0.0	0.0
	-1054.7	187.9	-10.9	0.0	0.0	0.0
	-1048.5	188.0	-11.0	0.0	0.0	0.0
	-1049.0	187.9	-11.0	0.0	0.0	0.0
	-1049.9	187.7	-10.9	0.0	0.0	0.0
	-1050.3	187.7	-10.9	0.0	0.0	0.0
	-1084.8	189.4	-11.3	0.0	0.0	0.0
	-1085.3	189.3	-11.3	0.0	0.0	0.0
	-1086.2	189.1	-11.2	0.0	0.0	0.0
	-1086.6	189.1	-11.2	0.0	0.0	0.0
	-1080.4	189.2	-11.2	0.0	0.0	0.0
	-1080.9	189.1	-11.2	0.0	0.0	0.0
	-1081.8	188.9	-11.1	0.0	0.0	0.0
	-1082.2	188.8	-11.1	0.0	0.0	0.0
96.	-986.1	22.8	-11.1	0.0	1059.1	9813.6
	-986.6	22.7	-11.0	0.0	1056.8	9807.3
	-987.5	22.5	-11.0	0.0	1049.8	9789.2
	-987.9	22.4	-10.9	0.0	1047.5	9782.9
	-981.7	22.6	-11.0	0.0	1054.5	9794.1
	-982.2	22.5	-11.0	0.0	1052.2	9787.8
	-983.0	22.3	-10.9	0.0	1045.2	9769.8
	-983.5	22.2	-10.9	0.0	1043.0	9763.5
	-1018.0	24.0	-11.3	0.0	1079.8	9926.6
	-1018.5	23.9	-11.3	0.0	1077.5	9920.3
	-1019.3	23.7	-11.2	0.0	1070.5	9902.3
	-1019.8	23.6	-11.2	0.0	1068.2	9896.0
	-1013.6	23.7	-11.2	0.0	1075.2	9907.2
	-1014.1	23.7	-11.2	0.0	1073.0	9900.9
	-1014.9	23.5	-11.1	0.0	1066.0	9882.9
	-1015.4	23.4	-11.1	0.0	1063.7	9876.6
191.	-933.6	-107.2	-11.1	0.0	2118.2	5489.8
	-934.1	-107.3	-11.0	0.0	2113.6	5477.2
	-934.9	-107.5	-11.0	0.0	2099.6	5441.1
	-935.4	-107.5	-10.9	0.0	2095.0	5428.5
	-929.2	-107.4	-11.0	0.0	2109.1	5451.0
	-929.7	-107.5	-11.0	0.0	2104.5	5438.4
	-930.5	-107.7	-10.9	0.0	2090.5	5402.3
	-931.0	-107.7	-10.9	0.0	2085.9	5389.7
	-965.5	-106.0	-11.3	0.0	2159.6	5716.0
	-966.0	-106.1	-11.3	0.0	2155.0	5703.4
	-966.8	-106.3	-11.2	0.0	2141.1	5667.2
	-967.3	-106.3	-11.2	0.0	2136.5	5654.6
	-961.1	-106.2	-11.2	0.0	2150.5	5677.1
	-961.5	-106.3	-11.2	0.0	2145.9	5664.5
	-962.4	-106.5	-11.1	0.0	2131.9	5628.4
	-962.9	-106.5	-11.1	0.0	2127.3	5615.8
Asta	34	nod	54	48		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2193.8	318.4	-5.4	0.0	0.0	0.0
	-2193.6	318.4	-5.4	0.0	0.0	0.0
	-2190.7	318.3	-5.4	0.0	0.0	0.0
	-2190.5	318.2	-5.4	0.0	0.0	0.0
	-2180.5	318.3	-5.4	0.0	0.0	0.0
	-2180.3	318.3	-5.4	0.0	0.0	0.0
	-2177.4	318.2	-5.4	0.0	0.0	0.0
	-2177.3	318.1	-5.3	0.0	0.0	0.0
	-2296.8	319.4	-5.6	0.0	0.0	0.0
	-2296.6	319.3	-5.6	0.0	0.0	0.0
	-2293.7	319.2	-5.5	0.0	0.0	0.0
	-2293.5	319.1	-5.5	0.0	0.0	0.0
	-2283.5	319.2	-5.6	0.0	0.0	0.0
	-2283.3	319.2	-5.6	0.0	0.0	0.0
	-2280.4	319.1	-5.5	0.0	0.0	0.0
	-2280.2	319.0	-5.5	0.0	0.0	0.0
178.	-2054.2	-27.0	-5.4	0.0	967.5	25617.0
	-2054.0	-27.0	-5.4	0.0	966.0	25611.3
	-2051.1	-27.2	-5.4	0.0	956.7	25586.3
	-2050.9	-27.2	-5.4	0.0	955.2	25580.6
	-2040.9	-27.1	-5.4	0.0	965.0	25598.0
	-2040.7	-27.1	-5.4	0.0	963.5	25592.2
	-2037.8	-27.3	-5.4	0.0	954.2	25567.3
	-2037.7	-27.3	-5.3	0.0	952.6	25561.5
	-2157.2	-26.1	-5.6	0.0	994.5	25779.1
	-2157.0	-26.1	-5.6	0.0	993.0	25773.3
	-2154.1	-26.3	-5.5	0.0	983.7	25748.3
	-2153.9	-26.3	-5.5	0.0	982.2	25742.6
	-2143.9	-26.2	-5.6	0.0	992.0	25760.0
	-2143.7	-26.2	-5.6	0.0	990.5	25754.3
	-2140.8	-26.4	-5.5	0.0	981.2	25729.3
	-2140.6	-26.4	-5.5	0.0	979.6	25723.5
357.	-1924.4	-348.0	-5.4	0.0	1935.0	-8179.0
	-1924.3	-348.1	-5.4	0.0	1932.0	-8190.5
	-1921.4	-348.2	-5.4	0.0	1913.4	-8240.5
	-1921.2	-348.2	-5.4	0.0	1910.4	-8252.0
	-1911.2	-348.2	-5.4	0.0	1930.0	-8217.2

		-1911.0	-348.2	-5.4	0.0	1926.9	-8228.7
		-1908.1	-348.3	-5.4	0.0	1908.3	-8278.6
		-1907.9	-348.4	-5.3	0.0	1905.3	-8290.1
		-2027.4	-347.1	-5.6	0.0	1989.0	-7855.0
		-2027.3	-347.2	-5.6	0.0	1986.0	-7866.5
		-2024.3	-347.3	-5.5	0.0	1967.4	-7916.4
		-2024.2	-347.3	-5.5	0.0	1964.3	-7927.9
		-2014.1	-347.2	-5.6	0.0	1983.9	-7893.1
		-2014.0	-347.3	-5.6	0.0	1980.9	-7904.6
		-2011.1	-347.4	-5.5	0.0	1962.3	-7954.6
		-2010.9	-347.4	-5.5	0.0	1959.3	-7966.1
Asta	35	nod	55	50			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.		-2861.9	470.8	-8.8	0.0	0.0	0.0
		-2862.6	470.8	-8.7	0.0	0.0	0.0
		-2868.5	470.6	-8.7	0.0	0.0	0.0
		-2869.2	470.6	-8.7	0.0	0.0	0.0
		-2839.3	470.7	-8.8	0.0	0.0	0.0
		-2840.0	470.6	-8.7	0.0	0.0	0.0
		-2845.9	470.5	-8.7	0.0	0.0	0.0
		-2846.6	470.4	-8.7	0.0	0.0	0.0
		-2982.7	471.8	-9.2	0.0	0.0	0.0
		-2983.4	471.8	-9.2	0.0	0.0	0.0
		-2989.3	471.6	-9.1	0.0	0.0	0.0
		-2990.0	471.6	-9.1	0.0	0.0	0.0
		-2960.1	471.7	-9.2	0.0	0.0	0.0
		-2960.8	471.6	-9.1	0.0	0.0	0.0
		-2966.7	471.5	-9.1	0.0	0.0	0.0
		-2967.4	471.4	-9.1	0.0	0.0	0.0
268.		-2651.9	-48.9	-8.8	0.0	2352.6	56121.5
		-2652.7	-49.0	-8.7	0.0	2345.4	56110.8
		-2658.5	-49.1	-8.7	0.0	2332.7	56068.2
		-2659.3	-49.2	-8.7	0.0	2325.5	56057.6
		-2629.3	-49.1	-8.8	0.0	2351.1	56086.2
		-2630.0	-49.1	-8.7	0.0	2344.0	56075.5
		-2635.9	-49.3	-8.7	0.0	2331.2	56032.9
		-2636.6	-49.3	-8.7	0.0	2324.1	56022.3
		-2772.7	-47.9	-9.2	0.0	2462.3	56385.8
		-2773.5	-48.0	-9.2	0.0	2455.1	56375.1
		-2779.3	-48.1	-9.1	0.0	2442.4	56332.5
		-2780.1	-48.2	-9.1	0.0	2435.2	56321.8
		-2750.1	-48.1	-9.2	0.0	2460.9	56350.5
		-2750.8	-48.1	-9.1	0.0	2453.7	56339.8
		-2756.7	-48.3	-9.1	0.0	2441.0	56297.2
		-2757.4	-48.3	-9.1	0.0	2433.8	56286.5
537.		-2450.4	-547.6	-8.8	0.0	4705.1	-24375.7
		-2451.2	-547.7	-8.7	0.0	4690.8	-24397.0
		-2457.0	-547.8	-8.7	0.0	4665.3	-24482.3
		-2457.8	-547.9	-8.7	0.0	4651.0	-24503.6
		-2427.8	-547.8	-8.8	0.0	4702.3	-24446.3
		-2428.5	-547.8	-8.7	0.0	4688.0	-24467.6
		-2434.4	-548.0	-8.7	0.0	4662.5	-24552.9
		-2435.1	-548.0	-8.7	0.0	4648.2	-24574.2
		-2571.2	-546.7	-9.2	0.0	4924.6	-23847.2
		-2572.0	-546.7	-9.2	0.0	4910.3	-23868.5
		-2577.8	-546.9	-9.1	0.0	4884.8	-23953.7
		-2578.6	-546.9	-9.1	0.0	4870.5	-23975.1
		-2548.6	-546.8	-9.2	0.0	4921.8	-23917.7
		-2549.3	-546.8	-9.1	0.0	4907.4	-23939.1
		-2555.2	-547.0	-9.1	0.0	4881.9	-24024.3
		-2555.9	-547.0	-9.1	0.0	4867.6	-24045.7
Asta	36	nod	56	52			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.		-1076.3	681.0	-11.3	0.0	0.0	0.0
		-1084.3	680.9	-11.3	0.0	0.0	0.0
		-1094.7	680.7	-11.3	0.0	0.0	0.0
		-1102.6	680.6	-11.3	0.0	0.0	0.0
		-1056.9	680.9	-11.2	0.0	0.0	0.0
		-1064.9	680.8	-11.2	0.0	0.0	0.0
		-1075.2	680.6	-11.2	0.0	0.0	0.0
		-1083.2	680.5	-11.2	0.0	0.0	0.0
		-1144.7	681.5	-11.6	0.0	0.0	0.0
		-1152.7	681.4	-11.7	0.0	0.0	0.0
		-1163.0	681.3	-11.7	0.0	0.0	0.0
		-1171.0	681.2	-11.7	0.0	0.0	0.0
		-1125.3	681.4	-11.5	0.0	0.0	0.0
		-1133.3	681.3	-11.5	0.0	0.0	0.0
		-1143.6	681.1	-11.6	0.0	0.0	0.0
		-1151.6	681.0	-11.6	0.0	0.0	0.0
355.		-765.8	-87.4	-11.3	0.0	3993.7	104821.7
		-773.8	-87.5	-11.3	0.0	3997.8	104787.6
		-784.1	-87.7	-11.3	0.0	4014.7	104723.9
		-792.1	-87.8	-11.3	0.0	4018.8	104689.8
		-746.4	-87.5	-11.2	0.0	3955.9	104781.4
		-754.4	-87.6	-11.2	0.0	3960.0	104747.3
		-764.7	-87.8	-11.2	0.0	3976.9	104683.5
		-772.7	-87.9	-11.2	0.0	3981.0	104649.5
		-834.2	-86.9	-11.6	0.0	4128.2	105013.6
		-842.2	-87.0	-11.7	0.0	4132.3	104979.6

		-852.5	-87.1	-11.7	0.0	4149.2	104915.8
		-860.5	-87.2	-11.7	0.0	4153.3	104881.7
		-814.8	-87.0	-11.5	0.0	4090.4	104973.3
		-822.7	-87.1	-11.5	0.0	4094.5	104939.2
		-833.1	-87.3	-11.6	0.0	4111.4	104875.5
		-841.1	-87.4	-11.6	0.0	4115.5	104841.4
709.		-461.0	-841.8	-11.3	0.0	7987.4	-60327.7
		-468.9	-841.9	-11.3	0.0	7995.6	-60395.8
		-479.3	-842.1	-11.3	0.0	8029.4	-60523.3
		-487.3	-842.2	-11.3	0.0	8037.6	-60591.5
		-441.5	-841.9	-11.2	0.0	7911.8	-60408.4
		-449.5	-842.0	-11.2	0.0	7920.0	-60476.5
		-459.9	-842.2	-11.2	0.0	7953.8	-60604.0
		-467.8	-842.3	-11.2	0.0	7962.0	-60672.2
		-529.3	-841.2	-11.6	0.0	8256.4	-59943.8
		-537.3	-841.3	-11.7	0.0	8264.7	-60012.0
		-547.7	-841.5	-11.7	0.0	8298.4	-60139.5
		-555.6	-841.6	-11.7	0.0	8306.7	-60207.6
		-509.9	-841.4	-11.5	0.0	8180.8	-60024.5
		-517.9	-841.5	-11.5	0.0	8189.1	-60092.7
		-528.2	-841.6	-11.6	0.0	8222.8	-60220.2
		-536.2	-841.7	-11.6	0.0	8231.1	-60288.3
Asta	46	nod	34	65			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-219.9	433.0	-0.6	0.0	0.0	0.0	
	-219.9	433.0	-0.6	0.0	0.0	0.0	
	-219.9	433.0	-0.7	0.0	0.0	0.0	
	-219.9	433.0	-0.6	0.0	0.0	0.0	
	-219.9	433.0	-0.6	0.0	0.0	0.0	
	-219.9	433.0	-0.6	0.0	0.0	0.0	
	-219.9	433.0	-0.7	0.0	0.0	0.0	
	-219.9	433.0	-0.6	0.0	0.0	0.0	
	-219.9	433.0	-0.7	0.0	0.0	0.0	
	-219.9	433.0	-0.7	0.0	0.0	0.0	
	-219.9	433.0	-0.7	0.0	0.0	0.0	
	-219.9	433.0	-0.7	0.0	0.0	0.0	
	-219.9	433.0	-0.7	0.0	0.0	0.0	
	-219.9	433.0	-0.7	0.0	0.0	0.0	
	-219.9	433.0	-0.7	0.0	0.0	0.0	
	-219.9	433.0	-0.7	0.0	0.0	0.0	
	-219.9	433.0	-0.7	0.0	0.0	0.0	
450.	0.0	-111.2	-0.6	0.0	279.1	72438.6	
	0.0	-111.2	-0.6	0.0	268.5	72439.3	
	0.0	-111.2	-0.7	0.0	301.3	72436.8	
	0.0	-111.2	-0.6	0.0	290.7	72437.6	
	0.0	-111.2	-0.6	0.0	279.2	72438.6	
	0.0	-111.2	-0.6	0.0	268.6	72439.3	
	0.0	-111.2	-0.7	0.0	301.4	72436.8	
	0.0	-111.2	-0.6	0.0	290.8	72437.6	
	0.0	-111.2	-0.7	0.0	311.7	72438.4	
	0.0	-111.2	-0.7	0.0	301.1	72439.1	
	0.0	-111.2	-0.7	0.0	333.8	72436.6	
	0.0	-111.2	-0.7	0.0	323.2	72437.4	
	0.0	-111.2	-0.7	0.0	311.8	72438.4	
	0.0	-111.2	-0.7	0.0	301.2	72439.1	
	0.0	-111.2	-0.7	0.0	333.9	72436.6	
	0.0	-111.2	-0.7	0.0	323.3	72437.4	
901.	219.9	-655.4	-0.6	0.0	558.2	-100178.7	
	219.9	-655.4	-0.6	0.0	537.0	-100177.2	
	219.9	-655.5	-0.7	0.0	602.5	-100182.2	
	219.9	-655.5	-0.6	0.0	581.3	-100180.7	
	219.9	-655.4	-0.6	0.0	558.4	-100178.7	
	219.9	-655.4	-0.6	0.0	537.2	-100177.2	
	219.9	-655.5	-0.7	0.0	602.7	-100182.2	
	219.9	-655.5	-0.6	0.0	581.6	-100180.7	
	219.9	-655.4	-0.7	0.0	623.3	-100179.0	
	219.9	-655.4	-0.7	0.0	602.1	-100177.5	
	219.9	-655.5	-0.7	0.0	667.6	-100182.5	
	219.9	-655.5	-0.7	0.0	646.5	-100181.0	
	219.9	-655.4	-0.7	0.0	623.5	-100179.0	
	219.9	-655.4	-0.7	0.0	602.4	-100177.5	
	219.9	-655.5	-0.7	0.0	667.9	-100182.5	
	219.9	-655.5	-0.7	0.0	646.7	-100181.0	
Asta	47	nod	65	35			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	1613.8	871.7	-0.7	-2264.7	5481.2	-104917.6	
	1617.8	871.8	0.1	-2287.2	5587.5	-104927.0	
	1613.8	871.6	-2.2	-2221.6	5259.3	-104900.9	
	1617.9	871.7	-1.4	-2244.1	5365.6	-104910.3	
	1613.8	871.7	-0.7	-2264.7	5480.1	-104917.6	
	1617.8	871.8	0.1	-2287.2	5586.4	-104927.0	
	1613.8	871.6	-2.2	-2221.6	5258.2	-104900.9	
	1617.9	871.7	-1.5	-2244.1	5364.5	-104910.3	
	1613.7	871.7	1.5	-2222.1	5705.7	-104915.9	
	1617.8	871.7	2.2	-2244.6	5811.9	-104925.4	
	1613.8	871.6	-0.1	-2179.0	5483.8	-104899.2	
	1617.9	871.6	0.7	-2201.5	5590.0	-104908.6	
	1613.7	871.7	1.4	-2222.1	5704.6	-104915.9	
	1617.8	871.7	2.2	-2244.6	5810.8	-104925.4	
	1613.8	871.6	-0.1	-2179.0	5482.7	-104899.2	

78.	1617.9	871.6	0.7	-2201.5	5588.9	-104908.6
	1651.9	777.2	-0.7	-2264.7	5532.5	-40463.9
	1656.0	777.3	0.1	-2287.2	5581.1	-40468.6
	1651.9	777.1	-2.2	-2221.6	5430.1	-40455.5
	1656.0	777.1	-1.4	-2244.1	5478.6	-40460.3
	1651.9	777.2	-0.7	-2264.7	5532.0	-40463.9
	1656.0	777.3	0.1	-2287.2	5580.5	-40468.6
	1651.9	777.1	-2.2	-2221.6	5429.5	-40455.5
	1656.0	777.1	-1.5	-2244.1	5478.1	-40460.3
	1651.9	777.2	1.5	-2222.1	5592.0	-40463.2
	1655.9	777.2	2.2	-2244.6	5640.6	-40467.9
	1651.9	777.1	-0.1	-2179.0	5489.6	-40454.9
	1656.0	777.1	0.7	-2201.5	5538.2	-40459.6
	1651.9	777.2	1.4	-2222.1	5591.5	-40463.2
	1655.9	777.2	2.2	-2244.6	5640.1	-40467.9
	1651.9	777.1	-0.1	-2179.0	5489.1	-40454.9
	1656.0	777.1	0.7	-2201.5	5537.6	-40459.6
156.	1690.0	682.7	-0.7	-2264.7	5583.5	16601.5
	1694.1	682.8	0.1	-2287.2	5574.4	16601.5
	1690.1	682.6	-2.2	-2221.6	5601.2	16601.8
	1694.1	682.6	-1.4	-2244.1	5592.2	16601.8
	1690.0	682.7	-0.7	-2264.7	5583.5	16601.5
	1694.1	682.8	0.1	-2287.2	5574.4	16601.5
	1690.1	682.6	-2.2	-2221.6	5601.3	16601.8
	1694.1	682.6	-1.5	-2244.1	5592.2	16601.8
	1690.0	682.7	1.5	-2222.1	5478.0	16601.2
	1694.1	682.7	2.2	-2244.6	5468.9	16601.2
	1690.0	682.6	-0.1	-2179.0	5495.7	16601.6
	1694.1	682.6	0.7	-2201.5	5486.7	16601.6
	1690.0	682.7	1.4	-2222.1	5478.0	16601.2
	1694.1	682.7	2.2	-2244.6	5468.9	16601.2
	1690.0	682.6	-0.1	-2179.0	5495.7	16601.6
	1694.1	682.6	0.7	-2201.5	5486.7	16601.6
Asta PROGR. 0.	50	nod	63	46		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	3488.7	80.5	-0.2	0.0	0.0	0.0
	3481.0	80.5	-0.2	0.0	0.0	0.0
	3456.8	80.7	-0.2	0.0	0.0	0.0
	3449.2	80.7	-0.2	0.0	0.0	0.0
	3465.4	80.6	-0.2	0.0	0.0	0.0
	3457.7	80.7	-0.2	0.0	0.0	0.0
	3433.6	80.8	-0.2	0.0	0.0	0.0
	3425.9	80.9	-0.2	0.0	0.0	0.0
	3631.2	79.5	-0.1	0.0	0.0	0.0
	3623.5	79.6	-0.1	0.0	0.0	0.0
	3599.4	79.7	-0.1	0.0	0.0	0.0
	3591.7	79.8	-0.1	0.0	0.0	0.0
	3607.9	79.7	-0.1	0.0	0.0	0.0
	3600.2	79.7	-0.1	0.0	0.0	0.0
	3576.1	79.9	-0.1	0.0	0.0	0.0
	3568.4	79.9	-0.1	0.0	0.0	0.0
131.	3525.5	-48.4	-0.2	0.0	24.9	1678.0
	3517.8	-48.4	-0.2	0.0	24.6	1684.0
	3493.7	-48.2	-0.2	0.0	22.9	1705.5
	3486.0	-48.2	-0.2	0.0	22.6	1711.5
	3502.2	-48.3	-0.2	0.0	25.9	1696.4
	3494.6	-48.2	-0.2	0.0	25.6	1702.4
	3470.4	-48.1	-0.2	0.0	23.8	1723.9
	3462.7	-48.0	-0.2	0.0	23.5	1729.9
	3668.0	-49.4	-0.1	0.0	15.1	1553.6
	3660.4	-49.3	-0.1	0.0	14.8	1559.6
	3636.2	-49.1	-0.1	0.0	13.1	1581.1
	3628.5	-49.1	-0.1	0.0	12.8	1587.1
	3644.7	-49.2	-0.1	0.0	16.1	1572.0
	3637.1	-49.2	-0.1	0.0	15.8	1578.0
	3612.9	-49.0	-0.1	0.0	14.0	1599.5
	3605.2	-49.0	-0.1	0.0	13.7	1605.5
261.	3551.4	-139.0	-0.2	0.0	49.9	-10981.7
	3543.7	-138.9	-0.2	0.0	49.3	-10969.7
	3519.5	-138.7	-0.2	0.0	45.8	-10926.7
	3511.9	-138.7	-0.2	0.0	45.2	-10914.8
	3528.1	-138.8	-0.2	0.0	51.7	-10944.8
	3520.4	-138.8	-0.2	0.0	51.1	-10932.9
	3496.3	-138.6	-0.2	0.0	47.7	-10889.9
	3488.6	-138.6	-0.2	0.0	47.0	-10877.9
	3693.9	-139.9	-0.1	0.0	30.3	-11230.4
	3686.2	-139.9	-0.1	0.0	29.7	-11218.5
	3662.1	-139.7	-0.1	0.0	26.2	-11175.5
	3654.4	-139.6	-0.1	0.0	25.6	-11163.5
	3670.6	-139.8	-0.1	0.0	32.2	-11193.6
	3662.9	-139.7	-0.1	0.0	31.5	-11181.6
	3638.8	-139.6	-0.1	0.0	28.1	-11138.7
	3631.1	-139.5	-0.1	0.0	27.5	-11126.7
Asta PROGR. 0.	51	nod	46	48		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	2164.7	82.8	-0.5	-723.9	-36.4	-2880.9
	2158.7	82.9	-0.5	-723.9	-38.5	-2888.7
	2139.3	83.0	-0.4	-723.8	-50.3	-2903.2

		2133.3	83.1	-0.4	-723.7	-52.4	-2911.1
		2147.1	83.0	-0.5	-723.9	-30.0	-2905.0
		2141.1	83.0	-0.5	-723.9	-32.1	-2912.9
		2121.8	83.2	-0.4	-723.8	-43.9	-2927.4
		2115.7	83.3	-0.4	-723.8	-46.0	-2935.3
		2268.2	82.2	-0.9	-723.6	-103.1	-2775.3
		2262.2	82.2	-1.0	-723.6	-105.2	-2783.1
		2242.9	82.4	-0.8	-723.4	-117.0	-2797.6
		2236.8	82.5	-0.8	-723.4	-119.1	-2805.5
		2250.7	82.3	-0.9	-723.6	-96.7	-2799.4
		2244.7	82.4	-0.9	-723.6	-98.9	-2807.3
		2225.3	82.6	-0.8	-723.4	-110.6	-2821.8
113.		2219.3	82.6	-0.8	-723.4	-112.8	-2829.7
		2182.5	20.4	-0.5	-723.9	18.1	2872.7
		2176.5	20.5	-0.5	-723.9	17.7	2872.3
		2157.1	20.7	-0.4	-723.8	11.1	2902.3
		2151.1	20.7	-0.4	-723.7	10.7	2901.9
		2165.0	20.6	-0.5	-723.9	20.8	2868.0
		2158.9	20.7	-0.5	-723.9	20.4	2867.6
		2139.6	20.9	-0.4	-723.8	13.8	2897.6
		2133.6	20.9	-0.4	-723.8	13.4	2897.2
		2286.1	19.8	-0.9	-723.6	-10.6	2998.8
		2280.0	19.9	-1.0	-723.6	-11.0	2998.5
		2260.7	20.0	-0.8	-723.4	-17.6	3028.4
		2254.7	20.1	-0.8	-723.4	-18.0	3028.0
		2268.5	20.0	-0.9	-723.6	-7.9	2994.1
		2262.5	20.0	-0.9	-723.6	-8.3	2993.8
		2243.1	20.2	-0.8	-723.4	-14.8	3023.7
225.		2237.1	20.3	-0.8	-723.4	-15.2	3023.3
		2200.3	-41.9	-0.5	-723.9	103.0	1781.7
		2194.3	-41.8	-0.5	-723.9	104.3	1788.8
		2175.0	-41.7	-0.4	-723.8	88.9	1833.3
		2168.9	-41.6	-0.4	-723.7	90.2	1840.5
		2182.8	-41.7	-0.5	-723.9	102.1	1796.5
		2176.8	-41.7	-0.5	-723.9	103.3	1803.6
		2157.4	-41.5	-0.4	-723.8	88.0	1848.1
		2151.4	-41.4	-0.4	-723.8	89.3	1855.2
		2303.9	-42.6	-0.9	-723.6	65.5	1605.2
		2297.9	-42.5	-1.0	-723.6	66.8	1612.3
		2278.5	-42.3	-0.8	-723.4	51.5	1656.9
		2272.5	-42.3	-0.8	-723.4	52.8	1664.0
		2286.3	-42.4	-0.9	-723.6	64.6	1620.0
		2280.3	-42.3	-0.9	-723.6	65.9	1627.1
		2261.0	-42.1	-0.8	-723.4	50.5	1671.6
		2254.9	-42.1	-0.8	-723.4	51.8	1678.8
Asta	52	nod1	48	50			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-685.4	230.7	-1.8	-1861.6	-127.2	-10083.4	
	-685.9	230.6	-1.7	-1861.2	-126.8	-10093.5	
	-697.5	229.9	-1.9	-1860.3	-157.4	-10205.4	
	-698.0	229.8	-1.9	-1859.9	-157.0	-10215.5	
	-684.8	230.6	-1.8	-1861.7	-120.9	-10127.3	
	-685.3	230.5	-1.8	-1861.3	-120.5	-10137.4	
	-696.9	229.8	-2.0	-1860.3	-151.1	-10249.2	
	-697.3	229.7	-1.9	-1859.9	-150.7	-10259.3	
	-734.5	232.9	-2.7	-1862.7	-217.8	-9450.4	
	-735.0	232.8	-2.6	-1862.3	-217.3	-9460.5	
	-746.5	232.1	-2.8	-1861.4	-248.0	-9572.3	
	-747.0	232.0	-2.8	-1861.0	-247.6	-9582.4	
	-733.9	232.7	-2.7	-1862.8	-211.5	-9494.2	
	-734.3	232.7	-2.7	-1862.4	-211.1	-9504.3	
	-745.9	232.0	-2.9	-1861.5	-241.7	-9616.2	
	-746.4	231.9	-2.8	-1861.1	-241.3	-9626.3	
123.	-666.0	162.7	-1.8	-1861.6	67.8	14185.5	
	-666.5	162.7	-1.7	-1861.2	60.1	14171.3	
	-678.0	161.9	-1.9	-1860.3	45.6	14093.8	
	-678.5	161.9	-1.9	-1859.9	37.9	14079.6	
	-665.4	162.6	-1.8	-1861.7	80.6	14128.6	
	-665.9	162.6	-1.8	-1861.3	73.0	14114.4	
	-677.4	161.8	-2.0	-1860.3	58.5	14036.9	
	-677.9	161.8	-1.9	-1859.9	50.8	14022.7	
	-715.0	164.9	-2.7	-1862.7	145.7	14700.7	
	-715.5	164.8	-2.6	-1862.3	138.0	14686.6	
	-727.1	164.1	-2.8	-1861.4	123.5	14609.0	
	-727.6	164.1	-2.8	-1861.0	115.8	14594.8	
	-714.4	164.8	-2.7	-1862.8	158.5	14643.8	
	-714.9	164.7	-2.7	-1862.4	150.8	14629.6	
	-726.5	164.0	-2.9	-1861.5	136.3	14552.1	
	-727.0	163.9	-2.8	-1861.1	128.6	14537.9	
245.	-646.6	94.7	-1.8	-1861.6	278.6	30090.0	
	-647.1	94.7	-1.7	-1861.2	262.8	30071.7	
	-658.6	93.9	-1.9	-1860.3	310.4	29945.7	
	-659.1	93.9	-1.9	-1859.9	294.6	29927.4	
	-646.0	94.6	-1.8	-1861.7	298.1	30020.0	
	-646.5	94.6	-1.8	-1861.3	282.3	30001.7	
	-658.0	93.8	-2.0	-1860.3	329.9	29875.7	
	-658.5	93.8	-1.9	-1859.9	314.1	29857.4	
	-695.6	96.9	-2.7	-1862.7	447.3	30612.9	
	-696.1	96.9	-2.6	-1862.3	431.5	30594.6	
	-707.7	96.1	-2.8	-1861.4	479.1	30468.6	

		-708.2	96.1	-2.8	-1861.0	463.3	30450.3
		-695.0	96.8	-2.7	-1862.8	466.7	30543.0
		-695.5	96.8	-2.7	-1862.4	450.9	30524.7
		-707.1	96.0	-2.9	-1861.5	498.5	30398.7
		-707.6	96.0	-2.8	-1861.1	482.8	30380.4
Asta	53	nod	50	52			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-4398.2	318.1	6.6	-3878.3	-45.8	-4043.5	
	-4388.9	318.1	6.1	-3875.1	-78.7	-4091.7	
	-4352.5	319.7	5.3	-3857.3	-123.6	-4334.5	
	-4343.2	319.7	4.8	-3854.1	-156.5	-4382.7	
	-4368.2	318.9	7.6	-3875.8	5.8	-4220.7	
	-4359.0	318.9	7.1	-3872.5	-27.1	-4268.8	
	-4322.5	320.5	6.3	-3854.8	-72.0	-4511.7	
	-4313.2	320.5	5.8	-3851.5	-105.0	-4559.9	
	-4584.4	303.5	2.4	-3893.6	275.0	-2713.7	
	-4575.2	303.5	1.9	-3890.4	242.1	-2761.9	
	-4538.7	305.2	1.1	-3872.6	197.2	-3004.8	
	-4529.5	305.2	0.5	-3869.4	164.3	-3052.9	
	-4554.5	304.3	3.4	-3891.1	326.6	-2890.9	
	-4545.2	304.3	2.9	-3887.8	293.6	-2939.1	
	-4508.8	306.0	2.0	-3870.1	248.7	-3181.9	
	-4499.5	306.0	1.5	-3866.8	215.8	-3230.1	
118.	-4379.5	252.9	6.6	-3878.3	-538.3	29699.3	
	-4370.3	252.9	6.1	-3875.1	-511.5	29651.7	
	-4333.8	254.5	5.3	-3857.3	-447.2	29553.5	
	-4324.6	254.5	4.8	-3854.1	-420.4	29505.8	
	-4349.6	253.7	7.6	-3875.8	-603.6	29616.2	
	-4340.3	253.7	7.1	-3872.5	-576.8	29568.5	
	-4303.9	255.3	6.3	-3854.8	-512.5	29470.4	
	-4294.6	255.3	5.8	-3851.5	-485.7	29422.7	
	-4565.8	238.4	2.4	-3893.6	-305.3	29065.3	
	-4556.5	238.4	1.9	-3890.4	-278.6	29017.6	
	-4520.1	240.0	1.1	-3872.6	-214.2	28919.5	
	-4510.8	240.0	0.5	-3869.4	-187.5	28871.8	
	-4535.9	239.2	3.4	-3891.1	-370.6	28982.1	
	-4526.6	239.2	2.9	-3887.8	-343.8	28934.5	
	-4490.2	240.8	2.0	-3870.1	-279.5	28836.3	
235.	-4480.9	240.8	1.5	-3866.8	-252.7	28788.7	
	-4360.9	187.7	6.6	-3878.3	-1305.2	55491.6	
	-4351.6	187.7	6.1	-3875.1	-1218.7	55444.5	
	-4315.2	189.4	5.3	-3857.3	-1057.6	55668.8	
	-4305.9	189.4	4.8	-3854.1	-971.1	55621.6	
	-4331.0	188.5	7.6	-3875.8	-1487.2	55502.5	
	-4321.7	188.5	7.1	-3872.5	-1400.7	55455.3	
	-4285.3	190.2	6.3	-3854.8	-1239.6	55679.7	
	-4276.0	190.2	5.8	-3851.5	-1153.1	55632.5	
	-4547.2	173.2	2.4	-3893.6	-599.0	53280.5	
	-4537.9	173.2	1.9	-3890.4	-512.4	53233.3	
	-4501.5	174.8	1.1	-3872.6	-351.4	53457.7	
	-4492.2	174.8	0.5	-3869.4	-264.9	53410.5	
	-4517.2	174.0	3.4	-3891.1	-781.0	53291.4	
	-4508.0	174.0	2.9	-3887.8	-694.5	53244.2	
	-4471.5	175.6	2.0	-3870.1	-533.4	53468.6	
	-4462.2	175.6	1.5	-3866.8	-446.9	53421.4	
Asta	55	nod	66	62			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-24.0	343.1	107.4	9527.3	17905.6	-34971.8	
	-29.7	342.6	107.2	9513.0	17857.5	-34878.1	
	-22.1	341.9	105.6	9460.5	17596.9	-34700.9	
	-27.8	341.3	105.4	9446.2	17548.8	-34607.1	
	-24.2	342.0	108.1	9519.7	18040.5	-34732.6	
	-29.9	341.5	107.9	9505.4	17992.4	-34638.8	
	-22.3	340.7	106.3	9452.9	17731.8	-34461.6	
	-28.0	340.2	106.0	9438.6	17683.7	-34367.9	
	37.1	367.6	98.4	9312.3	16510.8	-38920.9	
	31.4	367.1	98.1	9297.9	16462.6	-38827.2	
	39.0	366.3	96.6	9245.5	16202.1	-38650.0	
	33.3	365.8	96.3	9231.2	16153.9	-38556.3	
	36.8	366.4	99.1	9304.7	16645.7	-38681.7	
	31.2	365.9	98.8	9290.3	16597.5	-38588.0	
	38.7	365.2	97.2	9237.9	16337.0	-38410.8	
	33.0	364.6	97.0	9223.6	16288.8	-38317.0	
107.	8.6	228.9	107.4	9527.3	6454.9	-4694.5	
	2.9	228.4	107.2	9513.0	6435.5	-4654.6	
	10.5	227.7	105.6	9460.5	6336.3	-4547.9	
	4.8	227.2	105.4	9446.2	6316.9	-4508.0	
	8.4	227.8	108.1	9519.7	6518.1	-4578.8	
	2.7	227.3	107.9	9505.4	6498.7	-4538.9	
	10.2	226.5	106.3	9452.9	6399.4	-4432.2	
	4.5	226.0	106.0	9438.6	6380.1	-4392.3	
	69.7	253.4	98.4	9312.3	6019.8	-6043.9	
	64.0	252.9	98.1	9297.9	6000.4	-6004.0	
	71.6	252.1	96.6	9245.5	5901.2	-5897.3	
	65.9	251.6	96.3	9231.2	5881.8	-5857.3	
	69.4	252.2	99.1	9304.7	6083.0	-5928.1	
	63.7	251.7	98.8	9290.3	6063.6	-5888.2	
	71.3	251.0	97.2	9237.9	5964.4	-5781.5	
	65.6	250.5	97.0	9223.6	5945.0	-5741.6	

213.	34.2	139.3	107.4	9527.3	-4925.7	14750.1
	28.5	138.8	107.2	9513.0	-4916.3	14736.2
	36.1	138.0	105.6	9460.5	-5017.8	14673.4
	30.4	137.5	105.4	9446.2	-5008.5	14659.4
	33.9	138.1	108.1	9519.7	-4934.3	14742.4
	28.2	137.6	107.9	9505.4	-4924.9	14728.5
	35.8	136.9	106.3	9452.9	-5026.4	14665.6
	30.1	136.4	106.0	9438.6	-5017.0	14651.7
	95.2	163.7	98.4	9312.3	-4377.7	16032.6
	89.6	163.2	98.1	9297.9	-4368.3	16018.7
	97.1	162.5	96.6	9245.5	-4469.8	15955.8
	91.4	162.0	96.3	9231.2	-4460.4	15941.9
	95.0	162.6	99.1	9304.7	-4386.2	16024.9
	89.3	162.1	98.8	9290.3	-4376.9	16010.9
	96.9	161.3	97.2	9237.9	-4478.4	15948.1
	91.2	160.8	97.0	9223.6	-4469.0	15934.2
Asta	73	nod	80	32		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	575.6	574.3	4.5	322.3	-91.1	-130745.1
	581.6	573.6	4.4	324.2	-98.8	-130642.2
	569.3	575.6	4.7	315.3	-56.3	-130936.0
	575.3	574.9	4.7	317.2	-63.9	-130833.2
	575.6	574.3	4.4	322.9	-111.4	-130745.1
	581.6	573.6	4.3	324.7	-119.0	-130642.2
	569.3	575.6	4.6	315.9	-76.5	-130936.0
	575.3	574.9	4.5	317.7	-84.2	-130833.2
	576.7	574.7	-4.5	187.4	-1167.7	-130756.9
	582.7	574.0	-4.6	189.2	-1175.4	-130654.0
	570.4	576.0	-4.3	180.3	-1132.9	-130947.9
	576.4	575.4	-4.4	182.2	-1140.5	-130845.0
	576.7	574.7	-4.7	187.9	-1188.0	-130756.9
	582.7	574.0	-4.7	189.8	-1195.6	-130654.0
	570.4	576.0	-4.4	180.9	-1153.1	-130947.9
	576.4	575.4	-4.5	182.7	-1160.8	-130845.0
78.	635.0	427.0	4.5	322.3	-441.7	-91600.7
	641.0	426.4	4.4	324.2	-445.2	-91549.3
	628.7	428.3	4.7	315.3	-425.7	-91698.6
	634.7	427.7	4.7	317.2	-429.1	-91647.2
	635.0	427.0	4.4	322.9	-451.7	-91600.7
	641.0	426.4	4.3	324.7	-455.2	-91549.3
	628.7	428.3	4.6	315.9	-435.7	-91698.6
	634.7	427.7	4.5	317.7	-439.1	-91647.2
	636.1	427.5	-4.5	187.4	-812.8	-91578.0
	642.1	426.8	-4.6	189.2	-816.2	-91526.6
	629.8	428.8	-4.3	180.3	-796.7	-91675.9
	635.8	428.1	-4.4	182.2	-800.2	-91624.5
	636.1	427.5	-4.7	187.9	-822.8	-91578.0
	642.1	426.8	-4.7	189.8	-826.2	-91526.6
	629.8	428.8	-4.4	180.9	-806.7	-91675.9
	635.8	428.1	-4.5	182.7	-810.2	-91624.5
156.	694.4	279.8	4.5	322.3	-792.3	-63937.2
	700.4	279.1	4.4	324.2	-791.6	-63937.2
	688.1	281.1	4.7	315.3	-795.1	-64003.5
	694.1	280.4	4.7	317.2	-794.4	-64003.4
	694.4	279.8	4.4	322.9	-792.1	-63937.2
	700.4	279.1	4.3	324.7	-791.3	-63937.2
	688.1	281.1	4.6	315.9	-794.9	-64003.5
	694.1	280.4	4.5	317.7	-794.2	-64003.4
	695.5	280.2	-4.5	187.4	-457.7	-63879.9
	701.5	279.5	-4.6	189.2	-457.0	-63879.9
	689.2	281.5	-4.3	180.3	-460.6	-63946.2
	695.2	280.9	-4.4	182.2	-459.8	-63946.2
	695.5	280.2	-4.7	187.9	-457.5	-63879.9
	701.5	279.5	-4.7	189.8	-456.8	-63879.9
	689.2	281.5	-4.4	180.9	-460.3	-63946.2
	695.2	280.9	-4.5	182.7	-459.6	-63946.2
Asta	74	nod	81	29		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	2474.6	1341.9	13.5	444.3	964.9	-161305.0
	2479.3	1341.9	13.3	452.2	935.5	-161316.3
	2474.7	1341.6	12.3	466.3	787.6	-161265.5
	2479.4	1341.7	12.1	474.1	758.2	-161276.8
	2474.6	1341.9	13.5	444.3	963.4	-161305.0
	2479.3	1341.9	13.3	452.2	934.0	-161316.3
	2474.7	1341.6	12.3	466.3	786.1	-161265.5
	2479.4	1341.7	12.1	474.2	756.7	-161276.8
	2474.5	1341.8	-12.1	60.7	-2082.4	-161301.4
	2479.3	1341.9	-12.3	68.5	-2111.8	-161312.7
	2474.6	1341.6	-13.3	82.7	-2259.7	-161262.0
	2479.4	1341.7	-13.5	90.5	-2289.1	-161273.2
	2474.5	1341.8	-12.1	60.7	-2083.9	-161301.4
	2479.3	1341.9	-12.3	68.6	-2113.3	-161312.7
	2474.6	1341.6	-13.3	82.7	-2261.2	-161262.0
	2479.4	1341.7	-13.5	90.5	-2290.6	-161273.2
78.	2534.0	1194.6	13.5	444.3	-89.7	-62156.4
	2538.8	1194.7	13.3	452.2	-102.8	-62162.0
	2534.1	1194.4	12.3	466.3	-174.0	-62136.7
	2538.9	1194.4	12.1	474.1	-187.1	-62142.3
	2534.0	1194.6	13.5	444.3	-90.4	-62156.4

	2538.8	1194.7	13.3	452.2	-103.5	-62162.0
	2534.1	1194.4	12.3	466.3	-174.7	-62136.7
	2538.9	1194.4	12.1	474.2	-187.8	-62142.3
	2533.9	1194.6	-12.1	60.7	-1137.9	-62154.9
	2538.7	1194.7	-12.3	68.5	-1151.0	-62160.6
	2534.0	1194.3	-13.3	82.7	-1222.2	-62135.2
	2538.8	1194.4	-13.5	90.5	-1235.3	-62140.8
	2533.9	1194.6	-12.1	60.7	-1138.6	-62154.9
	2538.7	1194.7	-12.3	68.6	-1151.7	-62160.6
	2534.0	1194.3	-13.3	82.7	-1223.0	-62135.2
	2538.8	1194.4	-13.5	90.5	-1236.1	-62140.8
156.	2593.4	1047.4	13.5	444.3	-1144.7	25480.6
	2598.2	1047.4	13.3	452.2	-1141.6	25480.6
	2593.5	1047.1	12.3	466.3	-1135.0	25480.7
	2598.3	1047.2	12.1	474.1	-1131.8	25480.7
	2593.4	1047.4	13.5	444.3	-1144.7	25480.6
	2598.2	1047.4	13.3	452.2	-1141.6	25480.6
	2593.5	1047.1	12.3	466.3	-1135.0	25480.7
	2598.3	1047.2	12.1	474.2	-1131.8	25480.7
	2593.3	1047.3	-12.1	60.7	-193.9	25480.0
	2598.1	1047.4	-12.3	68.5	-190.7	25480.0
	2593.4	1047.1	-13.3	82.7	-184.2	25480.0
	2598.2	1047.2	-13.5	90.5	-181.0	25480.0
	2593.3	1047.3	-12.1	60.7	-193.9	25480.0
	2598.1	1047.4	-12.3	68.6	-190.7	25480.0
	2593.4	1047.1	-13.3	82.7	-184.2	25480.0
	2598.2	1047.2	-13.5	90.5	-181.0	25480.0
Asta	75	nodr	82	26		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	1058.7	766.9	20.0	268.0	2450.9	-138710.5
	1062.6	766.7	20.0	266.7	2456.5	-138686.4
	1046.0	768.9	20.2	274.2	2485.1	-139008.9
	1050.0	768.7	20.2	272.9	2490.6	-138984.7
	1058.7	766.9	19.8	268.5	2430.8	-138710.5
	1062.6	766.7	19.9	267.3	2436.3	-138686.3
	1046.0	768.9	20.1	274.7	2464.9	-139008.9
	1050.0	768.7	20.1	273.5	2470.4	-138984.7
	1060.1	767.5	-20.1	-332.4	-2324.4	-138727.6
	1064.0	767.3	-20.1	-333.7	-2318.8	-138703.5
	1047.5	769.4	-19.9	-326.2	-2290.2	-139026.0
	1051.4	769.3	-19.8	-327.4	-2284.7	-139001.8
	1060.1	767.5	-20.2	-331.9	-2344.5	-138727.6
	1064.0	767.3	-20.2	-333.1	-2339.0	-138703.5
	1047.5	769.4	-20.0	-325.7	-2310.4	-139026.0
	1051.4	769.3	-20.0	-326.9	-2304.9	-139001.8
78.	1118.1	619.6	20.0	268.0	890.6	-84509.2
	1122.0	619.5	20.0	266.7	893.2	-84497.1
	1105.4	621.6	20.2	274.2	906.5	-84660.0
	1109.4	621.5	20.2	272.9	909.0	-84648.0
	1118.1	619.6	19.8	268.5	880.6	-84509.2
	1122.0	619.5	19.9	267.3	883.2	-84497.1
	1105.4	621.6	20.1	274.7	896.5	-84660.0
	1109.4	621.5	20.1	273.5	899.0	-84648.0
	1119.5	620.2	-20.1	-332.4	-752.9	-84481.5
	1123.5	620.1	-20.1	-333.7	-750.4	-84469.4
	1106.9	622.2	-19.9	-326.2	-737.1	-84632.3
	1110.8	622.0	-19.8	-327.4	-734.6	-84620.3
	1119.5	620.2	-20.2	-331.9	-762.9	-84481.5
	1123.5	620.1	-20.2	-333.1	-760.4	-84469.4
	1106.9	622.2	-20.0	-325.7	-747.1	-84632.3
	1110.8	622.0	-20.0	-326.9	-744.6	-84620.3
156.	1177.5	472.4	20.0	268.0	-672.2	-41851.0
	1181.4	472.2	20.0	266.7	-672.7	-41851.1
	1164.8	474.4	20.2	274.2	-669.7	-41791.0
	1168.8	474.2	20.2	272.9	-670.2	-41791.1
	1177.5	472.4	19.8	268.5	-672.0	-41851.0
	1181.4	472.2	19.9	267.3	-672.5	-41851.1
	1164.8	474.4	20.1	274.7	-669.4	-41791.0
	1168.8	474.2	20.1	273.5	-669.9	-41791.1
	1178.9	473.0	-20.1	-332.4	816.0	-41778.6
	1182.9	472.8	-20.1	-333.7	815.5	-41778.6
	1166.3	474.9	-19.9	-326.2	818.5	-41718.6
	1170.2	474.8	-19.8	-327.4	818.0	-41718.6
	1178.9	473.0	-20.2	-331.9	816.2	-41778.6
	1182.9	472.8	-20.2	-333.1	815.7	-41778.6
	1166.3	474.9	-20.0	-325.7	818.7	-41718.6
	1170.2	474.8	-20.0	-326.9	818.2	-41718.6
Asta	76	nodr	83	23		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	2467.7	1338.8	26.0	374.9	3177.2	-160900.7
	2470.7	1338.8	25.8	376.9	3150.6	-160904.1
	2467.9	1338.5	27.5	339.1	3402.7	-160847.3
	2470.8	1338.5	27.3	341.0	3376.1	-160850.8
	2467.7	1338.8	25.9	374.9	3175.7	-160900.7
	2470.7	1338.8	25.8	376.9	3149.0	-160904.1
	2467.9	1338.5	27.5	339.1	3401.2	-160847.3
	2470.8	1338.5	27.3	341.1	3374.6	-160850.8
	2467.7	1338.8	-27.3	-425.0	-3166.0	-160897.8
	2470.6	1338.8	-27.5	-423.1	-3192.7	-160901.3

		2467.8	1338.4	-25.8	-460.8	-2940.5	-160844.5
		2470.7	1338.5	-25.9	-458.9	-2967.1	-160847.9
		2467.7	1338.8	-27.3	-425.0	-3167.6	-160897.8
		2470.6	1338.8	-27.5	-423.1	-3194.2	-160901.3
		2467.8	1338.4	-25.8	-460.8	-2942.0	-160844.5
		2470.7	1338.5	-26.0	-458.9	-2968.6	-160847.9
78.		2527.1	1191.6	26.0	374.9	1148.4	-61991.1
		2530.1	1191.6	25.8	376.9	1135.5	-61992.8
		2527.3	1191.2	27.5	339.1	1254.1	-61964.4
		2530.2	1191.2	27.3	341.0	1241.2	-61966.2
		2527.1	1191.6	25.9	374.9	1147.7	-61991.1
		2530.1	1191.6	25.8	376.9	1134.7	-61992.8
		2527.3	1191.2	27.5	339.1	1253.3	-61964.4
		2530.2	1191.2	27.3	341.1	1240.4	-61966.2
		2527.1	1191.5	-27.3	-425.0	-1031.8	-61989.9
		2530.0	1191.6	-27.5	-423.1	-1044.7	-61991.7
		2527.2	1191.2	-25.8	-460.8	-926.1	-61963.3
		2530.1	1191.2	-25.9	-458.9	-939.1	-61965.0
		2527.1	1191.5	-27.3	-425.0	-1032.6	-61989.9
		2530.0	1191.6	-27.5	-423.1	-1045.5	-61991.7
		2527.2	1191.2	-25.8	-460.8	-926.9	-61963.3
		2530.1	1191.2	-26.0	-458.9	-939.8	-61965.0
156.		2586.5	1044.3	26.0	374.9	-880.0	25407.0
		2589.5	1044.3	25.8	376.9	-879.3	25407.0
		2586.7	1044.0	27.5	339.1	-894.8	25406.9
		2589.6	1044.0	27.3	341.0	-894.1	25406.9
		2586.5	1044.3	25.9	374.9	-880.0	25407.0
		2589.5	1044.3	25.8	376.9	-879.3	25407.0
		2586.7	1044.0	27.5	339.1	-894.8	25406.9
		2589.6	1044.0	27.3	341.1	-894.1	25406.9
		2586.5	1044.3	-27.3	-425.0	1102.7	25406.5
		2589.4	1044.3	-27.5	-423.1	1103.5	25406.5
		2586.6	1043.9	-25.8	-460.8	1087.9	25406.4
		2589.6	1044.0	-25.9	-458.9	1088.7	25406.4
		2586.5	1044.3	-27.3	-425.0	1102.7	25406.5
		2589.4	1044.3	-27.5	-423.1	1103.5	25406.5
		2586.6	1043.9	-25.8	-460.8	1087.9	25406.4
		2589.6	1044.0	-26.0	-458.9	1088.7	25406.4
Asta	77	nod	84	20			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	992.6	738.7	30.6	461.9	3632.9	-137647.8	
	994.6	738.6	30.6	461.2	3637.9	-137634.3	
	975.9	741.3	30.5	465.2	3616.5	-138051.0	
	977.9	741.2	30.5	464.6	3621.6	-138037.6	
	992.6	738.7	30.5	462.4	3612.7	-137647.8	
	994.6	738.6	30.5	461.8	3617.7	-137634.4	
	975.9	741.3	30.3	465.8	3596.4	-138051.0	
	977.9	741.2	30.4	465.1	3601.4	-138037.6	
	993.2	738.9	-30.4	-451.7	-3634.5	-137655.3	
	995.3	738.8	-30.3	-452.4	-3629.4	-137641.8	
	976.5	741.5	-30.5	-448.4	-3650.8	-138058.5	
	978.6	741.5	-30.5	-449.0	-3645.8	-138045.1	
	993.2	738.9	-30.5	-451.2	-3654.7	-137655.3	
	995.3	738.8	-30.5	-451.8	-3649.6	-137641.9	
	976.5	741.5	-30.6	-447.8	-3671.0	-138058.6	
	978.6	741.5	-30.6	-448.4	-3666.0	-138045.1	
78.	1052.0	591.4	30.6	461.9	1241.8	-85654.8	
	1054.0	591.3	30.6	461.2	1244.1	-85647.9	
	1035.3	594.0	30.5	465.2	1234.3	-85856.1	
	1037.3	593.9	30.5	464.6	1236.6	-85849.2	
	1052.0	591.4	30.5	462.4	1231.8	-85654.8	
	1054.0	591.3	30.5	461.8	1234.2	-85647.9	
	1035.3	594.0	30.3	465.8	1224.3	-85856.1	
	1037.3	593.9	30.4	465.1	1226.7	-85849.2	
	1052.6	591.7	-30.4	-451.7	-1259.7	-85642.3	
	1054.7	591.6	-30.3	-452.4	-1257.3	-85635.4	
	1035.9	594.3	-30.5	-448.4	-1267.2	-85843.6	
	1038.0	594.2	-30.5	-449.0	-1264.8	-85836.7	
	1052.6	591.7	-30.5	-451.2	-1269.7	-85642.3	
	1054.7	591.6	-30.5	-451.8	-1267.3	-85635.4	
	1035.9	594.3	-30.6	-447.8	-1277.2	-85843.6	
	1038.0	594.2	-30.6	-448.4	-1274.8	-85836.7	
156.	1111.4	444.2	30.6	461.9	-1149.4	-45150.6	
	1113.4	444.1	30.6	461.2	-1149.7	-45150.2	
	1094.7	446.8	30.5	465.2	-1148.0	-45195.5	
	1096.7	446.7	30.5	464.6	-1148.3	-45195.1	
	1111.4	444.2	30.5	462.4	-1149.2	-45150.6	
	1113.4	444.1	30.5	461.8	-1149.4	-45150.2	
	1094.7	446.8	30.3	465.8	-1147.8	-45195.5	
	1096.7	446.7	30.4	465.1	-1148.1	-45195.1	
	1112.0	444.4	-30.4	-451.7	1115.1	-45118.1	
	1114.1	444.3	-30.3	-452.4	1114.8	-45117.6	
	1095.3	447.0	-30.5	-448.4	1116.5	-45163.0	
	1097.4	447.0	-30.5	-449.0	1116.2	-45162.6	
	1112.0	444.4	-30.5	-451.2	1115.3	-45118.1	
	1114.1	444.3	-30.5	-451.8	1115.0	-45117.6	
	1095.3	447.0	-30.6	-447.8	1116.7	-45163.0	
	1097.4	447.0	-30.6	-448.4	1116.4	-45162.6	
Asta	78	nod	85	17			

PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	2470.4	1339.6	33.8	481.8	4049.9	-161004.4
	2471.5	1339.6	33.6	485.1	4023.1	-161004.7
	2470.6	1339.2	33.2	500.8	3968.1	-160941.3
	2471.7	1339.2	33.0	504.0	3941.3	-160941.5
	2470.4	1339.6	33.7	481.8	4048.4	-161004.4
	2471.5	1339.6	33.6	485.1	4021.6	-161004.7
	2470.6	1339.2	33.2	500.8	3966.5	-160941.3
	2471.7	1339.2	33.0	504.0	3939.8	-160941.5
	2470.4	1339.6	-33.0	-520.6	-3900.7	-161003.7
	2471.5	1339.6	-33.2	-517.4	-3927.5	-161004.0
	2470.6	1339.2	-33.6	-501.7	-3982.5	-160940.6
	2471.7	1339.2	-33.7	-498.5	-4009.3	-160940.8
	2470.4	1339.6	-33.0	-520.6	-3902.2	-161003.7
	2471.5	1339.6	-33.2	-517.4	-3929.0	-161004.0
	2470.6	1339.2	-33.6	-501.7	-3984.0	-160940.6
	2471.7	1339.2	-33.7	-498.5	-4010.8	-160940.8
78.	2529.8	1192.3	33.8	481.8	1411.3	-62034.4
	2530.9	1192.3	33.6	485.1	1398.6	-62034.5
	2530.0	1191.9	33.2	500.8	1373.9	-62002.8
	2531.1	1191.9	33.0	504.0	1361.2	-62002.9
	2529.8	1192.3	33.7	481.8	1410.5	-62034.4
	2530.9	1192.3	33.6	485.1	1397.8	-62034.5
	2530.0	1191.9	33.2	500.8	1373.2	-62002.8
	2531.1	1191.9	33.0	504.0	1360.5	-62002.9
	2529.8	1192.3	-33.0	-520.6	-1321.7	-62034.1
	2530.9	1192.3	-33.2	-517.4	-1334.4	-62034.2
	2530.0	1191.9	-33.6	-501.7	-1359.0	-62002.5
	2531.1	1191.9	-33.7	-498.5	-1371.7	-62002.6
	2529.8	1192.3	-33.0	-520.6	-1322.5	-62034.1
	2530.9	1192.3	-33.2	-517.4	-1335.1	-62034.2
	2530.0	1191.9	-33.6	-501.7	-1359.8	-62002.5
	2531.1	1191.9	-33.7	-498.5	-1372.5	-62002.6
156.	2589.3	1045.1	33.8	481.8	-1227.8	25424.1
	2590.3	1045.1	33.6	485.1	-1226.4	25424.1
	2589.4	1044.7	33.2	500.8	-1219.8	25424.2
	2590.5	1044.7	33.0	504.0	-1218.4	25424.2
	2589.3	1045.1	33.7	481.8	-1227.8	25424.1
	2590.3	1045.1	33.6	485.1	-1226.4	25424.1
	2589.4	1044.7	33.2	500.8	-1219.8	25424.2
	2590.5	1044.7	33.0	504.0	-1218.4	25424.2
	2589.2	1045.1	-33.0	-520.6	1256.9	25424.0
	2590.3	1045.1	-33.2	-517.4	1258.3	25424.0
	2589.4	1044.7	-33.6	-501.7	1264.8	25424.1
	2590.5	1044.7	-33.7	-498.5	1266.2	25424.1
	2589.2	1045.1	-33.0	-520.6	1256.9	25424.0
	2590.3	1045.1	-33.2	-517.4	1258.3	25424.0
	2589.4	1044.7	-33.6	-501.7	1264.8	25424.1
	2590.5	1044.7	-33.7	-498.5	1266.2	25424.1
Asta	79	nod	86	14		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	981.5	734.1	32.9	484.4	3944.4	-137477.5
	981.6	734.1	32.9	483.7	3949.5	-137489.1
	965.9	736.4	33.1	478.4	3973.7	-137846.3
	966.0	736.4	33.1	477.6	3978.8	-137857.8
	981.5	734.1	32.7	485.0	3924.2	-137477.4
	981.6	734.1	32.8	484.2	3929.3	-137488.9
	965.9	736.4	32.9	478.9	3953.5	-137846.1
	966.0	736.4	33.0	478.2	3958.6	-137857.7
	981.4	734.0	-33.0	-501.8	-3900.9	-137475.5
	981.4	734.1	-32.9	-502.5	-3895.8	-137487.1
	965.7	736.3	-32.8	-507.8	-3871.7	-137844.3
	965.8	736.4	-32.7	-508.6	-3866.6	-137855.9
	981.4	734.0	-33.1	-501.2	-3921.1	-137475.4
	981.4	734.1	-33.1	-502.0	-3916.0	-137487.0
	965.7	736.3	-32.9	-507.3	-3891.9	-137844.2
	965.8	736.4	-32.9	-508.0	-3886.7	-137855.8
78.	1040.9	586.8	32.9	484.4	1376.0	-85845.2
	1041.0	586.9	32.9	483.7	1378.4	-85852.2
	1025.3	589.1	33.1	478.4	1389.4	-86032.7
	1025.4	589.2	33.1	477.6	1391.8	-86039.7
	1040.9	586.8	32.7	485.0	1366.0	-85845.1
	1041.0	586.9	32.8	484.2	1368.4	-85852.2
	1025.3	589.1	32.9	478.9	1379.4	-86032.6
	1025.4	589.2	33.0	478.2	1381.9	-86039.7
	1040.8	586.7	-33.0	-501.8	-1324.5	-85848.6
	1040.8	586.8	-32.9	-502.5	-1322.0	-85855.7
	1025.1	589.1	-32.8	-507.8	-1311.0	-86036.1
	1025.2	589.1	-32.7	-508.6	-1308.6	-86043.2
	1040.8	586.7	-33.1	-501.2	-1334.5	-85848.6
	1040.8	586.8	-33.1	-502.0	-1332.0	-85855.6
	1025.1	589.1	-32.9	-507.3	-1321.0	-86036.1
	1025.2	589.1	-32.9	-508.0	-1318.6	-86043.1
156.	1100.3	439.6	32.9	484.4	-1192.4	-45739.4
	1100.4	439.6	32.9	483.7	-1192.6	-45742.0
	1084.7	441.9	33.1	478.4	-1194.9	-45715.5
	1084.8	442.0	33.1	477.6	-1195.1	-45718.1
	1100.3	439.6	32.7	485.0	-1192.2	-45739.4
	1100.4	439.6	32.8	484.2	-1192.4	-45742.0
	1084.7	441.9	32.9	478.9	-1194.7	-45715.5

		1084.8	442.0	33.0	478.2	-1194.9	-45718.1
		1100.2	439.5	-33.0	-501.8	1252.0	-45748.3
		1100.2	439.6	-32.9	-502.5	1251.8	-45750.9
		1084.5	441.8	-32.8	-507.8	1249.5	-45724.4
		1084.6	441.9	-32.7	-508.6	1249.3	-45727.0
		1100.2	439.5	-33.1	-501.2	1252.2	-45748.2
		1100.2	439.6	-33.1	-502.0	1252.0	-45750.8
		1084.5	441.8	-32.9	-507.3	1249.8	-45724.4
		1084.6	441.9	-32.9	-508.0	1249.5	-45727.0
Asta	80	nod	87	11			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	2468.3	1338.3	32.4	586.5	3659.6	-160832.7	
	2467.5	1338.3	32.2	589.0	3632.5	-160828.9	
	2468.4	1338.0	30.6	537.8	3401.0	-160783.1	
	2467.7	1338.0	30.4	540.3	3374.0	-160779.3	
	2468.3	1338.3	32.3	586.5	3658.1	-160832.6	
	2467.5	1338.3	32.2	589.1	3631.0	-160828.8	
	2468.4	1338.0	30.6	537.8	3399.5	-160783.1	
	2467.7	1338.0	30.4	540.4	3372.5	-160779.3	
	2468.4	1338.3	-30.4	-356.7	-3817.1	-160834.8	
	2467.6	1338.3	-30.6	-354.2	-3844.1	-160831.0	
	2468.5	1338.0	-32.2	-405.4	-4075.7	-160785.2	
	2467.7	1338.0	-32.4	-402.9	-4102.7	-160781.4	
	2468.4	1338.3	-30.4	-356.6	-3818.6	-160834.7	
	2467.6	1338.3	-30.6	-354.1	-3845.6	-160830.9	
	2468.5	1338.0	-32.2	-405.4	-4077.2	-160785.2	
	2467.7	1338.0	-32.4	-402.8	-4104.2	-160781.4	
78.	2527.7	1191.0	32.4	586.5	1130.1	-61963.1	
	2526.9	1191.0	32.2	589.0	1116.7	-61961.3	
	2527.8	1190.7	30.6	537.8	1010.3	-61938.4	
	2527.1	1190.7	30.4	540.3	996.9	-61936.5	
	2527.7	1191.0	32.3	586.5	1129.3	-61963.1	
	2526.9	1191.0	32.2	589.1	1116.0	-61961.2	
	2527.8	1190.7	30.6	537.8	1009.5	-61938.4	
	2527.1	1190.7	30.4	540.4	996.2	-61936.5	
	2527.8	1191.1	-30.4	-356.7	-1439.3	-61964.0	
	2527.0	1191.0	-30.6	-354.2	-1452.7	-61962.1	
	2527.9	1190.7	-32.2	-405.4	-1559.2	-61939.2	
	2527.1	1190.7	-32.4	-402.9	-1572.5	-61937.4	
	2527.8	1191.1	-30.4	-356.6	-1440.1	-61964.0	
	2527.0	1191.0	-30.6	-354.1	-1453.4	-61962.1	
	2527.9	1190.7	-32.2	-405.4	-1559.9	-61939.2	
	2527.1	1190.7	-32.4	-402.8	-1573.2	-61937.4	
156.	2587.1	1043.8	32.4	586.5	-1380.0	25394.9	
	2586.4	1043.8	32.2	589.0	-1379.6	25394.8	
	2587.2	1043.5	30.6	537.8	-1399.9	25394.8	
	2586.5	1043.5	30.4	540.3	-1399.6	25394.7	
	2587.1	1043.8	32.3	586.5	-1379.9	25394.9	
	2586.4	1043.8	32.2	589.1	-1379.6	25394.8	
	2587.2	1043.5	30.6	537.8	-1399.9	25394.8	
	2586.5	1043.5	30.4	540.4	-1399.6	25394.7	
	2587.2	1043.8	-30.4	-356.7	957.9	25395.3	
	2586.4	1043.8	-30.6	-354.2	958.2	25395.2	
	2587.3	1043.5	-32.2	-405.4	937.9	25395.1	
	2586.5	1043.5	-32.4	-402.9	938.2	25395.1	
	2587.2	1043.8	-30.4	-356.6	957.9	25395.3	
	2586.4	1043.8	-30.6	-354.1	958.2	25395.2	
	2587.3	1043.5	-32.2	-405.4	937.9	25395.1	
	2586.5	1043.5	-32.4	-402.8	938.3	25395.1	
Asta	81	nod	88	8			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	1128.8	794.1	26.7	472.4	3014.4	-139678.7	
	1127.4	794.4	26.7	471.6	3020.6	-139711.4	
	1117.8	796.6	26.4	465.3	2978.9	-140055.4	
	1116.4	796.9	26.5	464.6	2985.1	-140088.0	
	1128.8	794.1	26.6	473.0	2994.3	-139679.3	
	1127.4	794.4	26.6	472.2	3000.5	-139711.9	
	1117.8	796.6	26.3	465.9	2958.8	-140056.0	
	1116.4	796.9	26.4	465.1	2965.0	-140088.6	
	1127.4	793.5	-26.4	-323.3	-3312.1	-139660.4	
	1125.9	793.9	-26.3	-324.0	-3305.9	-139693.0	
	1116.3	796.0	-26.6	-330.4	-3347.6	-140037.0	
	1114.9	796.3	-26.6	-331.1	-3341.4	-140069.6	
	1127.4	793.5	-26.5	-322.7	-3332.2	-139661.0	
	1125.9	793.9	-26.5	-323.4	-3326.0	-139693.6	
	1116.3	796.0	-26.8	-329.8	-3367.6	-140037.6	
	1114.9	796.3	-26.7	-330.5	-3361.5	-140070.2	
78.	1188.2	646.9	26.7	472.4	927.6	-83351.2	
	1186.8	647.2	26.7	471.6	930.0	-83358.6	
	1177.2	649.4	26.4	465.3	911.1	-83534.2	
	1175.8	649.7	26.5	464.6	913.6	-83541.6	
	1188.2	646.9	26.6	473.0	917.6	-83351.6	
	1186.8	647.2	26.6	472.2	920.1	-83358.9	
	1177.2	649.4	26.3	465.9	901.2	-83534.5	
	1175.8	649.7	26.4	465.1	903.7	-83541.9	
	1186.8	646.3	-26.4	-323.3	-1249.6	-83379.4	
	1185.4	646.6	-26.3	-324.0	-1247.1	-83386.7	
	1175.7	648.8	-26.6	-330.4	-1266.0	-83562.3	
	1174.3	649.1	-26.6	-331.1	-1263.5	-83569.7	

156.	1186.8	646.3	-26.5	-322.7	-1259.5	-83379.7
	1185.4	646.6	-26.5	-323.4	-1257.0	-83387.1
	1175.7	648.8	-26.8	-329.8	-1275.9	-83562.7
	1174.3	649.1	-26.7	-330.5	-1273.5	-83570.1
	1247.7	499.6	26.7	472.4	-1156.5	-38542.0
	1246.2	499.9	26.7	471.6	-1157.8	-38524.2
	1236.6	502.1	26.4	465.3	-1159.4	-38517.9
	1235.2	502.4	26.5	464.6	-1160.6	-38500.0
	1247.7	499.6	26.6	473.0	-1156.3	-38542.1
	1246.2	500.0	26.6	472.2	-1157.5	-38524.2
	1236.6	502.1	26.3	465.9	-1159.1	-38517.9
	1235.2	502.4	26.4	465.1	-1160.4	-38500.1
	1246.2	499.0	-26.4	-323.3	815.7	-38616.6
	1244.8	499.4	-26.3	-324.0	814.4	-38598.7
	1235.1	501.5	-26.6	-330.4	812.8	-38592.4
	1233.7	501.8	-26.6	-331.1	811.6	-38574.6
	1246.2	499.0	-26.5	-322.7	815.9	-38616.6
	1244.8	499.4	-26.5	-323.4	814.7	-38598.8
	1235.1	501.5	-26.8	-329.8	813.1	-38592.5
	1233.7	501.8	-26.7	-330.5	811.8	-38574.7
Asta PROGR. 0.	82	89	5			
	NORM	TYT	TZZ	TORS	MYT	MZZ
	2504.9	1353.1	22.2	-355.5	4202.5	-162814.7
	2502.3	1353.1	21.9	-352.3	4163.2	-162809.8
	2505.0	1352.9	19.8	-279.4	3862.3	-162778.5
	2502.5	1352.9	19.5	-276.2	3822.9	-162773.7
	2504.9	1353.1	22.2	-355.8	4199.7	-162814.8
	2502.3	1353.1	21.9	-352.6	4160.4	-162809.9
	2505.0	1352.9	19.8	-279.7	3859.5	-162778.6
	2502.5	1352.9	19.5	-276.5	3820.1	-162773.8
	2504.9	1353.2	-19.4	-978.6	-764.3	-162819.1
	2502.4	1353.2	-19.7	-975.4	-803.6	-162814.3
	2505.1	1353.0	-21.8	-902.5	-1104.5	-162783.0
	2502.5	1352.9	-22.1	-899.3	-1143.9	-162778.1
	2504.9	1353.2	-19.5	-978.9	-767.1	-162819.2
	2502.4	1353.2	-19.8	-975.7	-806.4	-162814.4
	2505.1	1353.0	-21.8	-902.8	-1107.3	-162783.1
	2502.5	1352.9	-22.1	-899.6	-1146.7	-162778.2
78.	2564.3	1205.9	22.2	-355.5	2466.4	-62783.9
	2561.7	1205.9	21.9	-352.3	2451.5	-62781.1
	2564.4	1205.7	19.8	-279.4	2310.7	-62765.7
	2561.9	1205.6	19.5	-276.2	2295.7	-62762.9
	2564.3	1205.9	22.2	-355.8	2464.9	-62784.0
	2561.7	1205.9	21.9	-352.6	2450.0	-62781.1
	2564.4	1205.7	19.8	-279.7	2309.2	-62765.8
	2561.9	1205.6	19.5	-276.5	2294.3	-62762.9
	2564.3	1205.9	-19.4	-978.6	755.2	-62785.8
	2561.8	1205.9	-19.7	-975.4	740.3	-62782.9
	2564.5	1205.7	-21.8	-902.5	599.5	-62767.6
	2562.0	1205.7	-22.1	-899.3	584.5	-62764.7
	2564.3	1205.9	-19.5	-978.9	753.7	-62785.8
	2561.8	1205.9	-19.8	-975.7	738.8	-62782.9
	2564.5	1205.7	-21.8	-902.8	598.0	-62767.6
156.	2562.0	1205.7	-22.1	-899.6	583.1	-62764.7
	2623.7	1058.7	22.2	-355.5	729.1	25735.2
	2621.1	1058.6	21.9	-352.3	738.6	25736.1
	2623.8	1058.4	19.8	-279.4	760.2	25735.7
	2621.3	1058.4	19.5	-276.2	769.7	25736.5
	2623.7	1058.7	22.2	-355.8	729.0	25735.2
	2621.1	1058.6	21.9	-352.6	738.4	25736.1
	2623.8	1058.4	19.8	-279.7	760.1	25735.7
	2621.3	1058.4	19.5	-276.5	769.5	25736.5
	2623.7	1058.7	-19.4	-978.6	2273.6	25736.0
	2621.2	1058.7	-19.7	-975.4	2283.0	25736.9
	2623.9	1058.5	-21.8	-902.5	2304.6	25736.4
	2621.4	1058.4	-22.1	-899.3	2314.1	25737.3
	2623.7	1058.7	-19.5	-978.9	2273.4	25736.0
	2621.2	1058.7	-19.8	-975.7	2282.9	25736.9
	2623.9	1058.5	-21.8	-902.8	2304.5	25736.4
	2621.4	1058.4	-22.1	-899.6	2314.0	25737.3
Asta PROGR. 0.	83	90	66			
	NORM	TYT	TZZ	TORS	MYT	MZZ
	-97.9	-523.2	85.1	-998.7	32111.5	96896.9
	-97.9	-522.3	82.7	-1009.9	31841.6	96718.3
	-97.7	-514.4	77.1	-1018.2	31017.2	95379.1
	-97.7	-513.4	74.7	-1029.4	30747.4	95200.5
	-107.0	-522.6	86.2	-1007.1	32160.4	96883.0
	-106.9	-521.7	83.9	-1018.3	31890.6	96704.4
	-106.8	-513.8	78.3	-1026.6	31066.2	95365.3
	-106.7	-512.8	75.9	-1037.8	30796.3	95186.7
	107.6	-516.5	94.1	-1082.6	33242.6	96058.5
	107.7	-515.5	91.8	-1093.8	32972.7	95879.9
	107.8	-507.7	86.2	-1102.1	32148.3	94540.7
	107.9	-506.7	83.8	-1113.3	31878.5	94362.1
	98.6	-515.9	95.3	-1091.1	33291.5	96044.6
	98.7	-514.9	92.9	-1102.3	33021.7	95866.0
	98.8	-507.1	87.3	-1110.6	32197.3	94526.9
	98.9	-506.1	85.0	-1121.8	31927.4	94348.3
100.	-97.9	-580.6	85.1	-998.7	23501.9	42121.4

	-97.9	-579.6	82.7	-1009.9	23466.4	42041.7
	-97.7	-571.8	77.1	-1018.2	23192.6	41480.2
	-97.7	-570.8	74.7	-1029.4	23157.1	41400.5
	-107.0	-580.0	86.2	-1007.1	23436.4	42167.2
	-106.9	-579.0	83.9	-1018.3	23400.9	42087.6
	-106.8	-571.2	78.3	-1026.6	23127.1	41526.1
	-106.7	-570.2	75.9	-1037.8	23091.6	41446.4
	107.6	-573.9	94.1	-1082.6	24013.0	41561.9
	107.7	-572.9	91.8	-1093.8	23977.5	41482.2
	107.8	-565.1	86.2	-1102.1	23703.7	40920.7
	107.9	-564.1	83.8	-1113.3	23668.1	40841.0
	98.6	-573.3	95.3	-1091.1	23947.5	41607.8
	98.7	-572.3	92.9	-1102.3	23912.0	41528.1
	98.8	-564.5	87.3	-1110.6	23638.1	40966.6
	98.9	-563.5	85.0	-1121.8	23602.6	40886.9
199.	-97.9	-638.0	85.1	-998.7	14358.2	-18969.0
	-97.9	-637.0	82.7	-1009.9	14557.0	-18949.8
	-97.7	-629.2	77.1	-1018.2	14859.1	-18719.6
	-97.7	-628.2	74.7	-1029.4	15057.9	-18700.4
	-107.0	-637.4	86.2	-1007.1	14178.2	-18863.4
	-106.9	-636.4	83.9	-1018.3	14377.0	-18844.2
	-106.8	-628.6	78.3	-1026.6	14679.1	-18614.0
	-106.7	-627.6	75.9	-1037.8	14878.0	-18594.8
	107.6	-631.3	94.1	-1082.6	15292.2	-18061.8
	107.7	-630.3	91.8	-1093.8	15491.1	-18042.6
	107.8	-622.4	86.2	-1102.1	15793.2	-17812.4
	107.9	-621.4	83.8	-1113.3	15992.0	-17793.2
	98.6	-630.7	95.3	-1091.1	15112.3	-17956.2
	98.7	-629.7	92.9	-1102.3	15311.1	-17937.0
	98.8	-621.8	87.3	-1110.6	15613.2	-17706.8
	98.9	-620.8	85.0	-1121.8	15812.0	-17687.6
Asta	84	nod	1	90		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-154.2	792.6	0.6	0.0	0.0	0.0
	-179.4	792.6	0.6	0.0	0.0	0.0
	-228.0	792.2	0.6	0.0	0.0	0.0
	-253.3	792.1	0.6	0.0	0.0	0.0
	-155.4	792.6	0.6	0.0	0.0	0.0
	-180.7	792.6	0.6	0.0	0.0	0.0
	-229.2	792.2	0.6	0.0	0.0	0.0
	-254.5	792.1	0.6	0.0	0.0	0.0
	-136.9	792.6	0.9	0.0	0.0	0.0
	-162.1	792.6	0.9	0.0	0.0	0.0
	-210.7	792.2	0.9	0.0	0.0	0.0
	-236.0	792.1	0.9	0.0	0.0	0.0
	-138.1	792.6	0.9	0.0	0.0	0.0
	-163.4	792.6	0.9	0.0	0.0	0.0
	-211.9	792.2	0.9	0.0	0.0	0.0
	-237.2	792.2	0.9	0.0	0.0	0.0
450.	232.9	-165.3	0.6	0.0	-289.4	143088.3
	207.6	-165.3	0.6	0.0	-287.8	143076.6
	159.1	-165.7	0.6	0.0	-283.1	142898.0
	133.8	-165.7	0.6	0.0	-281.5	142886.4
	231.6	-165.3	0.6	0.0	-287.9	143089.0
	206.3	-165.3	0.6	0.0	-286.4	143077.4
	157.8	-165.7	0.6	0.0	-281.7	142898.8
	132.5	-165.7	0.6	0.0	-280.1	142887.1
	250.2	-165.3	0.9	0.0	-427.4	143094.0
	224.9	-165.3	0.9	0.0	-425.8	143082.3
	176.4	-165.7	0.9	0.0	-421.1	142903.7
	151.1	-165.7	0.9	0.0	-419.5	142892.1
	248.9	-165.2	0.9	0.0	-425.9	143094.7
	223.6	-165.3	0.9	0.0	-424.4	143083.1
	175.1	-165.7	0.9	0.0	-419.7	142904.5
	149.8	-165.7	0.9	0.0	-418.1	142892.8
901.	639.8	-1172.4	0.6	0.0	-578.7	-156229.6
	614.5	-1172.4	0.6	0.0	-575.6	-156252.9
	566.0	-1172.8	0.6	0.0	-566.2	-156610.1
	540.7	-1172.8	0.6	0.0	-563.1	-156633.4
	638.6	-1172.4	0.6	0.0	-575.9	-156228.1
	613.3	-1172.4	0.6	0.0	-572.8	-156251.4
	564.8	-1172.8	0.6	0.0	-563.3	-156608.6
	539.5	-1172.8	0.6	0.0	-560.2	-156631.9
	657.1	-1172.4	0.9	0.0	-854.7	-156218.2
	631.8	-1172.4	0.9	0.0	-851.6	-156241.5
	583.3	-1172.8	0.9	0.0	-842.2	-156598.7
	558.0	-1172.8	0.9	0.0	-839.1	-156622.0
	655.9	-1172.4	0.9	0.0	-851.9	-156216.7
	630.6	-1172.4	0.9	0.0	-848.7	-156240.0
	582.0	-1172.8	0.9	0.0	-839.3	-156597.2
	556.8	-1172.8	0.9	0.0	-836.2	-156620.5
Asta	85	nod	90	2		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	503.3	540.8	14.6	-714.5	3996.9	-150511.7
	483.5	539.6	14.5	-711.6	3982.0	-150526.0
	495.5	543.5	14.2	-699.4	3934.7	-150943.6
	475.8	542.2	14.1	-696.5	3919.8	-150957.9
	503.3	540.7	14.4	-714.1	3955.9	-150501.6
	483.6	539.5	14.2	-711.3	3941.0	-150515.9

	495.6	543.4	13.9	-699.0	3893.7	-150933.5
	475.8	542.2	13.8	-696.1	3878.8	-150947.8
	500.0	539.7	-14.3	-1157.0	568.9	-150429.4
	480.3	538.4	-14.4	-1154.1	554.0	-150443.7
	492.3	542.3	-14.8	-1141.8	506.7	-150861.3
	472.6	541.1	-14.9	-1138.9	491.8	-150875.6
	500.1	539.6	-14.6	-1156.6	527.9	-150419.3
	480.3	538.4	-14.7	-1153.7	513.0	-150433.6
	492.4	542.3	-15.0	-1141.4	465.7	-150851.2
	472.6	541.0	-15.1	-1138.5	450.8	-150865.5
78.	562.8	393.1	14.6	-714.5	2854.6	-114138.2
	543.1	391.9	14.5	-711.6	2848.8	-114248.8
	555.1	395.8	14.2	-699.4	2826.6	-114375.7
	535.3	394.6	14.1	-696.5	2820.8	-114486.4
	562.9	393.1	14.4	-714.1	2834.1	-114132.7
	543.1	391.8	14.2	-711.3	2828.3	-114243.3
	555.2	395.7	13.9	-699.0	2806.2	-114370.3
	535.4	394.5	13.8	-696.1	2800.3	-114480.9
	559.6	392.0	-14.3	-1157.0	1688.0	-114172.9
	539.9	390.8	-14.4	-1154.1	1682.2	-114283.5
	551.9	394.7	-14.8	-1141.8	1660.0	-114410.4
	532.1	393.4	-14.9	-1138.9	1654.2	-114521.1
	559.7	391.9	-14.6	-1156.6	1667.5	-114167.4
	539.9	390.7	-14.7	-1153.7	1661.7	-114278.0
	551.9	394.6	-15.0	-1141.4	1639.5	-114404.9
156.	532.2	393.4	-15.1	-1138.5	1633.7	-114515.6
	612.9	269.1	14.6	-714.5	1711.0	-88369.6
	593.1	267.9	14.5	-711.6	1714.2	-88576.5
	605.1	271.8	14.2	-699.4	1717.9	-88484.8
	585.4	270.6	14.1	-696.5	1721.1	-88691.8
	612.9	269.1	14.4	-714.1	1711.0	-88368.7
	593.2	267.8	14.2	-711.3	1714.3	-88575.6
	605.2	271.7	13.9	-699.0	1717.9	-88484.0
	585.4	270.5	13.8	-696.1	1721.1	-88690.9
	609.6	268.0	-14.3	-1157.0	2807.8	-88477.1
	589.9	266.8	-14.4	-1154.1	2811.0	-88684.0
	601.9	270.7	-14.8	-1141.8	2814.7	-88592.4
	582.2	269.4	-14.9	-1138.9	2817.9	-88799.3
	609.7	267.9	-14.6	-1156.6	2807.8	-88476.3
	589.9	266.7	-14.7	-1153.7	2811.0	-88683.2
	602.0	270.6	-15.0	-1141.4	2814.7	-88591.5
	582.2	269.4	-15.1	-1138.5	2817.9	-88798.5
Asta	98	65	80			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	82.4	562.4	-241.3	4738.9	-5412.8	-258.2
	82.3	564.6	-244.4	4749.8	-5539.3	-231.4
	82.5	557.9	-234.9	4718.7	-5149.9	-318.6
	82.5	560.1	-238.0	4729.6	-5276.5	-291.8
	106.1	562.4	-241.3	4738.9	-5411.5	-258.7
	106.1	564.7	-244.3	4749.8	-5538.1	-231.9
	106.3	557.9	-234.9	4718.7	-5148.7	-319.1
	106.2	560.1	-237.9	4729.6	-5275.2	-292.3
	-106.2	563.6	-240.2	4736.9	-5544.8	-159.1
	-106.3	565.8	-243.3	4747.8	-5671.3	-132.3
	-106.1	559.0	-233.9	4716.7	-5281.9	-219.5
	-106.2	561.3	-236.9	4727.6	-5408.5	-192.7
	-82.5	563.6	-240.2	4736.9	-5543.5	-159.6
	-82.5	565.9	-243.2	4747.8	-5670.1	-132.8
	-82.4	559.1	-233.8	4716.7	-5280.7	-220.0
	-82.4	561.3	-236.9	4727.6	-5407.3	-193.2
81.	82.4	515.8	-241.3	4738.9	14082.1	43301.8
	82.3	518.1	-244.4	4749.8	14202.4	43511.8
	82.5	511.3	-234.9	4718.7	13829.7	42877.1
	82.5	513.6	-238.0	4729.6	13950.0	43087.1
	106.1	515.9	-241.3	4738.9	14078.6	43303.1
	106.1	518.1	-244.3	4749.8	14198.9	43513.1
	106.3	511.3	-234.9	4718.7	13826.2	42878.4
	106.2	513.6	-237.9	4729.6	13946.5	43088.4
	-106.2	517.0	-240.2	4736.9	13870.2	43496.1
	-106.3	519.3	-243.3	4747.8	13990.5	43706.1
	-106.1	512.5	-233.9	4716.7	13617.8	43071.4
	-106.2	514.8	-236.9	4727.6	13738.2	43281.4
	-82.5	517.1	-240.2	4736.9	13866.7	43497.4
	-82.5	519.3	-243.2	4747.8	13987.0	43707.4
	-82.4	512.5	-233.8	4716.7	13614.3	43072.7
	-82.4	514.8	-236.9	4727.6	13734.7	43282.7
162.	82.4	469.3	-241.3	4738.9	33578.7	83101.6
	82.3	471.6	-244.4	4749.8	33945.9	83494.8
	82.5	464.8	-234.9	4718.7	32811.2	82311.1
	82.5	467.0	-238.0	4729.6	33178.4	82704.4
	106.1	469.3	-241.3	4738.9	33570.5	83104.6
	106.1	471.6	-244.3	4749.8	33937.7	83497.8
	106.3	464.8	-234.9	4718.7	32803.0	82314.1
	106.2	467.1	-237.9	4729.6	33170.2	82707.4
	-106.2	470.5	-240.2	4736.9	33283.4	83392.0
	-106.3	472.8	-243.3	4747.8	33650.6	83785.2
	-106.1	466.0	-233.9	4716.7	32515.9	82601.5
	-106.2	468.2	-236.9	4727.6	32883.1	82994.8
	-82.5	470.5	-240.2	4736.9	33275.2	83395.0
	-82.5	472.8	-243.2	4747.8	33642.3	83788.3

	-82.4	466.0	-233.8	4716.7	32507.7	82604.5
	-82.4	468.3	-236.9	4727.6	32874.9	82997.8
Asta	99	nod	80	81		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-82.3	-971.9	416.6	-2693.9	33806.5	83357.2
	-82.3	-976.1	420.9	-2704.8	34182.9	83748.7
	-82.4	-960.4	405.2	-2674.5	33001.0	82574.2
	-82.4	-964.6	409.5	-2685.3	33377.4	82965.7
	-106.1	-971.9	416.6	-2693.9	33814.7	83354.2
	-106.0	-976.0	421.0	-2704.8	34191.1	83745.7
	-106.2	-960.4	405.3	-2674.5	33009.2	82571.2
	-106.2	-964.6	409.6	-2685.3	33385.5	82962.7
	106.2	-967.5	426.7	-2692.0	34390.2	83147.9
	106.2	-971.7	431.0	-2702.8	34766.6	83539.4
	106.1	-956.1	415.3	-2672.5	33584.7	82364.8
	106.1	-960.2	419.6	-2683.4	33961.1	82756.4
	82.4	-967.5	426.7	-2692.0	34398.4	83144.9
	82.4	-971.7	431.0	-2702.8	34774.7	83536.4
	82.3	-956.0	415.3	-2672.5	33592.9	82361.9
	82.3	-960.2	419.6	-2683.4	33969.2	82753.4
81.	-82.3	-1018.4	416.6	-2693.9	104.2	2857.7
	-82.3	-1022.6	420.9	-2704.8	131.8	2911.1
	-82.4	-1007.0	405.2	-2674.5	266.4	3077.6
	-82.4	-1011.2	409.5	-2685.3	294.0	3131.0
	-106.1	-1018.4	416.6	-2693.9	107.9	2856.4
	-106.0	-1022.6	421.0	-2704.8	135.5	2909.8
	-106.2	-1007.0	405.3	-2674.5	270.0	3076.3
	-106.2	-1011.2	409.6	-2685.3	297.6	3129.7
	106.2	-1014.1	426.7	-2692.0	-131.2	3005.7
	106.2	-1018.3	431.0	-2702.8	-103.6	3059.1
	106.1	-1002.6	415.3	-2672.5	30.9	3225.6
	106.1	-1006.8	419.6	-2683.4	58.5	3279.0
	82.4	-1014.1	426.7	-2692.0	-127.5	3004.4
	82.4	-1018.2	431.0	-2702.8	-99.9	3057.8
	82.3	-1002.6	415.3	-2672.5	34.6	3224.3
	82.3	-1006.8	419.6	-2683.4	62.2	3277.7
162.	-82.3	-1065.0	416.6	-2693.9	-33561.4	-81339.0
	-82.3	-1069.2	420.9	-2704.8	-33882.5	-81623.8
	-82.4	-1053.6	405.2	-2674.5	-32513.5	-80245.4
	-82.4	-1057.7	409.5	-2685.3	-32834.7	-80530.1
	-106.1	-1065.0	416.6	-2693.9	-33562.2	-81338.7
	-106.0	-1069.2	421.0	-2704.8	-33883.4	-81623.4
	-106.2	-1053.5	405.3	-2674.5	-32514.4	-80245.0
	-106.2	-1057.7	409.6	-2685.3	-32835.6	-80529.8
	106.2	-1060.6	426.7	-2692.0	-34607.4	-80840.4
	106.2	-1064.8	431.0	-2702.8	-34928.5	-81125.1
	106.1	-1049.2	415.3	-2672.5	-33559.5	-79746.7
	106.1	-1053.4	419.6	-2683.4	-33880.7	-80031.5
	82.4	-1060.6	426.7	-2692.0	-34608.2	-80840.0
	82.4	-1064.8	431.0	-2702.8	-34929.4	-81124.8
	82.3	-1049.2	415.3	-2672.5	-33560.4	-79746.4
	82.3	-1053.4	419.6	-2683.4	-33881.6	-80031.1
Asta	100	nod	81	82		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	63.6	937.9	-409.2	2061.1	-34562.9	-80454.6
	63.6	940.5	-412.2	2063.3	-34848.5	-80745.2
	63.7	923.3	-392.7	2030.2	-33352.4	-79405.1
	63.7	925.9	-395.7	2032.4	-33637.9	-79695.7
	87.4	937.9	-409.2	2061.1	-34562.0	-80454.9
	87.4	940.5	-412.2	2063.3	-34847.6	-80745.5
	87.5	923.3	-392.7	2030.2	-33351.5	-79405.5
	87.5	925.9	-395.7	2032.4	-33637.1	-79696.1
	-87.4	950.5	-389.0	2058.7	-33125.5	-81371.3
	-87.4	953.1	-392.0	2060.9	-33411.1	-81662.0
	-87.3	935.9	-372.5	2027.8	-31915.0	-80321.9
	-87.3	938.5	-375.5	2030.0	-32200.6	-80612.5
	-63.7	950.5	-388.9	2058.7	-33124.7	-81371.7
	-63.7	953.2	-392.0	2060.9	-33410.2	-81662.3
	-63.6	936.0	-372.5	2027.8	-31914.2	-80322.2
	-63.6	938.6	-375.5	2030.0	-32199.7	-80612.9
81.	63.6	891.3	-409.2	2061.1	-1458.1	-6464.1
	63.6	893.9	-412.2	2063.3	-1500.5	-6544.3
	63.7	876.8	-392.7	2030.2	-1618.2	-6681.0
	63.7	879.4	-395.7	2032.4	-1660.7	-6761.2
	87.4	891.4	-409.2	2061.1	-1461.7	-6462.7
	87.4	894.0	-412.2	2063.3	-1504.1	-6542.9
	87.5	876.8	-392.7	2030.2	-1621.9	-6679.7
	87.5	879.4	-395.7	2032.4	-1664.3	-6759.8
	-87.4	904.0	-389.0	2058.7	-1656.1	-6359.8
	-87.4	906.6	-392.0	2060.9	-1698.5	-6440.0
	-87.3	889.4	-372.5	2027.8	-1816.2	-6576.7
	-87.3	892.0	-375.5	2030.0	-1858.7	-6656.9
	-63.7	904.0	-388.9	2058.7	-1659.7	-6358.5
	-63.7	906.6	-392.0	2060.9	-1702.1	-6438.6
	-63.6	889.4	-372.5	2027.8	-1819.9	-6575.4
	-63.6	892.0	-375.5	2030.0	-1862.3	-6655.6
162.	63.6	844.8	-409.2	2061.1	31609.8	63686.8
	63.6	847.4	-412.2	2063.3	31810.5	63817.1
	63.7	830.2	-392.7	2030.2	30150.1	62354.6

	63.7	832.8	-395.7	2032.4	30350.8	62484.8
	87.4	844.8	-409.2	2061.1	31601.6	63689.8
	87.4	847.4	-412.2	2063.3	31802.3	63820.1
	87.5	830.2	-392.7	2030.2	30141.9	62357.6
	87.5	832.8	-395.7	2032.4	30342.7	62487.8
	-87.4	857.4	-389.0	2058.7	29779.2	64810.0
	-87.4	860.0	-392.0	2060.9	29979.9	64940.3
	-87.3	842.8	-372.5	2027.8	28319.5	63477.8
	-87.3	845.4	-375.5	2030.0	28520.2	63608.1
	-63.7	857.4	-388.9	2058.7	29771.0	64813.0
	-63.7	860.0	-392.0	2060.9	29971.8	64943.3
	-63.6	842.8	-372.5	2027.8	28311.4	63480.8
	-63.6	845.4	-375.5	2030.0	28512.1	63611.1
Asta	101	nod1	82	83		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-63.6	-776.0	366.7	-2077.7	29623.8	64781.8
	-63.7	-777.4	368.9	-2080.1	29817.9	64913.4
	-63.7	-759.1	347.9	-2047.1	28143.4	63454.7
	-63.8	-760.5	350.0	-2049.5	28337.5	63586.3
	-87.4	-776.0	366.8	-2077.7	29632.0	64778.8
	-87.4	-777.3	368.9	-2080.1	29826.1	64910.5
	-87.5	-759.1	347.9	-2047.1	28151.6	63451.7
	-87.5	-760.5	350.1	-2049.5	28345.7	63583.4
	87.5	-760.9	394.7	-2075.2	31691.2	63685.2
	87.5	-762.3	396.8	-2077.7	31885.4	63816.8
	87.4	-744.0	375.8	-2044.7	30210.9	62358.1
	87.4	-745.4	378.0	-2047.1	30405.0	62489.7
	63.7	-760.9	394.8	-2075.2	31699.4	63682.2
	63.7	-762.2	396.9	-2077.7	31893.5	63813.8
	63.6	-744.0	375.9	-2044.7	30219.0	62355.1
	63.6	-745.3	378.0	-2047.1	30413.1	62486.7
81.	-63.6	-822.6	366.7	-2077.7	126.8	389.8
	-63.7	-823.9	368.9	-2080.1	148.3	413.6
	-63.7	-805.7	347.9	-2047.1	-99.4	43.2
	-63.8	-807.0	350.0	-2049.5	-77.9	67.1
	-87.4	-822.6	366.8	-2077.7	130.5	388.5
	-87.4	-823.9	368.9	-2080.1	152.0	412.3
	-87.5	-805.7	347.9	-2047.1	-95.7	41.9
	-87.5	-807.0	350.1	-2049.5	-74.2	65.8
	87.5	-807.5	394.7	-2075.2	-66.3	515.2
	87.5	-808.8	396.8	-2077.7	-44.7	539.1
	87.4	-790.6	375.8	-2044.7	-292.5	168.7
	87.4	-791.9	378.0	-2047.1	-270.9	192.5
	63.7	-807.4	394.8	-2075.2	-62.6	513.9
	63.7	-808.8	396.9	-2077.7	-41.1	537.8
	63.6	-790.5	375.9	-2044.7	-288.8	167.4
	63.6	-791.9	378.0	-2047.1	-267.3	191.2
162.	-63.6	-869.1	366.7	-2077.7	-29657.2	-68187.2
	-63.7	-870.4	368.9	-2080.1	-29808.3	-68271.1
	-63.7	-852.2	347.9	-2047.1	-28058.8	-66702.2
	-63.8	-853.6	350.0	-2049.5	-28209.8	-66786.2
	-87.4	-869.1	366.8	-2077.7	-29658.0	-68186.8
	-87.4	-870.4	368.9	-2080.1	-29809.1	-68270.7
	-87.5	-852.2	347.9	-2047.1	-28059.6	-66701.8
	-87.5	-853.5	350.1	-2049.5	-28210.6	-66785.8
	87.5	-854.0	394.7	-2075.2	-32107.2	-66841.7
	87.5	-855.3	396.8	-2077.7	-32258.3	-66925.7
	87.4	-837.1	375.8	-2044.7	-30508.8	-65356.8
	87.4	-838.4	378.0	-2047.1	-30659.8	-65440.7
	63.7	-854.0	394.8	-2075.2	-32108.0	-66841.3
	63.7	-855.3	396.9	-2077.7	-32259.1	-66925.3
	63.6	-837.1	375.9	-2044.7	-30509.6	-65356.4
	63.6	-838.4	378.0	-2047.1	-30660.6	-65440.3
Asta	102	nod1	83	84		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	89.5	871.4	-405.2	2189.4	-32371.2	-66713.9
	89.5	872.4	-406.4	2190.8	-32491.9	-66808.1
	89.5	851.7	-382.5	2147.7	-30652.2	-65264.5
	89.5	852.7	-383.8	2149.0	-30772.9	-65358.6
	113.3	871.5	-405.1	2189.4	-32370.4	-66714.2
	113.3	872.4	-406.4	2190.8	-32491.0	-66808.4
	113.2	851.7	-382.5	2147.7	-30651.4	-65264.8
	113.3	852.7	-383.7	2149.0	-30772.0	-65358.9
	-113.3	891.9	-370.4	2188.4	-29652.8	-68316.0
	-113.3	892.8	-371.6	2189.8	-29773.4	-68410.2
	-113.3	872.1	-347.8	2146.6	-27933.8	-66866.6
	-113.3	873.1	-349.0	2148.0	-28054.4	-66960.7
	-89.5	891.9	-370.3	2188.4	-29651.9	-68316.3
	-89.5	892.8	-371.6	2189.8	-29772.6	-68410.5
	-89.6	872.1	-347.7	2146.6	-27932.9	-66866.9
	-89.5	873.1	-348.9	2148.0	-28053.6	-66961.0
81.	89.5	824.9	-405.2	2189.4	227.9	1624.4
	89.5	825.8	-406.4	2190.8	208.6	1606.2
	89.5	805.1	-382.5	2147.7	439.2	1946.6
	89.5	806.1	-383.8	2149.0	419.9	1928.4
	113.3	824.9	-405.1	2189.4	224.3	1625.7
	113.3	825.8	-406.4	2190.8	204.9	1607.5
	113.2	805.2	-382.5	2147.7	435.6	1947.9
	113.3	806.1	-383.7	2149.0	416.2	1929.7

	-113.3	845.3	-370.4	2188.4	128.5	1675.7
	-113.3	846.2	-371.6	2189.8	109.2	1657.5
	-113.3	825.6	-347.8	2146.6	339.9	1997.9
	-113.3	826.5	-349.0	2148.0	320.5	1979.7
	-89.5	845.3	-370.3	2188.4	124.9	1677.0
	-89.5	846.2	-371.6	2189.8	105.5	1658.8
	-89.6	825.6	-347.7	2146.6	336.2	1999.2
	-89.5	826.5	-348.9	2148.0	316.8	1981.0
162.	89.5	778.3	-405.2	2189.4	33151.6	66692.3
	89.5	779.2	-406.4	2190.8	33233.6	66750.0
	89.5	758.6	-382.5	2147.7	31197.2	64904.7
	89.5	759.5	-383.8	2149.0	31279.2	64962.4
	113.3	778.3	-405.1	2189.4	33143.4	66695.2
	113.3	779.3	-406.4	2190.8	33225.4	66752.9
	113.2	758.6	-382.5	2147.7	31189.0	64907.6
	113.3	759.5	-383.7	2149.0	31271.0	64965.4
	-113.3	798.7	-370.4	2188.4	30243.4	68390.0
	-113.3	799.7	-371.6	2189.8	30325.3	68447.8
	-113.3	779.0	-347.8	2146.6	28289.0	66602.5
	-113.3	779.9	-349.0	2148.0	28370.9	66660.2
	-89.5	798.7	-370.3	2188.4	30235.2	68393.0
	-89.5	799.7	-371.6	2189.8	30317.1	68450.7
	-89.6	779.0	-347.7	2146.6	28280.8	66605.4
	-89.5	779.9	-348.9	2148.0	28362.7	66663.1
Asta	108	nod1	89	90		
PROGR.	NORM	TTY	TZZ	TORS	MYT	MZZ
0.	120.6	1211.7	-473.3	4701.8	-39948.6	-92658.6
	120.6	1209.5	-469.8	4699.7	-39673.7	-92476.5
	120.4	1197.8	-460.9	4649.3	-39011.8	-91699.0
	120.3	1195.6	-457.5	4647.1	-38736.8	-91516.9
	131.8	1211.7	-473.3	4702.0	-39947.0	-92664.9
	131.7	1209.5	-469.8	4699.9	-39672.0	-92482.8
	131.5	1197.8	-461.0	4649.5	-39010.1	-91705.4
	131.5	1195.6	-457.5	4647.3	-38735.2	-91523.2
	-132.6	1222.1	-451.4	4705.1	-38063.7	-93596.3
	-132.7	1219.9	-447.9	4703.0	-37788.7	-93414.1
	-132.8	1208.2	-439.1	4652.5	-37126.8	-92636.7
	-132.9	1206.0	-435.6	4650.4	-36851.9	-92454.5
	-121.5	1222.2	-451.4	4705.3	-38062.0	-93602.6
	-121.5	1220.0	-448.0	4703.1	-37787.1	-93420.4
	-121.7	1208.3	-439.1	4652.7	-37125.1	-92643.0
	-121.8	1206.1	-435.6	4650.6	-36850.2	-92460.9
81.	120.6	1165.1	-473.3	4701.8	-1552.3	3631.4
	120.6	1162.9	-469.8	4699.7	-1558.6	3635.2
	120.4	1151.2	-460.9	4649.3	-1889.9	3052.1
	120.3	1149.0	-457.5	4647.1	-1896.2	3056.0
	131.8	1165.2	-473.3	4702.0	-1547.3	3629.3
	131.7	1162.9	-469.8	4699.9	-1553.7	3633.1
	131.5	1151.3	-461.0	4649.5	-1885.0	3050.1
	131.5	1149.0	-457.5	4647.3	-1891.3	3053.9
	-132.6	1175.6	-451.4	4705.1	-1423.7	3536.2
	-132.7	1173.4	-447.9	4703.0	-1430.1	3540.0
	-132.8	1161.7	-439.1	4652.5	-1761.3	2957.0
	-132.9	1159.5	-435.6	4650.4	-1767.7	2960.8
	-121.5	1175.6	-451.4	4705.3	-1418.8	3534.2
	-121.5	1173.4	-448.0	4703.1	-1425.2	3538.0
	-121.7	1161.7	-439.1	4652.7	-1756.4	2955.0
	-121.8	1159.5	-435.6	4650.6	-1762.8	2958.8
162.	120.6	1118.5	-473.3	4701.8	36630.9	95848.0
	120.6	1116.3	-469.8	4699.7	36343.2	95673.5
	120.4	1104.6	-460.9	4649.3	35472.0	94339.0
	120.3	1102.4	-457.5	4647.1	35184.4	94164.4
	131.8	1118.6	-473.3	4702.0	36639.0	95850.3
	131.7	1116.4	-469.8	4699.9	36351.4	95675.7
	131.5	1104.7	-461.0	4649.5	35480.2	94341.2
	131.5	1102.5	-457.5	4647.3	35192.5	94166.7
	-132.6	1129.0	-451.4	4705.1	34976.2	96602.8
	-132.7	1126.8	-447.9	4703.0	34688.6	96428.2
	-132.8	1115.1	-439.1	4652.5	33817.4	95093.7
	-132.9	1112.9	-435.6	4650.4	33529.7	94919.2
	-121.5	1129.0	-451.4	4705.3	34984.4	96605.0
	-121.5	1126.8	-448.0	4703.1	34696.7	96430.5
	-121.7	1115.1	-439.1	4652.7	33825.5	95095.9
	-121.8	1112.9	-435.6	4650.6	33537.9	94921.4

The diagram shows a hierarchical network of nodes labeled A1 through A108. The nodes are arranged in a roughly triangular shape, with A1 at the top and A108 at the bottom. The nodes are connected by lines, with some lines being red and others blue. The diagram illustrates a complex network structure, possibly representing a system architecture or a data flow.

533

VERIFICA ASTE IN LEGNO

Lavoro : 13119C
 Normativa : NTC08 - EC5 (UNI EN 1995-1-1)
 Unità di misura : cm; daN; daN/cm; daNcm; daN/cm2; daN/cm3.
 Data : 31/03/2015 - 21.33
 Numero aste : 45

MATERIALE

Descrizione: Legno massiccio
 Norma : UNI EN 338 Classe : C24
 fmk = 240. ft0k= 140. ft90k=4. fc0k= 210. fc90k=25. fvk = 40.
 E0m = 110000 E005= 74000. E90m =3700. Gm = 6900. G005= 4641.8
 Rok = .00035 Rom = .00042

DATI [NTC08 4.4.6]

Tipo legno : Legno massiccio Riferimento : EN 14081.1
 Classe di servizio: 1 ; gM= 1.5 ; kdef= 0.6 ; betaC= 0.2

classi di durata	kmod	ft0d *	fc0d	fmd *	fvd	Casi di carico
Permanente	.600	56.00	84.00	96.00	16.00	1
Lunga durata	.700	65.33	98.00	112.00	18.67	non prevista
Media durata	.800	74.67	112.00	128.00	21.33	non prevista
Breve durata	.900	84.00	126.00	144.00	24.00	non prevista
Istantaneo	1.000	93.33	140.00	160.00	26.67	4, 5

(*) valori per kh=1

CASI DI CARICO

N	Descrizione	Soll.
1	SLU SENZA SISMA	1
4	SLU con SISMAX PRINC	16
5	SLU con SISMAX PRINC	16

SEZIONI RETTANGOLARI

N	b	h	alfa	A	Jz	Jy	Jtor	Km	Ksh
1	30.	32.	4.724	960.	81920.	72000.	184320.	.7	1.16

VERIFICHE

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (4-89) 3
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	k crit
Z	900.58	97.49	1.653	2.002	.319	900.58	1454.7	.406	1.000
Y	900.58	103.99	1.763	2.201	.284	900.58	1655.1	.381	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	0.0	0.0	0.0	-1001.8	-2.0	1972.2	

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	1.0	0.0	0.0	0.000	.044	.044	0.00	0.0	0.00	3.1	.193	si

----- PROGR.(4) 337.72

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	352058.3	673.6	0.0	-250.4	-2.0	112.7	

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	.3	68.8	.1	.717	.727	.524	0.00	0.0	0.00	.2	.011	si

----- PROGR.(9) 900.58

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	-456667.2	1796.1	0.0	1001.8	-2.0	-2986.3	

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	1.0	0.0	89.2	.4	.950	0.000	.863	0.00	0.0	0.00	4.7	.292	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (7-88) 5
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	k crit
Z	900.58	97.49	1.653	2.002	.319	900.58	1454.7	.406	1.000
Y	900.58	103.99	1.763	2.201	.284	900.58	1655.1	.381	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	0.0	0.0	0.0	1066.1	.2	2011.6	

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	1.1	0.0	0.0	0.0	.020	0.000	0.000	0.00	0.0	0.00	3.1	.196	si

----- PROGR.(9) 900.58

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-42160.4	-152.1	0.0	3069.7	.2	-2946.9

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	3.2	0.0	82.3	0.0	.914	0.000	.734	0.00	0.0	0.00	4.6	.288	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (10-87) 7

Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

As	L0	Lam	LamRel	k	kc
Z	900.58	97.49	1.653	2.002	.319
Y	900.58	103.99	1.763	2.201	.284

Instabilita' torsionale

L0	Scrit	LamRel	K crit
900.58	1454.7	.406	1.000
900.58	1655.1	.381	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	0.0	0.0	0.0	-1001.8	.5	1970.6

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	1.0	0.0	0.0	0.000	.044	.044	0.00	0.0	0.00	3.1	.192	si

----- PROGR.(4) 337.72

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	351531.5	-157.4	0.0	-250.4	.5	111.2

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	.3	68.7	0.0	.715	.725	.522	0.00	0.0	0.00	.2	.011	si

----- PROGR.(9) 900.58

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-458072.0	-419.8	0.0	1001.8	.5	-2987.9

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	1.0	0.0	89.5	.1	.951	0.000	.869	0.00	0.0	0.00	4.7	.292	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (13-86) 9

Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

As	L0	Lam	LamRel	k	kc
Z	900.58	97.49	1.653	2.002	.319
Y	900.58	103.99	1.763	2.201	.284

Instabilita' torsionale

L0	Scrit	LamRel	K crit
900.58	1454.7	.406	1.000
900.58	1655.1	.381	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	0.0	0.0	0.0	586.1	0.0	2017.6
4-13	0.0	0.0	0.0	-36.9	-.1	689.7

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	.6	0.0	0.0	0.0	.011	0.000	0.000	0.00	0.0	0.00	3.2	.197	si
4-13	0.0	0.0	0.0	0.0	0.000	.001	.001	0.00	0.0	0.00	1.1	.040	si

----- PROGR.(9) 900.58

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-415794.6	42.7	0.0	2589.7	0.0	-2940.9

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	2.7	0.0	81.2	0.0	.894	0.000	.716	0.00	0.0	0.00	4.6	.287	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (16-85) 11

Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

As	L0	Lam	LamRel	k	kc
Z	900.58	97.49	1.653	2.002	.319
Y	900.58	103.99	1.763	2.201	.284

Instabilita' torsionale

L0	Scrit	LamRel	K crit
900.58	1454.7	.406	1.000
900.58	1655.1	.381	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	0.0	0.0	0.0	-1001.8	0.0	1970.7

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	1.0	0.0	0.0	0.000	.044	.044	0.00	0.0	0.00	3.1	.192	si

----- PROGR.(4) 337.72

Caso	MZ	MY	MT	N	TZ	TY
1- 1	351573.3	14.3	0.0	-250.4	0.0	111.3

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	.3	68.7	0.0	.715	.725	.523	0.00	0.0	0.00	.2	.011	si

----- PROGR.(9) 900.58

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-457960.5	38.2	0.0	1001.8	0.0	-2987.8

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	1.0	0.0	89.4	0.0	.950	0.000	.868	0.00	0.0	0.00	4.7	.292	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (19-84) 13
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit
Z	900.58	97.49	1.653	2.002	.319	900.58	1454.7	.406	1.000
Y	900.58	103.99	1.763	2.201	.284	900.58	1655.1	.381	1.000

----- PROGR.(1) 0.00

Caso	MZ	MY	MT	N	TZ	TY
1- 1	0.0	0.0	0.0	632.1	0.0	2017.0
4-12	0.0	0.0	0.0	-46.0	.1	689.5

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	.7	0.0	0.0	0.0	.012	0.000	0.000	0.00	0.0	0.00	3.2	.197	si
4-12	0.0	0.0	0.0	0.0	0.000	.001	.001	0.00	0.0	0.00	1.1	.040	si

----- PROGR.(9) 900.58

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-416288.3	-24.6	0.0	2635.7	0.0	-2941.5

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	2.7	0.0	81.3	0.0	.896	0.000	.717	0.00	0.0	0.00	4.6	.287	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (22-83) 15
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit
Z	900.58	97.49	1.653	2.002	.319	900.58	1454.7	.406	1.000
Y	900.58	103.99	1.763	2.201	.284	900.58	1655.1	.381	1.000

----- PROGR.(1) 0.00

Caso	MZ	MY	MT	N	TZ	TY
1- 1	0.0	0.0	0.0	-1001.8	-.2	1970.7

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	1.0	0.0	0.0	0.000	.044	.044	0.00	0.0	0.00	3.1	.192	si

----- PROGR.(4) 337.72

Caso	MZ	MY	MT	N	TZ	TY
1- 1	351550.4	66.7	0.0	-250.4	-.2	111.2

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	.3	68.7	0.0	.715	.725	.522	0.00	0.0	0.00	.2	.011	si

----- PROGR.(9) 900.58

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-458021.5	177.8	0.0	1001.8	-.2	-2987.8

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	1.0	0.0	89.5	0.0	.951	0.000	.868	0.00	0.0	0.00	4.7	.292	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (25-82) 17
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit
Z	900.58	97.49	1.653	2.002	.319	900.58	1454.7	.406	1.000
Y	900.58	103.99	1.763	2.201	.284	900.58	1655.1	.381	1.000

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----- PROGR.( 1)      0.00
SOLLECITAZIONI      :
| Caso |      MZ |      MY |      MT |      N |      TZ |      TY |
| 1- 1 |      0.0 |      0.0 |      0.0 | 840.9 |      -.1 | 2014.6 |

TENSIONI      :
| Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIf1 | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
| 1- 1 |      .9 |      0.0 |      0.0 |      0.0 | .016 | 0.000 | 0.000 | 0.00 | 0.0 | 0.00 | 3.1 | .197 | si |

----- PROGR.( 9)      900.58
SOLLECITAZIONI      :
| Caso |      MZ |      MY |      MT |      N |      TZ |      TY |
| 1- 1 | -418480.6 | 111.8 |      0.0 | 2844.5 |      -.1 | -2943.9 |

TENSIONI      :
| Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIf1 | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
| 1- 1 |      3.0 |      0.0 | 81.7 |      0.0 | .904 | 0.000 | .725 | 0.00 | 0.0 | 0.00 | 4.6 | .287 | si |

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (28-81) 19
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale
| As | L0 | Lam | LamRel | k | kc |
| Z | 900.58 | 97.49 | 1.653 | 2.002 | .319 |
| Y | 900.58 | 103.99 | 1.763 | 2.201 | .284 |

Instabilita' torsionale
| L0 | Scrit | LamRel | K crit |
| 900.58 | 1454.7 | .406 | 1.000 |
| 900.58 | 1655.1 | .381 | 1.000 |

----- PROGR.( 1)      0.00
SOLLECITAZIONI      :
| Caso |      MZ |      MY |      MT |      N |      TZ |      TY |
| 1- 1 |      0.0 |      0.0 |      0.0 | -1001.8 |      1.3 | 1970.9 |

TENSIONI      :
| Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIf1 | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
| 1- 1 |      0.0 |      1.0 |      0.0 |      0.0 | 0.000 | .044 | .044 | 0.00 | 0.0 | 0.00 | 3.1 | .192 | si |

----- PROGR.( 4)      337.72
SOLLECITAZIONI      :
| Caso |      MZ |      MY |      MT |      N |      TZ |      TY |
| 1- 1 | 351641.0 | -430.8 |      0.0 | -250.4 |      1.3 | 111.5 |

TENSIONI      :
| Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIf1 | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
| 1- 1 |      0.0 |      .3 | 68.7 |      .1 | .716 | .726 | .523 | 0.00 | 0.0 | 0.00 | .2 | .011 | si |

----- PROGR.( 9)      900.58
SOLLECITAZIONI      :
| Caso |      MZ |      MY |      MT |      N |      TZ |      TY |
| 1- 1 | -457780.0 | -1148.7 |      0.0 | 1001.8 |      1.3 | -2987.6 |

TENSIONI      :
| Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIf1 | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
| 1- 1 |      1.0 |      0.0 | 89.4 |      .2 | .952 | 0.000 | .867 | 0.00 | 0.0 | 0.00 | 4.7 | .292 | si |

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (31-80) 21
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale
| As | L0 | Lam | LamRel | k | kc |
| Z | 900.58 | 97.49 | 1.653 | 2.002 | .319 |
| Y | 900.58 | 103.99 | 1.763 | 2.201 | .284 |

Instabilita' torsionale
| L0 | Scrit | LamRel | K crit |
| 900.58 | 1454.7 | .406 | 1.000 |
| 900.58 | 1655.1 | .381 | 1.000 |

----- PROGR.( 1)      0.00
SOLLECITAZIONI      :
| Caso |      MZ |      MY |      MT |      N |      TZ |      TY |
| 1- 1 |      0.0 |      0.0 |      0.0 | -416.1 |      0.0 | 2029.1 |

TENSIONI      :
| Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIf1 | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
| 1- 1 |      0.0 |      .4 |      0.0 |      0.0 | 0.000 | .018 | .018 | 0.00 | 0.0 | 0.00 | 3.2 | .198 | si |

----- PROGR.( 2)      112.57
SOLLECITAZIONI      :
| Caso |      MZ |      MY |      MT |      N |      TZ |      TY |
| 1- 1 | 193539.9 | -1.2 |      0.0 | -165.7 |      0.0 | 1409.3 |

TENSIONI      :
| Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIf1 | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
| 1- 1 |      0.0 |      .2 | 37.8 |      0.0 | .394 | .400 | .162 | 0.00 | 0.0 | 0.00 | 2.2 | .138 | si |

----- PROGR.( 9)      900.58
SOLLECITAZIONI      :
| Caso |      MZ |      MY |      MT |      N |      TZ |      TY |
| 1- 1 | -405365.8 | -9.6 |      0.0 | 1587.5 |      0.0 | -2929.4 |

TENSIONI      :
| Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIf1 | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
| 1- 1 |      1.7 |      0.0 | 79.2 |      0.0 | .854 | 0.000 | .680 | 0.00 | 0.0 | 0.00 | 4.6 | .286 | si |

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (46-45) 29
Khz= 1 ; Khy= 1 ; Kht= 1

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Instabilita' flessionale							Instabilita' torsionale			
AS	L0	Lam	LamRel	k	kc		L0	Scrit	LamRel	k crit
Z	191.44	20.72	.351	.567	.988		191.44	6843.2	.187	1.000
Y	191.44	22.11	.375	.578	.983		191.44	7786.1	.176	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	8383.0	4467.0	0.0	-2082.4	23.3	22.7	

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	2.2	1.6	.9	.025	.050	.027	0.00	0.0	0.00	0.0	.002	si

----- PROGR.(9) 191.44

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	0.0	0.0	0.0	-2136.1	23.3	-110.2	

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	2.2	0.0	0.0	.001	.027	.027	0.00	0.0	0.00	.2	.011	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (48-47) 30
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale							Instabilita' torsionale			
AS	L0	Lam	LamRel	k	kc		L0	Scrit	LamRel	k crit
Z	356.54	38.60	.654	.750	.897		356.54	3674.4	.256	1.000
Y	356.54	41.17	.698	.783	.878		356.54	4180.7	.240	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	-28348.8	4141.3	0.0	-4861.2	11.6	203.3	

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	5.1	5.5	.9	.068	.131	.072	0.00	0.0	0.00	.3	.020	si

----- PROGR.(9) 356.54

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	0.0	0.0	0.0	-4961.2	11.6	-44.3	

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	5.2	0.0	0.0	.004	.070	.070	0.00	0.0	0.00	.1	.004	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (50-49) 31
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale							Instabilita' torsionale			
AS	L0	Lam	LamRel	k	kc		L0	Scrit	LamRel	k crit
Z	536.57	58.09	.985	1.054	.701		536.57	2441.6	.314	1.000
Y	536.57	61.96	1.051	1.127	.652		536.57	2777.9	.294	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	-73746.0	10415.8	0.0	-6709.9	19.4	323.7	

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	7.0	14.4	2.2	.173	.285	.150	0.00	0.0	0.00	.5	.032	si

----- PROGR.(9) 536.57

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	0.0	0.0	0.0	-6860.4	19.4	-48.8	
5- 9	0.0	0.0	0.0	-2770.2	8.6	-93.3	

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	7.1	0.0	0.0	.007	.131	.131	0.00	0.0	0.00	.1	.005	si
5- 9	0.0	2.9	0.0	0.0	0.000	.032	.032	0.00	0.0	0.00	.1	.005	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (52-51) 32
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale							Instabilita' torsionale			
AS	L0	Lam	LamRel	k	kc		L0	Scrit	LamRel	k crit
Z	709.14	76.77	1.302	1.447	.481		709.14	1847.4	.360	1.000
Y	709.14	81.88	1.388	1.573	.433		709.14	2101.9	.338	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	-132693.6	23306.1	0.0	-2177.4	32.9	433.3	

TENSIONI :
 | Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIf1 | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
 | 1- 1 | 0.0 | 2.3 | 25.9 | 4.9 | .306 | .362 | .135 | 0.00 | .1 | 0.00 | .7 | .042 | si |

----- PROGR.(9) 709.14

SOLLECITAZIONI :
Caso	MZ	MY	MT	N	TZ	TY
1- 1	0.0	0.0	0.0	-2376.3	32.9	-59.1
4-11	0.0	0.0	0.0	-880.6	12.0	-113.6

TENSIONI :
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	2.5	0.0	0.0	.001	.068	.068	0.00	.1	0.00	.1	.006	si
4-11	0.0	.9	0.0	0.0	0.000	.015	.015	0.00	0.0	0.00	.2	.007	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (53-46) 33
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit
Z	191.44	20.72	.351	.567	.988	191.44	6843.3	.187	1.000
Y	191.44	22.11	.375	.578	.983	191.44	7786.1	.176	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :
 | Caso | MZ | MY | MT | N | TZ | TY |
 | 1- 1 | 0.0 | 0.0 | 0.0 | -2301.2 | -25.1 | 516.6 |

TENSIONI :
 | Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIf1 | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
 | 1- 1 | 0.0 | 2.4 | 0.0 | 0.0 | .001 | .029 | .029 | 0.00 | 0.0 | 0.00 | .8 | .050 | si |

----- PROGR.(4) 71.79

SOLLECITAZIONI :
 | Caso | MZ | MY | MT | N | TZ | TY |
 | 1- 1 | 23474.5 | 1804.8 | 0.0 | -2152.7 | -25.1 | 149.2 |

TENSIONI :
 | Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIf1 | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
 | 1- 1 | 0.0 | 2.2 | 4.6 | .4 | .051 | .078 | .029 | 0.00 | 0.0 | 0.00 | .2 | .015 | si |

----- PROGR.(6) 119.65

SOLLECITAZIONI :
 | Caso | MZ | MY | MT | N | TZ | TY |
 | 1- 1 | 25572.5 | 3007.9 | 0.0 | -2069.7 | -25.1 | -56.3 |

TENSIONI :
 | Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIf1 | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
 | 1- 1 | 0.0 | 2.2 | 5.0 | .6 | .057 | .083 | .029 | 0.00 | 0.0 | 0.00 | .1 | .005 | si |

----- PROGR.(9) 191.44

SOLLECITAZIONI :
 | Caso | MZ | MY | MT | N | TZ | TY |
 | 1- 1 | 12173.3 | 4812.7 | 0.0 | -1969.2 | -25.1 | -305.2 |

TENSIONI :
 | Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIf1 | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
 | 1- 1 | 0.0 | 2.1 | 2.4 | 1.0 | .033 | .057 | .025 | 0.00 | 0.0 | 0.00 | .5 | .030 | si |

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (54-48) 34
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit
Z	356.54	38.60	.654	.750	.897	356.54	3674.4	.256	1.000
Y	356.54	41.17	.698	.783	.878	356.54	4180.7	.240	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :
 | Caso | MZ | MY | MT | N | TZ | TY |
 | 1- 1 | 0.0 | 0.0 | 0.0 | -5330.3 | -12.3 | 938.7 |

TENSIONI :
 | Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIf1 | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
 | 1- 1 | 0.0 | 5.6 | 0.0 | 0.0 | .004 | .075 | .075 | 0.00 | 0.0 | 0.00 | 1.5 | .092 | si |

----- PROGR.(4) 133.70

SOLLECITAZIONI :
 | Caso | MZ | MY | MT | N | TZ | TY |
 | 1- 1 | 73467.3 | 1641.5 | 0.0 | -5019.0 | -12.3 | 168.3 |

TENSIONI :
 | Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIf1 | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
 | 1- 1 | 0.0 | 5.2 | 14.3 | .3 | .156 | .221 | .093 | 0.00 | 0.0 | 0.00 | .3 | .016 | si |

----- PROGR.(5) 178.27

SOLLECITAZIONI :
 | Caso | MZ | MY | MT | N | TZ | TY |
 | 1- 1 | 75469.1 | 2188.7 | 0.0 | -4919.6 | -12.3 | -77.6 |

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	5.1	14.7	.5	.161	.225	.093	0.00	0.0	0.00	.1	.008	si

----- PROGR.(9) 356.54

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-22491.6	4377.5	0.0	-4544.1	-12.3	-1006.8

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	4.7	4.4	.9	.056	.115	.066	0.00	0.0	0.00	1.6	.098	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (55-50) 35
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	k crit
Z	536.57	58.09	.985	1.054	.701	536.57	2441.6	.314	1.000
Y	536.57	61.96	1.051	1.127	.652	536.57	2778.0	.294	1.000

----- PROGR.(1) 0.00

Caso	MZ	MY	MT	N	TZ	TY
1- 1	0.0	0.0	0.0	-7363.5	-21.3	1395.7

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	7.7	0.0	0.0	.008	.140	.140	0.00	0.0	0.00	2.2	.136	si

----- PROGR.(5) 268.28

Caso	MZ	MY	MT	N	TZ	TY
1- 1	167669.5	5707.0	0.0	-6745.8	-21.3	-133.3

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	7.0	32.7	1.2	.357	.469	.245	0.00	0.0	0.00	.2	.013	si

----- PROGR.(9) 536.57

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-64804.1	11414.1	0.0	-6158.3	-21.3	-1587.3

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	6.4	12.7	2.4	.155	.258	.135	0.00	0.0	0.00	2.5	.155	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (56-52) 36
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	k crit
Z	709.14	76.77	1.302	1.447	.481	709.14	1847.4	.360	1.000
Y	709.14	81.88	1.388	1.573	.433	709.14	2101.9	.338	1.000

----- PROGR.(1) 0.00

Caso	MZ	MY	MT	N	TZ	TY
1- 1	0.0	0.0	0.0	-3093.0	-29.8	2059.7

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	3.2	0.0	0.0	.001	.089	.089	0.00	0.0	0.00	3.2	.201	si

----- PROGR.(5) 354.57

Caso	MZ	MY	MT	N	TZ	TY
1- 1	319073.1	10549.6	0.0	-2158.9	-29.8	-251.7

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	2.2	62.3	2.2	.666	.721	.483	0.00	0.0	0.00	.4	.025	si

----- PROGR.(9) 709.14

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-172560.1	21099.2	0.0	-1245.1	-29.8	-2513.1

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	1.3	33.7	4.4	.383	.415	.159	0.00	0.0	0.00	3.9	.245	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (62-61) 41
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	k crit
Z	894.44	96.83	1.642	1.982	.323	894.44	1464.7	.405	1.000
Y	894.44	103.28	1.751	2.179	.288	894.44	1666.5	.379	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-28064.9	198.1	0.0	205.9	.2	341.9

TENSIONI :

Caso	StOd	ScOd	Smzd	Smyd	fsPfd	fsIfI	fsItO	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	.2	0.0	5.5	0.0	.061	0.000	.003	0.00	0.0	0.00	.5	.033	si

----- PROGR.(5) 447.22

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	55393.6	99.1	0.0	80.4	.2	31.4

TENSIONI :

Caso	StOd	ScOd	Smzd	Smyd	fsPfd	fsIfI	fsItO	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	.1	0.0	10.8	0.0	.114	0.000	.013	0.00	0.0	0.00	0.0	.003	si

----- PROGR.(8) 782.64

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	26865.8	24.8	0.0	-13.6	.2	-201.5

TENSIONI :

Caso	StOd	ScOd	Smzd	Smyd	fsPfd	fsIfI	fsItO	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	5.2	0.0	.055	.055	.004	0.00	0.0	0.00	.3	.020	si

----- PROGR.(9) 894.44

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	0.0	0.0	0.0	-45.0	.2	-279.1
5- 2	0.0	0.0	0.0	-89.3	.1	-203.2

TENSIONI :

Caso	StOd	ScOd	Smzd	Smyd	fsPfd	fsIfI	fsItO	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	0.0	0.0	0.000	.002	.002	0.00	0.0	0.00	.4	.027	si
5- 2	0.0	.1	0.0	0.0	0.000	.002	.002	0.00	0.0	0.00	.3	.012	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (34-65) 46
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

As	L0	Lam	LamRel	k	kc
Z	900.58	97.49	1.653	2.002	.319
Y	900.58	103.99	1.763	2.201	.284

Instabilita' torsionale

L0	Scrit	LamRel	K crit
900.58	1454.7	.406	1.000
900.58	1655.1	.381	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	0.0	0.0	0.0	-564.1	-1.6	1111.1

TENSIONI :

Caso	StOd	ScOd	Smzd	Smyd	fsPfd	fsIfI	fsItO	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	.6	0.0	0.0	0.000	.025	.025	0.00	0.0	0.00	1.7	.109	si

----- PROGR.(4) 337.72

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	198469.1	536.8	0.0	-141.0	-1.6	64.2

TENSIONI :

Caso	StOd	ScOd	Smzd	Smyd	fsPfd	fsIfI	fsItO	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	.1	38.8	.1	.405	.410	.169	0.00	0.0	0.00	.1	.006	si

----- PROGR.(9) 900.58

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-256475.2	1431.4	0.0	564.1	-1.6	-1680.7

TENSIONI :

Caso	StOd	ScOd	Smzd	Smyd	fsPfd	fsIfI	fsItO	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	.6	0.0	50.1	.3	.534	0.000	.272	0.00	0.0	0.00	2.6	.164	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (65-35) 47
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

As	L0	Lam	LamRel	k	kc
Z	156.39	16.93	.287	.540	1.003
Y	156.39	18.06	.306	.548	.999

Instabilita' torsionale

L0	Scrit	LamRel	K crit
156.39	8377.0	.169	1.000
156.39	9531.2	.159	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-271416.3	15872.6	-6403.8	4187.7	0.0	2253.3

TENSIONI :

Caso	StOd	ScOd	Smzd	Smyd	fsPfd	fsIfI	fsItO	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	4.4	0.0	53.0	3.3	.654	0.000	.305	1.05	0.0	1.05	3.5	.105	si

----- PROGR.(9) 156.39

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	42993.9	15872.6	-6403.8	4383.3	0.0	1768.5

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	4.6	0.0	8.4	3.3	.193	0.000	.008	1.05	0.0	1.05	2.8	.086	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (63-46) 50
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

As	L0	Lam	LamRel	k	kc
Z	261.34	28.29	.480	.633	.956
Y	261.34	30.18	.512	.652	.947

Instabilita' torsionale

L0	Scrit	LamRel	k crit
261.34	5012.8	.219	1.000
261.34	5703.5	.205	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	0.0	0.0	0.0	8236.2	-.5	179.3

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	8.6	0.0	0.0	0.0	.153	0.000	0.000	0.00	0.0	0.00	.3	.018	si

----- PROGR.(9) 261.34

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-24450.9	137.7	0.0	8366.1	-.5	-275.2

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	8.7	0.0	4.8	0.0	.206	0.000	.002	0.00	0.0	0.00	.4	.027	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (46-48) 51
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

As	L0	Lam	LamRel	k	kc
Z	225.14	24.37	.413	.597	.974
Y	225.14	26.00	.441	.611	.966

Instabilita' torsionale

L0	Scrit	LamRel	k crit
225.14	5818.8	.203	1.000
225.14	6620.5	.190	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-7457.8	-265.6	-2577.0	5428.0	-2.4	148.3

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	5.7	0.0	1.5	.1	.117	0.000	0.000	.42	0.0	.42	.2	.023	si

----- PROGR.(8) 197.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	7787.9	210.1	-2577.0	5468.5	-2.4	6.4

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	5.7	0.0	1.5	0.0	.118	0.000	0.000	.42	0.0	.42	0.0	.023	si

----- PROGR.(9) 225.14

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	7684.0	278.0	-2577.0	5474.3	-2.4	-13.8

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	5.7	0.0	1.5	.1	.118	0.000	0.000	.42	0.0	.42	0.0	.023	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (48-50) 52
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

As	L0	Lam	LamRel	k	kc
Z	245.51	26.58	.451	.617	.964
Y	245.51	28.35	.481	.634	.956

Instabilita' torsionale

L0	Scrit	LamRel	k crit
245.51	5336.1	.212	1.000
245.51	6071.3	.199	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-26008.7	-630.7	-6559.4	-1406.3	-7.9	517.7

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	1.5	5.1	.1	.054	.072	.021	1.08	0.0	1.08	.8	.061	si

----- PROGR.(9) 245.51

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	79373.4	1302.3	-6559.4	-1355.9	-7.9	340.9

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	1.4	15.5	.3	.164	.181	.044	1.08	0.0	1.08	.5	.059	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (50-52) 53
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale							Instabilita' torsionale				
AS	L0	Lam	LamRel	k	kc		L0	Scrit	LamRel	k crit	
Z	235.33	25.47	.432	.606	.969		235.33	5567.0	.208	1.000	
Y	235.33	27.17	.461	.622	.961		235.33	6334.0	.195	1.000	

----- PROGR.(1) 0.00

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
1- 1	-12813.9	524.4	-12639.3	-10764.7	17.7	821.0

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	11.2	2.5	.1	.045	.165	.140	2.07	0.0	2.07	1.3	.118	si

----- PROGR.(9) 235.33

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
1- 1	160464.8	-3645.4	-12639.3	-10716.3	17.7	651.6

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	11.2	31.3	.8	.350	.469	.245	2.07	0.0	2.07	1.0	.116	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (52-66) 54
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale							Instabilita' torsionale				
AS	L0	Lam	LamRel	k	kc		L0	Scrit	LamRel	k crit	
Z	40.45	4.38	.074	.480	1.048		40.45	32388.	.086	1.000	
Y	40.45	4.67	.079	.481	1.047		40.45	36850.	.081	1.000	

----- PROGR.(1) 0.00

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
1- 1	-43617.7	1969.6	14465.7	-13183.8	80.1	-1554.9

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	13.7	8.5	.4	.118	0.000	.164	2.37	.1	2.37	2.4	.151	si

----- PROGR.(9) 40.45

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
1- 1	-107093.7	-1271.1	14465.7	-13175.5	80.1	-1584.0

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	13.7	20.9	.3	.247	0.000	.204	2.37	.1	2.37	2.5	.152	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (66-62) 55
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale							Instabilita' torsionale				
AS	L0	Lam	LamRel	k	kc		L0	Scrit	LamRel	k crit	
Z	213.27	23.09	.391	.586	.979		213.27	6142.9	.198	1.000	
Y	213.27	24.63	.418	.599	.972		213.27	6989.2	.185	1.000	

----- PROGR.(1) 0.00

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
1- 1	-86645.1	50449.4	26407.5	125.4	347.2	669.1
4- 5	-36383.2	17720.4	9496.2	-17.2	106.1	351.7

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	.1	0.0	16.9	10.5	.255	0.000	.031	4.33	.5	4.33	1.0	.238	si
4- 5	0.0	0.0	7.1	3.7	.061	.061	.002	1.56	.2	1.56	.5	.051	si

----- PROGR.(9) 213.27

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
1- 1	842.3	-23586.4	26407.5	256.4	347.2	209.8

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	.3	0.0	.2	4.9	.057	0.000	.003	4.33	.5	4.33	.3	.235	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (80-32) 73
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale							Instabilita' torsionale				
AS	L0	Lam	LamRel	k	kc		L0	Scrit	LamRel	k crit	
Z	156.39	16.93	.287	.540	1.003		156.39	8377.0	.169	1.000	
Y	156.39	18.06	.306	.548	.999		156.39	9531.2	.159	1.000	


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----- PROGR.( 1)      0.00
SOLLECITAZIONI      :
| Caso |      MZ |      MY |      MT |      N |      TZ |      TY |
| 1- 1 | -382733.7 | -1797.8 | 725.3 | 1755.6 | 0.0 | 1709.5 |

TENSIONI      :
| Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIf1 | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
| 1- 1 | 1.8 | 0.0 | 74.8 | .4 | .814 | 0.000 | .606 | .12 | 0.0 | .12 | 2.7 | .034 | si |

----- PROGR.( 9)      156.39
SOLLECITAZIONI      :
| Caso |      MZ |      MY |      MT |      N |      TZ |      TY |
| 1- 1 | -182760.5 | -1797.8 | 725.3 | 2102.9 | 0.0 | 848.4 |

TENSIONI      :
| Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIf1 | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
| 1- 1 | 2.2 | 0.0 | 35.7 | .4 | .414 | 0.000 | .138 | .12 | 0.0 | .12 | 1.3 | .013 | si |

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (82-26) 75
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale
| As | L0 | Lam | LamRel | k | kc |
| Z | 156.39 | 16.93 | .287 | .540 | 1.003 |
| Y | 156.39 | 18.06 | .306 | .548 | .999 |

Instabilita' torsionale
| L0 | Scrit | LamRel | K crit |
| 156.39 | 8377.0 | .169 | 1.000 |
| 156.39 | 9531.2 | .159 | 1.000 |

----- PROGR.( 1)      0.00
SOLLECITAZIONI      :
| Caso |      MZ |      MY |      MT |      N |      TZ |      TY |
| 1- 1 | -406583.5 | 205.2 | -82.8 | 3125.2 | 0.0 | 2262.1 |

TENSIONI      :
| Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIf1 | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
| 1- 1 | 3.3 | 0.0 | 79.4 | 0.0 | .886 | 0.000 | .684 | .01 | 0.0 | .01 | 3.5 | .050 | si |

----- PROGR.( 9)      156.39
SOLLECITAZIONI      :
| Caso |      MZ |      MY |      MT |      N |      TZ |      TY |
| 1- 1 | -120211.6 | 205.2 | -82.8 | 3472.6 | 0.0 | 1401.0 |
| 4- 1 | -41895.6 | -153.6 | 52.2 | 1188.2 | 5.6 | 470.5 |

TENSIONI      :
| Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIf1 | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
| 1- 1 | 3.6 | 0.0 | 23.5 | 0.0 | .309 | 0.000 | .060 | .01 | 0.0 | .01 | 2.2 | .019 | si |
| 4- 1 | 1.2 | 0.0 | 8.2 | 0.0 | .065 | 0.000 | .003 | .01 | 0.0 | .01 | .7 | .028 | si |

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (84-20) 77
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale
| As | L0 | Lam | LamRel | k | kc |
| Z | 156.39 | 16.93 | .287 | .540 | 1.003 |
| Y | 156.39 | 18.06 | .306 | .548 | .999 |

Instabilita' torsionale
| L0 | Scrit | LamRel | K crit |
| 156.39 | 8377.0 | .169 | 1.000 |
| 156.39 | 9531.2 | .159 | 1.000 |

----- PROGR.( 1)      0.00
SOLLECITAZIONI      :
| Caso |      MZ |      MY |      MT |      N |      TZ |      TY |
| 1- 1 | -403761.3 | -48.2 | 19.6 | 2930.9 | 0.0 | 2183.7 |

TENSIONI      :
| Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIf1 | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
| 1- 1 | 3.1 | 0.0 | 78.9 | 0.0 | .876 | 0.000 | .675 | 0.00 | 0.0 | 0.00 | 3.4 | .213 | si |

----- PROGR.( 9)      156.39
SOLLECITAZIONI      :
| Caso |      MZ |      MY |      MT |      N |      TZ |      TY |
| 1- 1 | -129640.5 | -48.0 | 19.6 | 3278.3 | 0.0 | 1322.7 |

TENSIONI      :
| Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIf1 | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
| 1- 1 | 3.4 | 0.0 | 25.3 | 0.0 | .325 | 0.000 | .070 | 0.00 | 0.0 | 0.00 | 2.1 | .129 | si |

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (86-14) 79
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale
| As | L0 | Lam | LamRel | k | kc |
| Z | 156.39 | 16.93 | .287 | .540 | 1.003 |
| Y | 156.39 | 18.06 | .306 | .548 | .999 |

Instabilita' torsionale
| L0 | Scrit | LamRel | K crit |
| 156.39 | 8377.0 | .169 | 1.000 |
| 156.39 | 9531.2 | .159 | 1.000 |

----- PROGR.( 1)      0.00
SOLLECITAZIONI      :
| Caso |      MZ |      MY |      MT |      N |      TZ |      TY |
| 1- 1 | -403119.2 | 90.7 | -37.2 | 2888.3 | 0.0 | 2166.4 |

TENSIONI      :
| Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIf1 | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
| 1- 1 | 3.0 | 0.0 | 78.7 | 0.0 | .874 | 0.000 | .673 | .01 | 0.0 | .01 | 3.4 | .212 | si |

----- PROGR.( 9)      156.39
SOLLECITAZIONI      :

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Caso	MZ	MY	MT	N	TZ	TY
1- 1	-131709.0	89.9	-37.2	3235.7	0.0	1305.3

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	3.4	0.0	25.7	0.0	.328	0.000	.072	.01	0.0	.01	2.0	.127	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (88-8) 81
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

As	L0	Lam	LamRel	k	kc
Z	156.39	16.93	.287	.540	1.003
Y	156.39	18.06	.306	.548	.999

Instabilita' torsionale

L0	Scrit	LamRel	k crit
156.39	8377.0	.169	1.000
156.39	9531.2	.159	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-410191.0	-560.4	228.9	3362.7	0.0	2358.5

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	3.5	0.0	80.1	.1	.898	0.000	.696	.04	0.0	.04	3.7	.055	si

----- PROGR.(9) 156.39

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-108744.5	-556.3	228.9	3710.1	0.0	1497.4
4-12	-38559.0	120.8	-58.9	1224.4	-8.5	504.3

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	3.9	0.0	21.2	.1	.291	0.000	.049	.04	0.0	.04	2.3	.023	si
4-12	1.3	0.0	7.5	0.0	.061	0.000	.002	.01	0.0	.01	.8	.030	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (90-66) 83
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

As	L0	Lam	LamRel	k	kc
Z	199.17	21.56	.366	.573	.985
Y	199.17	23.00	.390	.585	.979

Instabilita' torsionale

L0	Scrit	LamRel	k crit
199.17	6577.7	.191	1.000
199.17	7484.0	.179	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	286528.4	96209.2	-3694.3	1.3	249.7	-1527.5
4- 2	98573.5	34130.6	-997.7	-32.1	101.0	-531.9

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	56.0	20.0	.729	0.000	.340	.61	.4	.61	2.4	.055	si
4- 2	0.0	0.0	19.3	7.1	.151	.152	.015	.16	.2	.16	.8	.006	si

----- PROGR.(9) 199.17

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-32613.0	46461.9	-3694.3	1.3	249.7	-1676.7
5- 4	-18700.4	15057.9	-1029.4	-97.7	74.7	-628.2

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	6.4	9.7	.147	0.000	.010	.61	.4	.61	2.6	.059	si
5- 4	0.0	.1	3.7	3.1	.037	.037	.001	.17	.1	.17	1.0	.007	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (90-2) 85
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

As	L0	Lam	LamRel	k	kc
Z	156.39	16.93	.287	.540	1.003
Y	156.39	18.06	.306	.548	.999

Instabilita' torsionale

L0	Scrit	LamRel	k crit
156.39	8377.0	.169	1.000
156.39	9531.2	.159	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-453135.0	6719.8	-2789.6	1483.2	-.6	1606.3

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	1.5	0.0	88.5	1.4	.960	0.000	.850	.46	0.0	.46	2.5	.049	si

----- PROGR.(9) 156.39

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-267321.6	6811.7	-2789.6	1797.7	-.6	826.7

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	1.9	0.0	52.2	1.4	.588	0.000	.296	.46	0.0	.46	1.3	.031	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (65-80) 98
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit
Z	161.67	17.50	.297	.544	1.001	161.67	8103.5	.172	1.000
Y	161.67	18.67	.317	.552	.996	161.67	9220.0	.161	1.000

SOLLECITAZIONI								-----	PROGR.(1)	0.00
Caso	MZ	MY	MT	N	TZ	TY				
1- 1	-536.2	-15788.6	14941.2	0.0	-689.1	1538.3				
5-10	-132.3	-5671.3	4747.8	-106.3	-243.3	565.8				

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	.1	3.3	.035	0.000	.001	2.45	1.1	2.45	2.4	.155	si
5-10	0.0	.1	0.0	1.2	.007	.008	.001	.78	.4	.78	.9	.026	si

SOLLECITAZIONI								-----	PROGR.(9)	161.67
Caso	MZ	MY	MT	N	TZ	TY				
1- 1	238273.4	95570.1	14941.2	0.0	-689.1	1417.3				
4- 7	85065.7	35074.8	4784.9	-32.1	-254.7	480.3				

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	46.5	19.9	.630	0.000	.235	2.45	1.1	2.45	2.2	.151	si
4- 7	0.0	0.0	16.6	7.3	.136	.136	.011	.78	.4	.78	.8	.026	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (80-81) 99
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit
Z	161.67	17.50	.297	.544	1.001	161.67	8103.5	.172	1.000
Y	161.67	18.67	.317	.552	.996	161.67	9220.0	.161	1.000

SOLLECITAZIONI								-----	PROGR.(1)	0.00
Caso	MZ	MY	MT	N	TZ	TY				
1- 1	238277.0	97499.9	-7691.0	0.0	1204.2	-2821.9				
4- 6	85043.8	35771.4	-2739.5	-31.6	442.8	-992.7				

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	46.5	20.3	.633	0.000	.235	1.26	1.9	1.26	4.4	.144	si
4- 6	0.0	0.0	16.6	7.5	.136	.137	.011	.45	.7	.45	1.6	.018	si

SOLLECITAZIONI								-----	PROGR.(9)	161.67
Caso	MZ	MY	MT	N	TZ	TY				
1- 1	-227821.2	-97214.8	-7691.0	0.0	1204.2	-2943.0				
4- 6	-83057.1	-35846.3	-2739.5	-31.6	442.8	-1085.9				

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	44.5	20.3	.611	0.000	.215	1.26	1.9	1.26	4.6	.151	si
4- 6	0.0	0.0	16.2	7.5	.134	.134	.011	.45	.7	.45	1.7	.019	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (81-82) 100
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit
Z	161.67	17.50	.297	.544	1.001	161.67	8103.5	.172	1.000
Y	161.67	18.67	.317	.552	.996	161.67	9220.0	.161	1.000

SOLLECITAZIONI								-----	PROGR.(1)	0.00
Caso	MZ	MY	MT	N	TZ	TY				
1- 1	-227390.9	-96273.0	5925.4	.1	-1133.1	2602.1				
4- 7	-82904.6	-35659.3	2100.3	-26.4	-421.8	968.8				

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	44.4	20.1	.609	0.000	.214	.97	1.8	.97	4.1	.117	si
4- 7	0.0	0.0	16.2	7.4	.134	.134	.010	.34	.7	.34	1.5	.014	si

SOLLECITAZIONI								-----	PROGR.(9)	161.67
Caso	MZ	MY	MT	N	TZ	TY				
1- 1	183583.4	86949.8	5925.4	.1	-1133.1	2481.0				
4- 7	66254.5	32554.9	2100.3	-26.4	-421.8	875.6				

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	35.9	18.1	.506	0.000	.140	.97	1.8	.97	3.9	.111	si
4- 7	0.0	0.0	12.9	6.8	.111	.111	.007	.34	.7	.34	1.4	.014	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (82-83) 101

Kh_z= 1 ; Kh_y= 1 ; Kh_t= 1

Instabilita' flessionale						Instabilita' torsionale			
AS	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	k crit
Z	161.67	17.50	.297	.544	1.001	161.67	8103.5	.172	1.000
Y	161.67	18.67	.317	.552	.996	161.67	9220.0	.161	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI								
Caso	MZ	MY	MT	N	TZ	TY		
1- 1	183541.5	86832.2	-5971.6	-.1	1077.1	-2242.6		
4- 6	66229.5	32500.4	-2117.8	-26.1	403.2	-793.3		

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	35.8	18.1	.505	0.000	.139	.98	1.7	.98	3.5	.101	si
4- 6	0.0	0.0	12.9	6.8	.110	.111	.007	.35	.6	.35	1.2	.013	si

----- PROGR.(9) 161.67

SOLLECITAZIONI								
Caso	MZ	MY	MT	N	TZ	TY		
1- 1	-188642.6	-87220.2	-5971.6	-.1	1077.1	-2363.6		
4- 6	-69630.4	-32707.4	-2117.8	-26.1	403.2	-886.4		

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	36.8	18.2	.516	0.000	.147	.98	1.7	.98	3.7	.106	si
4- 6	0.0	0.0	13.6	6.8	.115	.115	.007	.35	.6	.35	1.4	.014	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (83-84) 102
Kh_z= 1 ; Kh_y= 1 ; Kh_t= 1

Instabilita' flessionale						Instabilita' torsionale			
AS	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	k crit
Z	161.67	17.50	.297	.544	1.001	161.67	8103.5	.172	1.000
Y	161.67	18.67	.317	.552	.996	161.67	9220.0	.161	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI								
Caso	MZ	MY	MT	N	TZ	TY		
1- 1	-188709.0	-87369.7	6268.8	0.0	-1090.1	2415.3		
4- 7	-69650.4	-32870.9	2240.4	-33.9	-411.6	909.8		

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	36.9	18.2	.517	0.000	.147	1.03	1.7	1.03	3.8	.111	si
4- 7	0.0	0.0	13.6	6.8	.115	.115	.007	.37	.6	.37	1.4	.015	si

----- PROGR.(9) 161.67

SOLLECITAZIONI								
Caso	MZ	MY	MT	N	TZ	TY		
1- 1	192054.6	88901.5	6268.8	0.0	-1090.1	2294.2		
4- 7	70007.5	33716.1	2240.4	-33.9	-411.6	816.6		

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	37.5	18.5	.526	0.000	.153	1.03	1.7	1.03	3.6	.106	si
4- 7	0.0	0.0	13.7	7.0	.116	.116	.008	.37	.6	.37	1.3	.014	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (84-85) 103
Kh_z= 1 ; Kh_y= 1 ; Kh_t= 1

Instabilita' flessionale						Instabilita' torsionale			
AS	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	k crit
Z	161.67	17.50	.297	.544	1.001	161.67	8103.5	.172	1.000
Y	161.67	18.67	.317	.552	.996	161.67	9220.0	.161	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI								
Caso	MZ	MY	MT	N	TZ	TY		
1- 1	192063.9	88930.7	-6258.1	0.0	1103.3	-2349.0		
4- 6	70005.3	33720.5	-2236.5	-34.1	417.0	-837.8		

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	37.5	18.5	.526	0.000	.153	1.03	1.7	1.03	3.7	.108	si
4- 6	0.0	0.0	13.7	7.0	.116	.116	.008	.37	.7	.37	1.3	.014	si

----- PROGR.(9) 161.67

SOLLECITAZIONI								
Caso	MZ	MY	MT	N	TZ	TY		
1- 1	-197555.3	-89469.2	-6258.1	0.0	1103.3	-2470.1		
4- 6	-73019.4	-33711.4	-2236.5	-34.1	417.0	-930.9		

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	38.6	18.6	.538	0.000	.162	1.03	1.7	1.03	3.9	.113	si
4- 6	0.0	0.0	14.3	7.0	.120	.120	.008	.37	.7	.37	1.5	.015	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (85-86) 104
Kh_z= 1 ; Kh_y= 1 ; Kh_t= 1

Instabilita' flessionale						Instabilita' torsionale					
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit		
Z	161.67	17.50	.297	.544	1.001	161.67	8103.5	.172	1.000		
Y	161.67	18.67	.317	.552	.996	161.67	9220.0	.161	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	-197570.8	-89508.9	6329.8	0.0	-1107.2	2483.6	
4- 7	-73066.0	-33600.1	2246.0	-33.5	-414.3	932.5	

TENSIONI :													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	38.6	18.6	.538	0.000	.162	1.04	1.7	1.04	3.9	.115	si
4- 7	0.0	0.0	14.3	7.0	.120	.120	.008	.37	.6	.37	1.5	.015	si

----- PROGR.(9) 161.67

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	194001.1	89416.8	6329.8	0.0	-1107.2	2362.6	
4- 3	70304.6	33533.7	2250.2	-33.6	-415.4	840.3	

TENSIONI :													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	37.9	18.6	.531	0.000	.156	1.04	1.7	1.04	3.7	.109	si
4- 3	0.0	0.0	13.7	7.0	.116	.117	.008	.37	.6	.37	1.3	.014	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (86-87) 105
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale					
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit		
Z	161.67	17.50	.297	.544	1.001	161.67	8103.5	.172	1.000		
Y	161.67	18.67	.317	.552	.996	161.67	9220.0	.161	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	193984.6	89358.3	-6345.5	0.0	1082.6	-2262.7	
4- 2	70307.5	33493.2	-2256.1	-33.2	404.8	-804.5	

TENSIONI :													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	37.9	18.6	.530	0.000	.156	1.04	1.7	1.04	3.5	.105	si
4- 2	0.0	0.0	13.7	7.0	.116	.117	.008	.37	.6	.37	1.3	.014	si

----- PROGR.(9) 161.67

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	-181689.7	-85695.4	-6345.5	0.0	1082.6	-2383.8	
4- 2	-67536.7	-32022.1	-2256.1	-33.2	404.8	-897.7	

TENSIONI :													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	35.5	17.9	.500	0.000	.137	1.04	1.7	1.04	3.7	.110	si
4- 2	0.0	0.0	13.2	6.7	.112	.112	.007	.37	.6	.37	1.4	.015	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (87-88) 106
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale					
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit		
Z	161.67	17.50	.297	.544	1.001	161.67	8103.5	.172	1.000		
Y	161.67	18.67	.317	.552	.996	161.67	9220.0	.161	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	-181526.1	-85315.8	5606.9	-.1	-1050.9	2254.5	

TENSIONI :													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	35.5	17.8	.499	.499	.136	.92	1.6	.92	3.5	.098	si

----- PROGR.(9) 161.67

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	173239.6	84609.7	5606.9	-.1	-1050.9	2133.4	

TENSIONI :													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	33.8	17.6	.481	.481	.124	.92	1.6	.92	3.3	.093	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (88-89) 107
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale					
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit		
Z	161.67	17.50	.297	.544	1.001	161.67	8103.5	.172	1.000		
Y	161.67	18.67	.317	.552	.996	161.67	9220.0	.161	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	173299.2	85074.0	-5362.5	.1	1208.0	-2677.9
4- 2	63705.5	31821.5	-1958.9	-33.9	437.4	-928.1

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	33.8	17.7	.482	0.000	.124	.88	1.9	.88	4.2	.116	si
4- 2	0.0	0.0	12.4	6.6	.107	.107	.006	.32	.7	.32	1.5	.013	si

----- PROGR.(9) 161.67

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-269225.2	-110133.5	-5362.5	.1	1208.0	-2798.9
4- 2	-94437.8	-39018.6	-1958.9	-33.9	437.4	-1021.2

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	52.6	22.9	.715	0.000	.300	.88	1.9	.88	4.4	.122	si
4- 2	0.0	0.0	18.4	8.1	.151	.151	.014	.32	.7	.32	1.6	.014	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (89-90) 108
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRe1	k	kc	L0	Scrit	LamRe1	k crit
Z	161.67	17.50	.297	.544	1.001	161.67	8103.5	.172	1.000
Y	161.67	18.67	.317	.552	.996	161.67	9220.0	.161	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-269929.9	-113805.2	14600.0	-1.5	-1355.2	3497.7

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	52.7	23.7	.722	.722	.302	2.40	2.1	2.40	5.5	.246	si

----- PROGR.(9) 161.67

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	285852.5	105337.6	14600.0	-1.5	-1355.2	3376.6

TENSIONI :

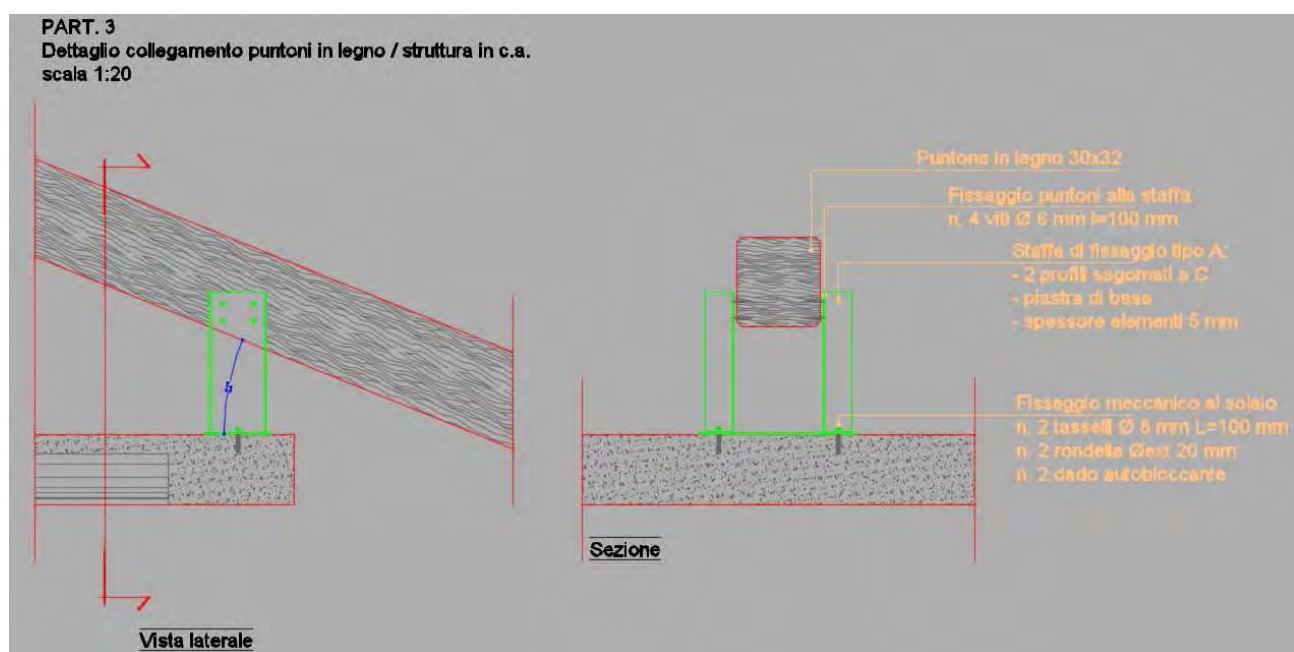
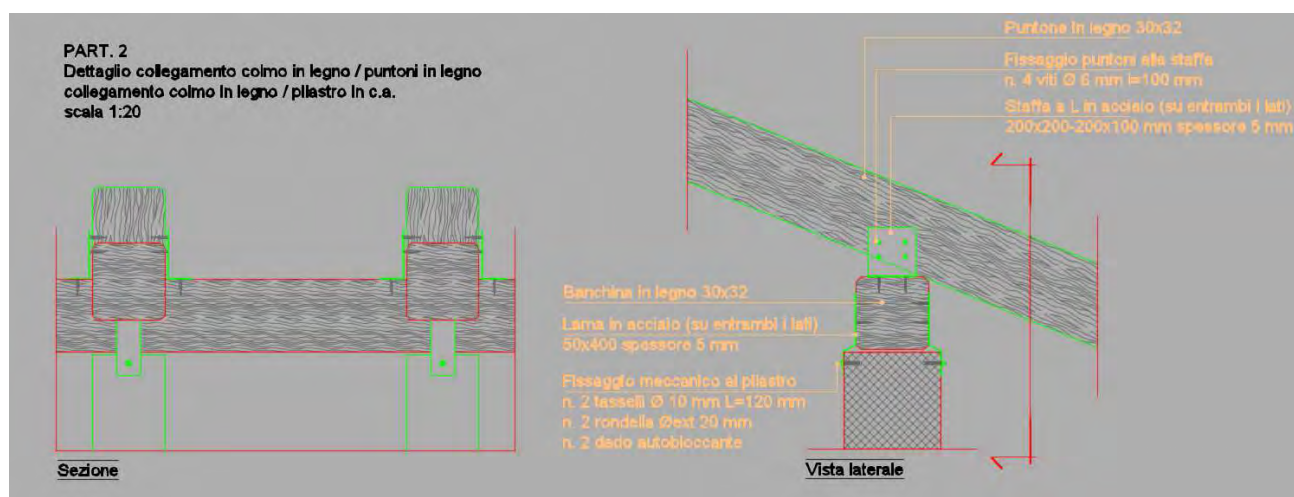
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	55.8	21.9	.742	.742	.338	2.40	2.1	2.40	5.3	.238	si

VERIFICA COLLEGAMENTI

I collegamenti tra:

- puntone e la trave di banchina (questa tipologia di collegamento viene realizzata mediante l'uso di viti da legno)
- puntone e sottostante struttura in c.a.

Lo schema statico adottato (trave inclinata vincolata alle estremità) determina la necessità di inserire questi elementi di connessione che risultano sottoposti ad azione di taglio sul piano perpendicolare all'asse della vite. Poiché si tratta di prodotti commerciali la scelta delle caratteristiche della vite viene fatta per confronto tra le sollecitazioni di calcolo e quelle resistenti individuabili nella documentazione tecnica di prodotto.



La soluzione progettuale prevede la connessione tra gli elementi senza la realizzazione di intagli, in modo tale da non ridurre le sezioni e evitare punti di discontinuità nella distribuzione delle sollecitazioni.

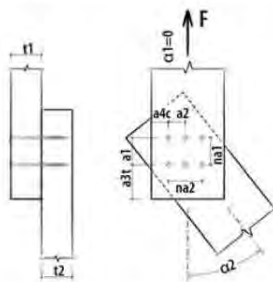
Le travi/cantonali, (poste lungo le bisettrici degli spigoli del fabbricato), e i puntoni sono definite come travi con vincolo a cerniere alle estremità.

Il collegamento puntone – cantonale è realizzato senza sormonto tra le travi e mediante unione con viti (unione a taglio)

La verifica della connessione (consistente nella determinazione del numero di viti necessarie per il trasferimento delle azioni) è condotta adottando un coefficiente di sicurezza pari a 1.5 , applicato sui valori massimi delle reazioni vincolari desunte dal modello di calcolo.

Gli elementi puntoni e cantonali sono quindi sottoposti a pressoflessione (azione spingente) che viene equilibrata al vincolo lato gronda con il solaio di piano sottotetto. Tale vincolo, realizzato mediante piastre con viti lato legno e con tasselli meccanici lato c.a. sottoposte a taglio, permette di ridistribuire sulla superficie del solaio l'azione spingente della copertura.

CONNESSIONE A TAGLIO CON VITI (Connessione legno-legno / taglio singolo)



Vite tipo Viti per legno HBS 8x280 mm - (cod. HBS8280)
(numero viti: 3 x 3 = 9 pz.)



Certificazione: ETA 11/0030

DATI DI CALCOLO

Connessione legno-legno / taglio singolo

Classe di servizio	(cl)	=	classe1
Durata carico dominante	(tq)	=	breve
coefficiente kmod	(kmod)	=	0.90
coefficiente sicurezza connessione	yM	=	1.50
Diametro nominale/filetto vite	(Ø)	=	8.0 mm
Diametro gambo	(Øg)	=	8.0 mm
Diametro nocciolo	(Øn)	=	5.4 mm
Diametro testa	(Øh)	=	14.5 mm
Lunghezza vite	(Lv)	=	280 mm
Lunghezza filetto	(Øn)	=	80 mm
Spessore legno elemento 1	(t1)	=	180 mm
Angolo elemento 1	(α1)	=	0.00°
Qualità legno elemento 1		=	Lamellare GL24h (omogeneo)
Spessore legno elemento 2	(t2)	=	100 mm
Angolo elemento 2	(α2)	=	0.00°
Qualità legno elemento 2		=	Lamellare GL24h (omogeneo)
Numero elementi paralleli alle fibre	nf	=	3
Distanza elementi paralleli alle fibre	(df)	=	150 mm
Numero elementi perpendicolari alle fibre	nc	=	3
Distanza elementi perpendicolari alle fibre	(dc)	=	150 mm
Forza di taglio di progetto da verificare	(Fvd)	=	15.00 KN

NOTE

Prima dell'esecuzione, tutti i calcoli devono essere verificati e approvati dal progettista responsabile.
Per i valori di resistenza meccanica e per la geometria si fa riferimento a quanto riportato nei certificati di prodotto.
Le verifiche di resistenza degli elementi lignei devono essere svolte a parte.

RISULTATI CALCOLO

DATI INGRESSO:

Classe di servizio
Durata carico dominante
coefficiente k_{mod}
coefficiente sicurezza connessione
Tipo legno elemento t1
Massa volumetrica legno
Tipo legno elemento t2
Massa volumetrica legno
Tipo acciaio
coeff. sicurezza acciaio
Spessore elemento 1
Spessore elemento 2
Angolo elemento 1
Angolo elemento 2
Numero file viti
Distanza file
Numero colonne viti
Distanza colonne

=
cl = 1
tq = breve
kmod = 0.90
yM = 1.5
= GL24h
rk = 380 Kg/m3
= GL24h
rk = 380 Kg/m3
=
yMa = 1.25 N/mm2
t1 = 180 mm
t2 = 180 mm
α1 = 0.00 °
α2 = 0.00 °
na1 = 3 mm
a1 = 150 mm
na2 = 3 mm
a2 = 150 mm

DATI VITE:

Viti per legno HBS 8x280
Diametro gambo vite
Diametro filetto vite
Diametro nocciolo vite
Diametro convenzionale EC5 vite
Lunghezza filettata vite
Lunghezza vite
Angolo di infissione
Senza preforatura
Senza sfalsamento
Diametro testa vite

=
= 5.8 mm
df = 8.0 mm
dn = 5.4 mm
def=df = 8.0 mm
lf = 60 mm
lh = 280 mm
β = 90.00 °
=
= 14.5 mm

RISULTATI:

Lunghezza penetrazione elemento 1
Lunghezza penetrazione elemento 2
Resistenza caratteristica trazione acciaio
Lunghezza efficace estrazione filetto (lato punta)
Resistenza estrazione filetto (lato punta)
Resistenza penetrazione testa
Resistenza caratteristica a rifollamento elemento 1
Resistenza caratteristica a rifollamento elemento 2
Momento di snervamento acciaio
Numero efficace viti parallele alle fibre elemento 1
Numero efficace viti parallele alle fibre elemento 2
Numero efficace viti parallele alle fibre

=
Lp1 = 180 mm
Lp2 = 100 mm
ftens,k = 20100 N
= 80 mm
Fax,rk = 6420 N
Fhead,rk = 1893 N
Fh,1,k = 16.70 N/mm2
Fh,1,k = 16.70 N/mm2
Myk = 20057 Nmm
nef = 3.00
nef = 3.00
nef = 3.00

DISTANZE MINIME elemento 1 (legno):

Parallela alle fibre
Perpendicolare alle fibre
Da estremità scarica (// fibre)
Da estremità sollecitata (// fibre)
Da bordo scarico (_ fibre)
Da bordo sollecitato (_ fibre)

=
a1 = 96 mm
a2 = 40 mm
a3c = 80 mm
a3t = 120 mm
_ fibre) a4c = 40 mm
_ fibre) a4t = 40 mm

DISTANZE MINIME elemento 2 (legno):

Parallela alle fibre
Perpendicolare alle fibre
Da estremità scarica (// fibre)
Da estremità sollecitata (// fibre)
Da bordo scarico (_ fibre)
Da bordo sollecitato (_ fibre)

=
a1 = 96 mm
a2 = 40 mm
a3c = 80 mm
a3t = 120 mm
_ fibre) a4c = 40 mm
_ fibre) a4t = 40 mm

VALORI DI RESISTENZA:

Numero sezioni di taglio
Contributo a trazione pesato con Johansen
Resistenza caratteristica a taglio tipo a
Resistenza caratteristica a taglio tipo b

=
nT = 1
Fax,Rk/4 = 0.47 KN
Fv,Rk = 24.05 KN
Fv,Rk = 13.36 KN

Resistenza caratteristica a taglio tipo c
 Resistenza caratteristica a taglio tipo d
 Resistenza caratteristica a taglio tipo e
 Resistenza caratteristica a taglio tipo f
 Resistenza caratteristica a taglio viti per piano di taglio
 Resistenza caratteristica a taglio viti
 Resistenza design a taglio viti per piano di taglio
 Resistenza design a taglio viti
 Resistenza design a taglio del singolo viti con numero efficace e contributo a trazione
 Resistenza design a taglio dell'intero collegamento
 Numero efficace a estrazione
 Resistenza caratteristica a estrazione del singolo connettore
 Resistenza caratteristica a estrazione dell'intero collegamento
 Resistenza design a estrazione dell'intero collegamento
 Scorrimento connettore per piano di taglio
 Verifica Taglio di progetto

Resistenza design a taglio dell'intero collegamento
Resistenza design a estrazione dell'intero collegamento
Scorrimento connettore per piano di taglio
Verifica Taglio di progetto

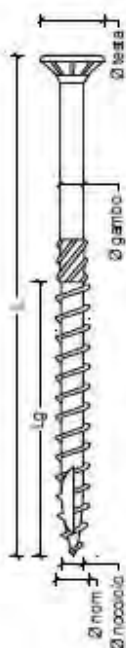
Fv,Rk = 8.75 KN
 Fv,Rk = 9.01 KN
 Fv,Rk = 5.36 KN
 Fv,Rk = 3.14 KN
 Fv,Rk = 3.14 KN
 Fc,Rk = 3.14 KN
 Fv,Rd = 1.88 KN
 Fc,Rd = 1.88 KN
 Fv,Rd = 1.88 KN
 Fv,rd,tot = 16.93 KN
 nef(e) = 7.22
 Faxk,ef = 1.89 KN
 Faxktot,ef = 13.67 KN
 Faxdtot,ef = 8.20 KN
 Kser = 2.58 KN/mm
 = 0.89 VERIFICATO

Fv,rd,tot = 16.93 KN
 Faxdtot,ef = 8.20 KN
 Kser = 2.58 KN/mm
 = 0.89 VERIFICATO

CAPACITA' PORTANTE A TAGLIO VITE HBS

UNIONI LEGNO-LEGNO CON UN PIANO DI TAGLIO
LEGNO DI CONIFERA

rothoengineer



Normative: EN 1995-1-1:2009
NT 14-01-2008

Scelta della vite

HBS 06,0

Caratteristiche geometriche

\varnothing nominale	6.00	mm
\varnothing gambo	4.30	mm
\varnothing nocciolo	3.95	mm
\varnothing testa	12.00	mm

Tipo di legno

LEGNO LAMELLARE GL 24 h

$\rho_k = 380$ kg/m³

Spessore degli elementi

$t_1 = 200$ mm
 $t_{2,min} = 48$ mm (profondità minima di penetrazione)
 $L_{VITE,min} = 248$ mm (lunghezza minima della vite)

Lunghezza della vite

$L = 300$ mm lunghezza della vite

$L_s = 75$ mm lunghezza del filetto *

* Per esigenze costruttive si consiglia che il filetto sia interamente inserito nell'elemento 2.

Angolo della forza rispetto alla fibra

$\alpha_1 = 0^\circ$ angolo tra forza e fibra nell'elemento 1
 $\alpha_2 = 0^\circ$ angolo tra forza e fibra nell'elemento 2

Resistenza caratteristica a taglio per ogni mezzo di unione

$F_{v,Rk} = 2.44$ kN EN 1995-1-1:2009

Coefficienti e parametri di calcolo

$k_{mod} = 0.9$
 $\gamma_{M,connessione} = 1.5$ (NTC 2008: $\gamma_{M,connessione} = 1.5$)

Resistenza di progetto a taglio per ogni mezzo di unione

$F_{v,Rd} = 1.46$ kN

NOTA: le viti poste in opera non possono essere riutilizzate a causa dello sforzo torsionale impresso. Si raccomanda l'utilizzo di almeno due mezzi di unione per ogni giunzione



Tipologia:	Unione legno-legno	Normativa:	NTC 2008 (integrato con UNI EN 1995 : 2009)
Piani di taglio:	¶	Connettore:	VITI HBS

Parametri geometrici dei connettori

rothoengineer

HBS Ø6,0			tipologia connettore scelto
$\varnothing_{\text{nominale}}$	6.00	mm	diametro esterno del filetto
$\varnothing_{\text{noccio}}$	3.95	mm	diametro del nocciolo (diametro interno del filetto)
$\varnothing_{\text{gambo}}$	4.30	mm	diametro del gambo
$\varnothing_{\text{testa}}$	12.00	mm	diametro della testa
$\varnothing_{\text{calcolo}}$	4.35	mm	diametro di calcolo (\varnothing_{eff})
L	300.0	mm	lunghezza del connettore
L_{eff}	75.0	mm	lunghezza del filetto

Parametri meccanici dei connettori

(secondo EN 14592)

M_{yk}	12300	Nmm	momento caratteristico di snervamento
$R_{t,yk}$	11.10	kN	resistenza caratteristica a trazione del filo di acciaio
f_{yk}	11.60	kN	parametro caratteristico di resistenza all'estrazione del filetto
ρ_s	420	kg/m ²	densità caratteristica associata al parametro di estrazione del filetto
$f_{h,yk}$	12.00	kN	parametro caratteristico di resistenza a penetrazione della testa
ρ_s	440	kg/m ²	densità caratteristica associata al parametro di penetrazione della testa

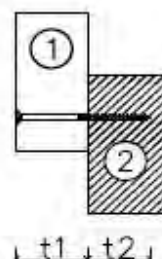
Considerando le sue caratteristiche geometriche, il connettore in fase di calcolo è assimilabile a: chiodo

Legno 1: elemento laterale

t_1	200.00	mm	spessore dell'elemento 1
Tipo di legno	LEGNO LAMELLARE GL 24 h		
ρ_k	380.00	kg/m ³	densità caratteristica del legno

Legno 2: elemento laterale

t_2	100	mm	profondità di penetrazione
Tipo di legno	LEGNO LAMELLARE GL 24 h		
ρ_k	380.00	kg/m ³	densità caratteristica del legno



Resistenza a rifollamento

$f_{h,0,1}$	29.81	Mpa	resistenza caratteristica a rifollamento nell'elemento 1 ($\alpha = 0^\circ$)
α_1	0.00	°	angolo tra sforzo e fibre nell'elemento laterale 1
k_{90}	-		
$f_{h,0,1,s}$	29.81	Mpa	resistenza caratteristica a rifollamento nell'elemento 1 ($\alpha \neq 0^\circ$) - Viti come Chiodi
$f_{h,0,2}$	29.81	Mpa	resistenza caratteristica a rifollamento nell'elemento 2 ($\alpha = 0^\circ$)
α_2	0.00	°	angolo tra sforzo e fibre nell'elemento laterale 2
k_{90}	-		
$f_{h,0,2,s}$	29.81	Mpa	resistenza caratteristica a rifollamento nell'elemento 2 ($\alpha \neq 0^\circ$) - Viti come Chiodi
β	1.00	$f_{h,2,s} / f_{h,1,s}$	rapporto fra le resistenze caratteristiche a rifollamento

DISTANZE MINIME PREVISTE DALLA NORMATIVA



VITI COME CHIODI CON PREFORO	Spaziature e distanze da bordi / estremità	Angolo
$a_{1,MIN}$	$(4+1 \cos\alpha)d$	$0^\circ \leq \alpha \leq 360^\circ$
$a_{2,MIN}$	$(3+1 \sin\alpha)d$	$0^\circ \leq \alpha \leq 360^\circ$
$a_{3,MIN}$	$(7+5 \cos\alpha)d$	$-90^\circ \leq \alpha \leq 90^\circ$
$a_{3,C,MIN}$	7 d	$90^\circ \leq \alpha \leq 150^\circ$ $150^\circ \leq \alpha \leq 210^\circ$ $210^\circ \leq \alpha \leq 270^\circ$
$a_{4,MIN}$	$(3+4 \sin\alpha)d$	$0^\circ \leq \alpha \leq 180^\circ$
$a_{4,C,MIN}$	3 d	$180^\circ \leq \alpha \leq 360^\circ$

Le spaziature e distanze di seguito riportate sono le minime da adottare fra quelle previste per i due elementi lignei, dipendenti dall'angolo fra forza e fibratura (rispettivamente α_1 ed α_2).

Spaziature e distanze minime tra bordi/estremità	[mm]
$a_{1,MIN}$ parallela alla fibratura	30.00
$a_{2,MIN}$ ortogonale alla fibratura	18.00
$a_{3,MIN}$ estremità sollecitata	72.00
$a_{3,C,MIN}$ estremità scarica	42.00
$a_{4,MIN}$ bordo sollecitato	18.00
$a_{4,C,MIN}$ bordo scarico	18.00

Connessione con più mezzi di unione

Circolare NTC 2008 - C 4.4.9

La valutazione della capacità portante di collegamenti con mezzi di unione multipli, tutti dello stesso tipo e dimensione, terrà conto della ridotta efficienza dovuta alla presenza di più mezzi di unione.

Per viti avente diametro nominale minore o uguale a 6 mm la valutazione del numero efficace segue le regole previste per i chiodi (si veda il p.to 8.3.1 - EN 1995-1-1:2009).

Per viti avente diametro nominale maggiore a 6 mm la valutazione del numero efficace segue le regole previste per i bulloni (si veda il p.to 8.5.1 - EN 1995-1-1:2009).

Resistenza assiale della vite (effetto cavo)

$$R_{ax,Rk} = 1.54 \quad \text{KN}$$

resistenza caratteristica a trazione della vite

$$R_{ax,Rk} = \min \{ R_{ax,Rk}, R_{ax,Rk}, R_{ax,Rk} \}$$

Resistenza a trazione dell'acciaio

$$R_{t,Rk} = 11.10 \quad \text{KN}$$

resistenza caratteristica a trazione della vite (filo di acciaio)

Resistenza ad estrazione del filetto nell'elemento 2

$$R_{ax,Rk} = 4.82 \quad \text{KN}$$

resistenza caratteristica ad estrazione del filetto

$$R_{ax,Rk} = n_{ef} \cdot d \cdot l_{ef} \cdot f_{ax,k} / (1.2 \cos(\alpha_{ef})^2 + \sin(\alpha_{ef})^2) \cdot (\rho_k / \rho_s)^{2.5}$$

diametro esterno del filetto

parametro caratteristico di resistenza ad estrazione del filetto

densità caratteristica associata al parametro di estrazione del filetto

numero efficace di viti (si considera $n_{ef} = 1$)

lunghezza di penetrazione della parte filettata nell'elemento 2

angolo tra la vite e la fibra (si ipotizza essere 90°)

densità caratteristica del legno

Resistenza a penetrazione della testa nell'elemento 1

$$R_{ax,Rk} = 1.54 \quad \text{KN}$$

resistenza caratteristica a penetrazione della testa

$$R_{ax,Rk} = n_{ef} \cdot f_{test,k} \cdot (\rho_k / \rho_s)^2 \cdot d_h^2$$

diametro della testa

parametro caratteristico di resistenza a penetrazione della testa

densità caratteristica associata al parametro di penetrazione della testa

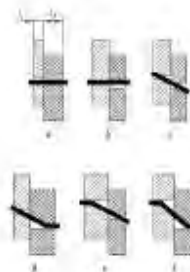
numero efficace di viti (si considera $n_{ef} = 1$)

densità caratteristica del legno

Resistenza a taglio della vite

La capacità portante di progetto per ciascun mezzo di unione ad un piano di taglio è il valore minimo tra i seguenti:

$$F_{v,Rk} = \min \left\{ \begin{array}{l} \frac{f_{h,1,k} \cdot t_1 \cdot d}{f_{h,2,k} \cdot t_2 \cdot d} \quad (a) \\ \frac{f_{h,2,k} \cdot t_2 \cdot d}{1 + \beta} \left[\beta + 2 \beta^2 \left(1 + \frac{f_{h,1,k}}{f_{h,2,k}} \left(\frac{t_1}{t_2} \right)^2 \right) + \beta^3 \left(\frac{t_1}{t_2} \right)^3 \right] - \beta \right] + \frac{F_{ax,Rk}}{4} \quad (b) \\ 1.05 \frac{f_{h,1,k} \cdot t_1 \cdot d}{2 + \beta} \left[\sqrt{2 \beta (1 + \beta) + \frac{4 \beta (2 + \beta) M_{v,Rk}}{f_{h,1,k} \cdot d \cdot t_1^2}} - \beta \right] + \frac{F_{ax,Rk}}{4} \quad (c) \\ 1.05 \frac{f_{h,1,k} \cdot t_2 \cdot d}{1 + 2 \beta} \left[\sqrt{2 \beta^2 (1 + \beta) + \frac{4 \beta (1 + 2 \beta) M_{v,Rk}}{f_{h,1,k} \cdot d \cdot t_2^2}} - \beta \right] + \frac{F_{ax,Rk}}{4} \quad (d) \\ 1.15 \sqrt{\frac{2 \beta}{1 + \beta}} \sqrt{2 M_{v,Rk} f_{h,1,k} d} + \frac{F_{ax,Rk}}{4} \quad (e) \end{array} \right.$$



$$F_{v,Rk} = \min \left\{ \begin{array}{ll} 25.90 & = 25.90 \quad \text{kN} \quad (a) \\ 12.95 & = 12.95 \quad \text{kN} \quad (b) \\ 8.80 + 0.38 & = 9.18 \quad \text{kN} \quad (c) \\ 9.13 + 0.38 & = 9.51 \quad \text{kN} \quad (d) \\ 4.66 + 0.38 & = 5.05 \quad \text{kN} \quad (e) \\ 2.05 + 0.38 & = 2.44 \quad \text{kN} \quad (f) \end{array} \right.$$

$$F_{v,Rk, \text{connettore}} = 2.44 \quad \text{KN}$$

resistenza caratteristica a taglio del connettore

$$k_{mod} = 0.90$$

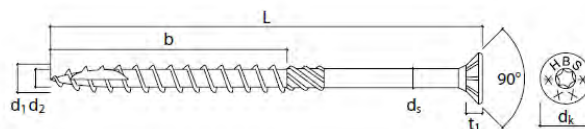
$$\gamma_{M, \text{connettore}} = 1.50$$

$$F_{v,Rd, \text{connettore}} = 1.46 \quad \text{KN}$$

resistenza di progetto a taglio del connettore

HBS - DATI TECNICI

Diametro nominale	d_1 [mm]	3,00	3,50	4,00	4,50	5,00	6,00	8,00	10,00	12,00
Diametro testa	d_k [mm]	6,00	7,00	8,00	9,00	10,00	12,00	14,50	18,25	20,75
Diametro nocciolo	d_2 [mm]	2,00	2,25	2,55	2,80	3,40	3,95	5,40	6,40	6,80
Diametro gambo	d_s [mm]	2,16	2,45	2,75	3,15	3,65	4,30	5,80	7,00	8,00
Spessore testa	t_1 [mm]	2,10	2,20	2,80	2,80	3,10	4,50	4,50	5,80	7,20
Torx	TX	10	15	20	20	25	30	40	40	50
Diametro preforo	d_v [mm]	2,0	2,0	2,5	3,0	3,0	4,0	5,0	6,0	7,0



HBS Ø 6-10 mm - DATI TECNICI


				ESTRAZIONE FILETTO ⁽¹⁾		PENETRAZIONE TESTA ⁽²⁾		TAGLIO ⁽³⁾		
d_1 [mm]	L [mm]	b [mm]	A [mm]	$N_{ax,nt}$ ammissibile [kN]	$R_{ax,k}$ caratteristico [kN]	$N_{kopf,nt}$ ammissibile [kN]	$R_{ax,k}^{(4)}$ caratteristico [kN]	$V_{cut}^{(5)}$ ammissibile [kN]	$R_{y,ax}^{(6)}$ caratteristico [kN]	$R_{y,ax}^{(7)}$ caratteristico [kN]
6,0	40	35	8	1,05	2,62	0,72	1,61	0,19	1,04	1,04
	50	45	15	1,35	3,37	0,72	1,61	0,36	1,64	1,64
	60	30	30	0,90	2,25	0,72	1,61	0,61	2,01	2,01
	70	40	30	1,20	3,00	0,72	1,61	0,61	2,08	2,08
	80	40	40	1,20	3,00	0,72	1,61	0,61	2,21	2,21
	90	50	40	1,50	3,75	0,72	1,61	0,61	2,21	2,21
	100	50	50	1,50	3,75	0,72	1,61	0,61	2,21	2,21
	110	60	50	1,80	4,50	0,72	1,61	0,61	2,21	2,21
	120	60	60	1,80	4,50	0,72	1,61	0,61	2,21	2,21
	130	60	70	1,80	4,50	0,72	1,61	0,61	2,21	2,21
	140	75	65	2,25	5,62	0,72	1,61	0,61	2,21	2,21
	150	75	75	2,25	5,62	0,72	1,61	0,61	2,21	2,21
	160	75	85	2,25	5,62	0,72	1,61	0,61	2,21	2,21
	180	75	105	2,25	5,62	0,72	1,61	0,61	2,21	2,21
	200	75	125	2,25	5,62	0,72	1,61	0,61	2,21	2,21
	220	75	145	2,25	5,62	0,72	1,61	0,61	2,21	2,21
	240	75	165	2,25	5,62	0,72	1,61	0,61	2,21	2,21
	260	75	185	2,25	5,62	0,72	1,61	0,61	2,21	2,21
	280	75	205	2,25	5,62	0,72	1,61	0,61	2,21	2,21
	300	75	225	2,25	5,62	0,72	1,61	0,61	2,21	2,21

Verifica collegamento con sottostante solaio mediante fissaggi meccanici

Impresa:	Pagina:	1
Progettista:	Progetto:	
Indirizzo:	Contratto Nr.:	
Telefono I Fax:	Data:	31/03/2015
E-mail:		

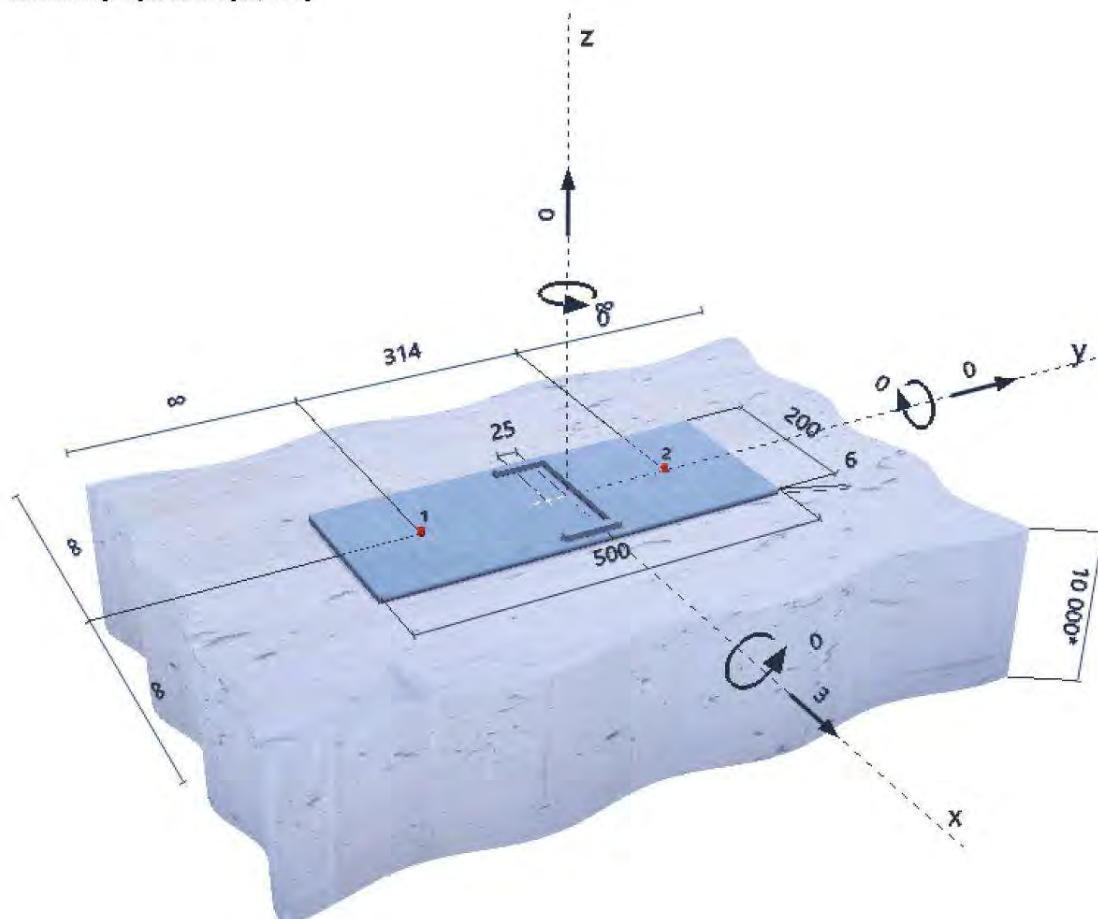
Commenti del progettista:

1 Dati da inserire

Tipo e dimensione dell'ancorante:	HST-R M8	
Profondità di posa effettiva:	$h_{ef} = 47 \text{ mm}$, $h_{nom} = 55 \text{ mm}$	
Materiale:	A4	
Certificazione No.:	ETA 98/0001	
Emesso Valido:	08/05/2013 20/02/2018	
Verifica:	metodo di calcolo ETAG (Nr. 001 Allegato C/2010)	
Fissaggio distanziato:	$e_b = 0 \text{ mm}$ (Senza distanziamento); $t = 6 \text{ mm}$	
Piastra d'ancoraggio:	$l_x \times l_y \times t = 200 \text{ mm} \times 500 \text{ mm} \times 6 \text{ mm}$; (Spessore della piastra raccomandato: non calcolato)	
Profilo:	Profilo a U; $(L \times W \times T \times FT) = 180 \text{ mm} \times 70 \text{ mm} \times 8 \text{ mm} \times 11 \text{ mm}$	
Materiale base:	Fessurato Calcestruzzo, C25/30, $f_{cc} = 30.00 \text{ N/mm}^2$; $h = 10000 \text{ mm}$	
Armatura:	nessuna armatura o interasse tra le armature $\geq 150 \text{ mm}$ (qualunque \varnothing) o $\geq 100 \text{ mm}$ ($\varnothing \leq 10 \text{ mm}$) senza armatura di bordo longitudinale	



Geometria [mm] & Carichi [kN, kNm]



Impresa:
Progettista:
Indirizzo:
Telefono / Fax:
E-mail:

Pagina:
Progetto:
Contratto Nr.:
Data:

2
31/03/2015

2 Condizione di carico/Carichi risultanti sull'ancorante

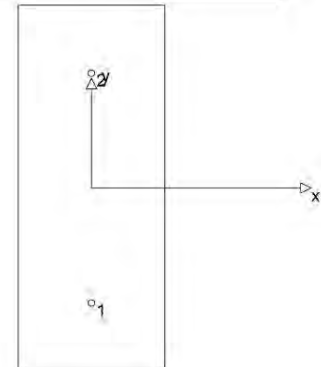
Condizione di carico: Carichi di progetto

Carichi sull'ancorante [kN]

Trazione: (+ Trazione, - Compressione)

Ancorante	Trazione	Taglio	Taglio in dir. x	Taglio in dir. y
1	0.000	1.261	1.261	0.000
2	0.000	1.739	1.739	0.000

Compressione max. nel calcestruzzo: - [%]
Max. sforzo di compressione nel calcestruzzo: - [N/mm²]
risultante delle forze di trazione nel (x/y)=(0/0): 0.000 [kN]
risultante delle forze di compressione (x/y)=(0/0): 0.000 [kN]



3 Carico di trazione (ETAG, Allegato C, Sezione 5.2.2)

	carico [kN]	Resistenza [kN]	Utilizzo β_N [%]	Stato
Rottura dell'acciaio*	N/A	N/A	N/A	N/A
Rottura per sfilamento*	N/A	N/A	N/A	N/A
Rottura conica del calcestruzzo**	N/A	N/A	N/A	N/A
Fessurazione**	N/A	N/A	N/A	N/A

*ancorante più sollecitato **gruppo di ancoranti (ancoranti sollecitati)

Impresa:
Progettista:
Indirizzo:
Telefono / Fax:
E-mail:

Pagina: 3
Progetto:
Contratto Nr.:
Data: 31/03/2015

4 Carico di taglio (ETAG, Allegato C, Sezione 5.2.3)

	carico [kN]	Resistenza [kN]	Utilizzo β_v [%]	Stato
Rottura dell'acciaio (senza braccio di leva)*	1.739	10.400	17	OK
Rottura dell'acciaio (con braccio di leva)*	N/A	N/A	N/A	N/A
Rottura per pryout**	3.000	29.231	11	OK
Rottura del bordo del calcestruzzo in direzione **	N/A	N/A	N/A	N/A

*ancorante più sollecitato **gruppo di ancoranti (ancoranti specifici)

4.1 Rottura dell'acciaio (senza braccio di leva)

$V_{Rk,s}$ [kN]	$\gamma_{M,s}$	$V_{Rd,s}$ [kN]	V_{Sd} [kN]
13.000	1.250	10.400	1.739

4.2 Rottura per pryout

$A_{c,N}$ [mm ²]	$A_{c,N}^0$ [mm ²]	$c_{cr,N}$ [mm]	$s_{cr,N}$ [mm]	k-factor		
39762	19881	71	141	2.000		
$e_{c1,v}$ [mm]	$1/f_{act,N}$	$e_{c2,v}$ [mm]	$1/f_{act2,N}$	$1/f_{s,N}$	$1/f_{re,N}$	$N_{Rk,c}^0$ [kN]
0	1.000	25	0.863	1.000	1.000	12.707
$\gamma_{M,c,p}$	$V_{Rd,c1}$ [kN]	V_{Sd} [kN]				
1.500	29.231	3.000				

5 Spostamento (ancorante più sollecitato)

Carichi di breve periodo:

N_{Sk}	=	0.000 [kN]	δ_N	=	0.000 [mm]
V_{Sk}	=	1.288 [kN]	δ_V	=	0.278 [mm]
			δ_{NV}	=	0.278 [mm]

Carichi di lungo periodo:

N_{Sk}	=	0.000 [kN]	δ_N	=	0.000 [mm]
V_{Sk}	=	1.288 [kN]	δ_V	=	0.418 [mm]
			δ_{NV}	=	0.418 [mm]

Commenti: Gli spostamenti a trazione sono validi con metà della coppia di serraggio necessaria all'installazione per non fessurare calcestruzzo! Gli spostamenti a taglio sono validi senza attrito tra il calcestruzzo e la piastra d'ancoraggio! Lo spazio dovuto alla tolleranza tra il foro perforato e il foro passante non sono inclusi in questo calcolo!

Gli spostamenti ammissibili dipendono dalla struttura fissata e devono essere definiti dal progettista!

6 Attenzione

- Si assume una piastra di ancoraggio sufficientemente rigida in modo che non risulti deformabile sotto l'azione di carichi.
- La verifica del trasferimento dei carichi nel materiale base è necessaria in accordo all'ETAG (2010) sezione 7!
- Il calcolo è valido solo se le dimensioni dei fori sulla piastra non superano i valori indicati nella tabella 4.1 dell'ETAG 001, Annex C! Per diametri dei fori superiori vedere il capitolo 1.1 dell'ETAG 001, Annex C!
- La lista accessori inclusa in questo report di calcolo è da ritenersi solo come informativa dell'utente. In ogni caso, le istruzioni d'uso fornite con il prodotto dovranno essere rispettate per garantire una corretta installazione.

L'ancoraggio risulta verificato!

Impresa:
Progettista:
Indirizzo:
Telefono I Fax: |
E-mail:

Pagina: 1
Progetto:
Contratto Nr.:
Data: 31/03/2015

Commenti del progettista:

1 Dati da inserire

Tipo e dimensione dell'ancorante: HST M10

Profondità di posa effettiva: $h_{ef} = 60 \text{ mm}$, $h_{nom} = 69 \text{ mm}$

Materiale:

Certificazione No.: ETA 98/0001

Emesso l Valido: 08/05/2013 | 20/02/2018

Verifica: metodo di calcolo ETAG (Nr. 001 Allegato C/2010)

Fissaggio distanziato: $e_o = 0 \text{ mm}$ (Senza distanziamento); $t = 6 \text{ mm}$

Piastra d'ancoraggio: $l_x \times l_y \times t = 200 \text{ mm} \times 500 \text{ mm} \times 6 \text{ mm}$; (Spessore della piastra raccomandato: non calcolato)

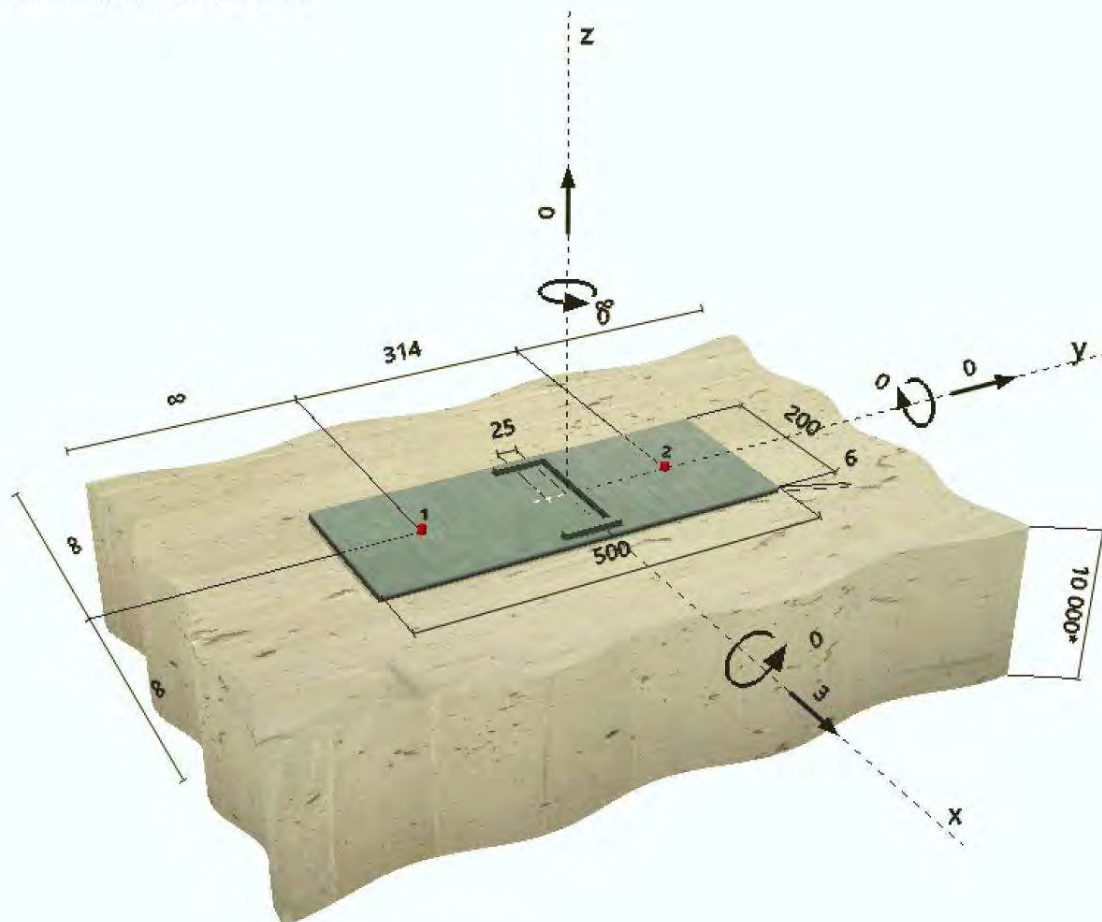
Profilo: Profilo a U; (L x W x T x FT) = 180 mm x 70 mm x 8 mm x 11 mm

Materiale base: Fessurato Calcestruzzo, C25/30, $f_{cc} = 30.00 \text{ N/mm}^2$; $h = 10000 \text{ mm}$

Armatura: nessuna armatura o interasse tra le armature $\geq 150 \text{ mm}$ (qualunque \emptyset) o $\geq 100 \text{ mm}$ ($\emptyset \leq 10 \text{ mm}$)
senza armatura di bordo longitudinale



Geometria [mm] & Carichi [kN, kNm]



Impresa:
Progettista:
Indirizzo:
Telefono I Fax:
E-mail:

Pagina: 2
Progetto:
Contratto Nr.:
Data: 31/03/2015

2 Condizione di carico/Carichi risultanti sull'ancorante

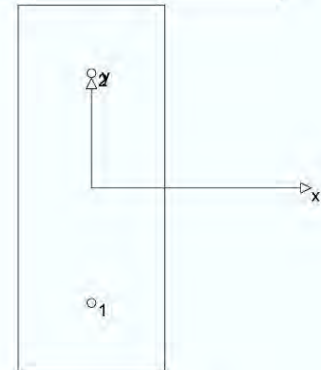
Condizione di carico: Carichi di progetto

Carichi sull'ancorante [kN]

Trazione: (+ Trazione, - Compressione)

Ancorante	Trazione	Taglio	Taglio in dir. x	Taglio in dir. y
1	0.000	1.261	1.261	0.000
2	0.000	1.739	1.739	0.000

Compressione max. nel calcestruzzo: - [%]
Max. sforzo di compressione nel calcestruzzo: - [N/mm²]
risultante delle forze di trazione nel (x/y)=(0/0): 0.000 [kN]
risultante delle forze di compressione (x/y)=(0/0): 0.000 [kN]



3 Carico di trazione (ETAG, Allegato C, Sezione 5.2.2)

	carico [kN]	Resistenza [kN]	Utilizzo β_N [%]	Stato
Rottura dell'acciaio*	N/A	N/A	N/A	N/A
Rottura per sfilamento*	N/A	N/A	N/A	N/A
Rottura conica del calcestruzzo**	N/A	N/A	N/A	N/A
Fessurazione**	N/A	N/A	N/A	N/A

*ancorante più sollecitato **gruppo di ancoranti (ancoranti sollecitati)

Impresa:
Progettista:
Indirizzo:
Telefono / Fax:
E-mail:

Pagina: 3
Progetto:
Contratto Nr.:
Data: 31/03/2015

4 Carico di taglio (ETAG, Allegato C, Sezione 5.2.3)

	carico [kN]	Resistenza [kN]	Utilizzo β_v [%]	Stato
Rottura dell'acciaio (senza braccio di leva)*	1.739	18.800	10	OK
Rottura dell'acciaio (con braccio di leva)*	N/A	N/A	N/A	N/A
Rottura per pryout**	3.000	42.162	8	OK
Rottura del bordo del calcestruzzo in direzione **	N/A	N/A	N/A	N/A

*ancorante più sollecitato **gruppo di ancoranti (ancoranti specifici)

4.1 Rottura dell'acciaio (senza braccio di leva)

$V_{Rk,s}$ [kN]	$\gamma_{M,s}$	$V_{Rd,s}$ [kN]	V_{sd} [kN]
23.500	1.250	18.800	1.739

4.2 Rottura per pryout

$A_{c,N}$ [mm ²]	$A_{c,N}^0$ [mm ²]	$c_{cr,N}$ [mm]	$s_{cr,N}$ [mm]	k-factor		
64800	32400	90	180	2.000		
$e_{c1,v}$ [mm]	$l/_{ec1,N}$	$e_{c2,v}$ [mm]	$l/_{ec2,N}$	$l/_{s,N}$	$l/_{re,N}$	$N_{Rk,c}^0$ [kN]
0	1.000	25	0.863	1.000	1.000	18.328
$\gamma_{M,c,p}$	$V_{Rd,c1}$ [kN]	V_{sd} [kN]				
1.500	42.162	3.000				

5 Spostamento (ancorante più sollecitato)

Carichi di breve periodo:

N_{Sk}	= 0.000 [kN]	δ_N	= 0.000 [mm]
V_{Sk}	= 1.288 [kN]	δ_V	= 0.240 [mm]
		δ_{NV}	= 0.240 [mm]

Carichi di lungo periodo:

N_{Sk}	= 0.000 [kN]	δ_N	= 0.000 [mm]
V_{Sk}	= 1.288 [kN]	δ_V	= 0.356 [mm]
		δ_{NV}	= 0.356 [mm]

Commenti: Gli spostamenti a trazione sono validi con metà della coppia di serraggio necessaria all'installazione per non fessurare calcestruzzo! Gli spostamenti a taglio sono validi senza attrito tra il calcestruzzo e la piastra d'ancoraggio! Lo spazio dovuto alla tolleranza tra il foro perforato e il foro passante non sono inclusi in questo calcolo!

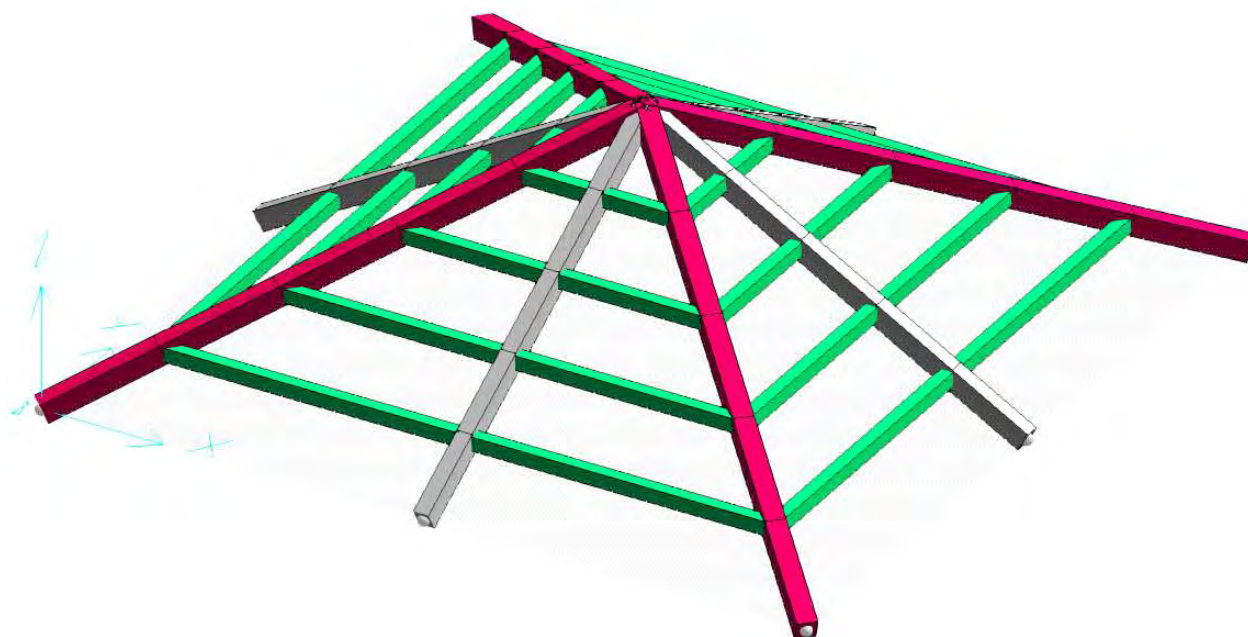
Gli spostamenti ammissibili dipendono dalla struttura fissata e devono essere definiti dal progettista!

6 Attenzione

- Si assume una piastra di ancoraggio sufficientemente rigida in modo che non risulti deformabile sotto l'azione di carichi.
- La verifica del trasferimento dei carichi nel materiale base è necessaria in accordo all'ETAG (2010) sezione 7!
- Il calcolo è valido solo se le dimensioni dei fori sulla piastra non superano i valori indicati nella tabella 4.1 dell'ETAG 001, Annex C! Per diametri dei fori superiori vedere il capitolo 1.1 dell'ETAG 001, Annex C!
- La lista accessori inclusa in questo report di calcolo è da ritenersi solo come informativa dell'utente. In ogni caso, le istruzioni d'uso fornite con il prodotto dovranno essere rispettate per garantire una corretta installazione.

L'ancoraggio risulta verificato!

Copertura B – corpo di fabbrica centrale



Modello di calcolo della copertura B

DATI ANALISI SISMICA:

ANALISI DINAMICA

lavoro : \13119B

PARAMETRI DI CALCOLO:

Calcolo secondo NTC 2008
Modello generale
Assi di vibrazione: X Y
Somma quadratica semplice (SRSS)

DATI PROGETTO

Edificio sito in località FAULE

Categoria del suolo di fondazione = C

Coeff. di amplificazione stratigrafica $S_s = 1.500$

Coeff. di amplificazione topografica $S_T = 1.000$

$S = 1.500$

Vita nominale dell'opera $V_N = 50$ anni

Coefficiente d'uso $C_U = 1.5$

Periodo di riferimento $V_R = 75.0$

PVR : probabilità di superamento in $V_R = 10 \%$

Tempo di ritorno $= 712$

Coeff. di smorzamento viscoso $= 5.0$

Valori risultanti per :

$a_g = 0.889$ [g/10]

$F_0 = 2.648$

$T_C^* = 0.279$

Edificio con struttura in cem. armato :

Fattore di struttura $q = 2.640$

$q = q_0 * K_R * K_W$ dove :

$q_0 = 3.00 * 1.1$ (A telaio di un piano) (Classe di duttilità "B" (bassa))

$K_R = 0.8$ (Edifici non regolari in altezza)

$K_W = 1.00$

Rapporto spettro di esercizio / spettro di progetto $= 1.209$

CONDIZIONI DI RIFERIMENTO	COEFFICIENTE	PESO RISULTANTE
1.	1.000	[dan] 4207.3
2.	1.000	21870.1

*** TABELLA AUTOVETTORI ***

n	PERIODO [sec]	MASSA ATTIVATA %X %Y %Z	COEFFICIENTI DI CORRELAZIONE n+1 n+2 n+3 n+4 n+5 n+6 n+7				
1	0.354758	0.028 0.010 0.000	0.000 0.000				
2	0.208116	1.690 92.973 0.000	0.000				
3	0.207754	93.190 1.681 0.000					
MASSA TOTALE		94.907 94.664 0.000					

DESCRIZIONE CASI DI CARICO:

NOME	DESCRIZIONE	VERIFICA	TIPO	CONDIZ. INSERITE			CASI INSERITI	
				Num.	Coeff.	Segno	Num.	Coeff.
1	SLU SENZA SISMA	S.L.U.	somma	1 2 3	1.300 1.500 1.500	+ + +		
2	SISMAX SLU	nessuna	somma	4 6 10	1.000 1.000 1.000	quadr. quadr. ±		
3	SISMAY SLU	nessuna	somma	5 7 11	1.000 1.000 1.000	quadr. quadr. ±		
4	SLU con SISMAX PRINC	S.L.U.	somma	1 2	1.000 1.000	+ +	2 3	1.000 0.300
5	SLU con SISMAY PRINC	S.L.U.	somma	1 2	1.000 1.000	+ +	3 2	1.000 0.300
6	SLD con SISMAX PRINC	S.L.Danno	somma	1 2	1.000 1.000	+ +	2 3	1.209 0.363
7	SLD con SISMAY PRINC	S.L.Danno	somma	1 2	1.000 1.000	+ +	3 2	1.209 0.363
8	SLU FON con SISMAX P	SLU_FON	somma	1 2	1.000 1.000	+ +	2 3	1.100 0.330
9	SLU FON con SISMAY P	SLU_FON	somma	1 2	1.000 1.000	+ +	3 2	1.100 0.330
10	Rara	Rara	somma	1 2 3	1.000 1.000 1.000	+ + +		
11	Frequente	Freq.	somma	1 2 3	1.000 1.000 0.200	+ + +		
12	Quasi Perm	QuasiPerm.	somma	1 2	1.000 1.000	+ +		

SOLLECITAZIONI ASTE:

SOLLECITAZIONI ASTE

CASO DI CARICO : 1 SLU SENZA SISMA

COMBINAZIONE

N. 3 CONDIZIONI ANALISI STATICA

1	Peso_proprio_____	+	1.30
2	Permanente_____	+	1.50
3	Neve_(<1000m_slm)___	+	1.50

1) +1.30*c001 +1.50*c002 +1.50*c003

Unità di misura: Prog e frecce [cm];NORM,TYY,TZZ [daN]
MZZ,MYY,TORS [daNcm]

Asta	17	nod	14	30		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	-3483.9	1215.0	29.0	633.7	6998.4	-107297.5
244.	-3483.9	57.2	29.0	633.7	-60.6	51739.8
487.	-3483.9	-1303.5	29.0	633.7	-7119.6	-95913.9

Asta	18	nod	17	31		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	-4958.9	995.2	90.3	-17.9	16614.6	-80643.4
184.	-4958.9	160.9	90.3	-17.9	34.9	28356.5
367.	-4958.9	-863.1	90.3	-17.9	-16544.8	-33181.6

Asta	20	nod	21	33		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	-3764.0	980.9	468.2	-1832.8	29438.0	-53064.1
64.	-3764.0	757.2	468.2	-1832.8	-315.3	2643.6
127.	-3764.0	442.7	468.2	-1832.8	-30068.6	41250.7

Asta	41	nod	3	14		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	-12847.1	-108.2	3.7	-449.7	175.2	100356.6
92.	-12791.1	-246.7	3.7	-449.7	-159.1	85257.2
183.	-12674.5	-535.2	3.7	-449.7	-493.3	50620.8

Asta	42	nod	14	17		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	-7233.6	-952.5	4.8	-533.9	-414.0	203209.9
92.	-7177.7	-1091.0	4.8	-533.9	-857.1	110858.3
183.	-7061.3	-1379.4	4.8	-533.9	-1300.2	-1026.4

Asta	43	nod	17	18		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	59.6	-647.8	-5.8	-82.6	-1404.8	112536.4
92.	115.6	-786.3	-5.8	-82.6	-877.1	48053.7
183.	232.2	-1074.7	-5.8	-82.6	-349.3	-35966.1

Asta	44	nod	18	21		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	6838.9	-253.2	-16.3	15.8	-670.7	53746.9
92.	6894.8	-391.7	-16.3	15.8	819.9	25375.2
183.	7011.4	-680.2	-16.3	15.8	2310.4	-22533.6

Asta	45	nod	21	2		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	12112.0	-683.1	11.3	1919.0	1714.9	48514.2
97.	12173.1	-834.5	11.3	1919.0	618.3	-23676.4
194.	12302.2	-1154.0	11.3	1919.0	-478.4	-118688.9

Asta	51	nod	2	20		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	12158.8	901.9	23.1	-2087.2	-908.7	-125738.5
97.	12080.7	708.6	23.1	-2087.2	-3148.8	-48393.7
194.	12036.5	599.3	23.1	-2087.2	-5388.9	14289.4

Asta	52	nod	20	19		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	7036.2	793.9	1.4	-4703.7	-4359.1	-53934.8
92.	6965.1	617.9	1.4	-4703.7	-4482.7	10097.7
183.	6924.2	516.9	1.4	-4703.7	-4606.2	61454.1

Asta	53	nod	19	16		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	200.5	1116.3	-7.3	3323.6	-8488.6	-40644.6
92.	83.9	827.9	-7.3	3323.6	-7818.6	47183.8
183.	27.9	689.4	-7.3	3323.6	-7148.7	115475.2

Asta	54	nod	16	15		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	-7032.7	1385.4	-16.5	2666.2	-8403.9	1003.5
92.	-7149.2	1096.9	-16.5	2666.2	-6890.3	113430.5
183.	-7205.1	958.4	-16.5	2666.2	-5376.6	206324.4

Asta	55	nod	15	5		
PROGR.	NORM	TYY	TZZ	TORS	MYY	MZZ
0.	-12616.5	525.2	-45.0	1679.2	-6854.7	53310.9

92.	-12733.1	236.7	-45.0	1679.2	-2736.0	87032.7
183.	-12789.1	98.2	-45.0	1679.2	1382.7	101217.4
Asta	64	nodì	30	15		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3485.3	1301.5	-26.6	-646.7	-6674.4	-95221.2
243.	-3485.3	-58.8	-26.6	-646.7	-204.2	51966.8
487.	-3485.3	-1216.5	-26.6	-646.7	6266.0	-107410.4
Asta	65	nodì	31	16		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4913.7	856.7	-89.0	-18.9	-16759.1	-31286.7
184.	-4913.7	-167.0	-89.0	-18.9	-433.8	29099.7
367.	-4913.7	-1001.0	-89.0	-18.9	15891.5	-80959.0
Asta	66	nodì	32	19		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4783.8	877.1	-220.0	908.3	-28413.6	2566.8
124.	-4783.8	-445.6	-220.0	908.3	-1238.0	22214.1
247.	-4783.8	-1088.7	-220.0	908.3	25937.5	-79525.5
Asta	67	nodì	33	20		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-3783.0	-734.9	-450.4	1780.3	-28884.9	46261.4
64.	-3783.0	-742.0	-450.4	1780.3	-282.3	-628.5
127.	-3783.0	-749.1	-450.4	1780.3	28320.3	-47971.4
Asta	86	nodì	11	30		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2166.4	2383.6	-10.7	-154.0	-524.8	-1503.3
69.	-2153.5	2361.1	-10.7	-154.0	217.9	162455.1
138.	-2140.7	2338.7	-10.7	-154.0	960.6	324861.0
Asta	87	nodì	30	31		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-799.6	105.2	-12.1	-534.3	230.6	323580.6
69.	-786.7	82.7	-12.1	-534.3	1064.8	330072.7
138.	-773.9	60.3	-12.1	-534.3	1899.0	335012.8
Asta	88	nodì	31	32		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	235.2	-1344.3	33.1	-2287.0	1144.3	335011.8
69.	248.1	-1366.7	33.1	-2287.0	-1144.8	241330.4
138.	260.9	-1389.2	33.1	-2287.0	-3434.0	146096.4
Asta	89	nodì	32	33		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	1233.9	-2240.9	8.7	3732.8	4667.1	148005.3
69.	1246.7	-2263.4	8.7	3732.8	4067.1	-7647.7
138.	1259.5	-2285.9	8.7	3732.8	3467.2	-164853.3
Asta	90	nodì	33	2		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	1472.3	-808.1	-10.2	-29.8	-47.2	-161240.2
73.	1485.9	-831.9	-10.2	-29.8	701.8	-221256.6
146.	1499.5	-855.7	-10.2	-29.8	1450.9	-283014.3

SOLLECITAZIONI ASTE

CASO DI CARICO : 4 SLU con SISMAX PRINC COMBINAZIONE

N. 2 CONDIZIONI ANALISI STATICA

1 Peso_proprio_____ + 1.00

2 Permanente_____ + 1.00

N. 2 CASI DI CARICO

2 SISMAX SLU 1.00

3 SISMAX SLU 0.30

- 1) +1.00*c001 +1.00*c002 +1.00*C002.001 +0.30*C003.001
- 2) +1.00*c001 +1.00*c002 +1.00*C002.001 +0.30*C003.002
- 3) +1.00*c001 +1.00*c002 +1.00*C002.001 +0.30*C003.003
- 4) +1.00*c001 +1.00*c002 +1.00*C002.001 +0.30*C003.004
- 5) +1.00*c001 +1.00*c002 +1.00*C002.002 +0.30*C003.001
- 6) +1.00*c001 +1.00*c002 +1.00*C002.002 +0.30*C003.002
- 7) +1.00*c001 +1.00*c002 +1.00*C002.002 +0.30*C003.003
- 8) +1.00*c001 +1.00*c002 +1.00*C002.002 +0.30*C003.004
- 9) +1.00*c001 +1.00*c002 +1.00*C002.003 +0.30*C003.001
- 10) +1.00*c001 +1.00*c002 +1.00*C002.003 +0.30*C003.002
- 11) +1.00*c001 +1.00*c002 +1.00*C002.003 +0.30*C003.003
- 12) +1.00*c001 +1.00*c002 +1.00*C002.003 +0.30*C003.004
- 13) +1.00*c001 +1.00*c002 +1.00*C002.004 +0.30*C003.001
- 14) +1.00*c001 +1.00*c002 +1.00*C002.004 +0.30*C003.002
- 15) +1.00*c001 +1.00*c002 +1.00*C002.004 +0.30*C003.003
- 16) +1.00*c001 +1.00*c002 +1.00*C002.004 +0.30*C003.004

Unità di misura: Prog e frecce [cm];NORM,TTY,TZZ [dan]
MZZ,MY,TORS [dan]

Asta	17	nod	14	30	MY	MZ
PROGR.	NORM	TTY	TZZ	TORS	MY	MZ
0.	-1216.9	413.3	14.2	208.4	3258.8	-35522.5
	-1216.2	413.6	13.5	206.4	3095.9	-35589.0
	-1265.5	414.6	15.0	187.1	3554.5	-35990.7
	-1264.8	414.9	14.4	185.1	3391.7	-36057.2
	-1212.7	411.7	16.6	212.1	3835.8	-35116.7
	-1212.0	412.0	15.9	210.0	3673.0	-35183.2
	-1261.3	413.0	17.4	190.8	4131.6	-35584.9
	-1260.7	413.3	16.8	188.7	3968.8	-35651.4
	-1281.1	421.8	3.6	257.3	963.7	-38101.0
	-1280.4	422.1	3.0	255.3	800.9	-38167.5
	-1329.7	423.1	4.5	236.1	1259.5	-38569.2
	-1329.0	423.4	3.8	234.0	1096.6	-38635.7
	-1276.9	420.3	6.0	261.0	1540.8	-37695.2
	-1276.2	420.6	5.4	258.9	1377.9	-37761.7
	-1325.5	421.6	6.9	239.7	1836.5	-38163.4
	-1324.8	421.9	6.2	237.6	1673.7	-38229.9
244.	-1216.9	15.4	14.2	208.4	-192.3	18050.9
	-1216.2	15.7	13.5	206.4	-199.0	18061.2
	-1265.5	16.7	15.0	187.1	-104.1	17901.4
	-1264.8	17.0	14.4	185.1	-110.8	17911.7
	-1212.7	13.8	16.6	212.1	-204.9	18077.7
	-1212.0	14.2	15.9	210.0	-211.6	18087.9
	-1261.3	15.1	17.4	190.8	-116.6	17928.2
	-1260.7	15.5	16.8	188.7	-123.3	17938.4
	-1281.1	23.9	3.6	257.3	82.8	17550.5
	-1280.4	24.2	3.0	255.3	76.1	17560.8
	-1329.7	25.2	4.5	236.1	171.1	17401.0
	-1329.0	25.5	3.8	234.0	164.4	17411.3
	-1276.9	22.4	6.0	261.0	70.2	17577.3
	-1276.2	22.7	5.4	258.9	63.5	17587.6
	-1325.5	23.7	6.9	239.7	158.5	17427.8
	-1324.8	24.0	6.2	237.6	151.8	17438.0
487.	-1216.9	-450.1	14.2	208.4	-3643.5	-33510.2
	-1216.2	-449.8	13.5	206.4	-3494.0	-33423.2
	-1265.5	-448.8	15.0	187.1	-3762.7	-33341.0
	-1264.8	-448.4	14.4	185.1	-3613.3	-33254.0
	-1212.7	-451.6	16.6	212.1	-4245.7	-33862.4
	-1212.0	-451.3	15.9	210.0	-4096.2	-33775.4
	-1261.3	-450.3	17.4	190.8	-4364.9	-33693.3
	-1260.7	-450.0	16.8	188.7	-4215.5	-33606.3
	-1281.1	-441.5	3.6	257.3	-798.1	-31932.5
	-1280.4	-441.2	3.0	255.3	-648.7	-31845.4
	-1329.7	-440.2	4.5	236.1	-917.4	-31763.3
	-1329.0	-439.9	3.8	234.0	-767.9	-31676.3
	-1276.9	-443.1	6.0	261.0	-1400.3	-32284.7
	-1276.2	-442.8	5.4	258.9	-1250.9	-32197.7
	-1325.5	-441.8	6.9	239.7	-1519.6	-32115.6
	-1324.8	-441.5	6.2	237.6	-1370.1	-32028.5
Asta	18	nod	17	31	MY	MZ
PROGR.	NORM	TTY	TZZ	TORS	MY	MZ
0.	-1736.0	338.1	37.0	-23.6	6641.4	-26631.1
	-1735.2	338.5	36.1	-25.3	6465.8	-26693.1
	-1805.8	338.8	37.6	-39.0	6821.7	-26924.9
	-1805.0	339.3	36.6	-40.7	6646.1	-26987.0
	-1728.1	336.0	40.2	-18.7	7214.9	-26217.0
	-1727.3	336.4	39.3	-20.4	7039.3	-26279.0
	-1797.9	336.8	40.8	-34.1	7395.3	-26510.8
	-1797.1	337.2	39.8	-35.8	7219.7	-26572.8
	-1825.9	349.7	23.9	23.9	4507.5	-29288.0
	-1825.1	350.1	23.0	22.3	4331.9	-29350.1
	-1895.7	350.5	24.5	8.5	4687.8	-29581.9
	-1894.9	350.9	23.5	6.9	4512.2	-29643.9
	-1818.0	347.6	27.1	28.8	5081.0	-28873.9
	-1817.2	348.0	26.2	27.1	4905.4	-28935.9
	-1887.8	348.4	27.7	13.4	5261.4	-29167.7
	-1887.0	348.8	26.7	11.8	5085.7	-29229.7
184.	-1736.0	51.0	37.0	-23.6	-154.5	10041.7
	-1735.2	51.4	36.1	-25.3	-162.8	10053.7
	-1805.8	51.8	37.6	-39.0	-72.0	9892.2
	-1805.0	52.2	36.6	-40.7	-80.2	9904.1
	-1728.1	48.9	40.2	-18.7	-167.0	10073.3
	-1727.3	49.3	39.3	-20.4	-175.3	10085.2
	-1797.9	49.7	40.8	-34.1	-84.5	9923.7
	-1797.1	50.1	39.8	-35.8	-92.7	9935.7
	-1825.9	62.6	23.9	23.9	115.8	9515.1
	-1825.1	63.0	23.0	22.3	107.5	9527.0
	-1895.7	63.4	24.5	8.5	198.4	9365.5
	-1894.9	63.8	23.5	6.9	190.1	9377.5
	-1818.0	60.5	27.1	28.8	103.3	9546.7
	-1817.2	60.9	26.2	27.1	95.0	9558.6
	-1887.8	61.3	27.7	13.4	185.9	9397.1
	-1887.0	61.7	26.7	11.8	177.6	9409.1
367.	-1736.0	-299.3	37.0	-23.6	-6950.4	-11780.8
	-1735.2	-298.9	36.1	-25.3	-6791.3	-11694.9
	-1805.8	-298.5	37.6	-39.0	-6965.8	-11786.3
	-1805.0	-298.1	36.6	-40.7	-6806.7	-11700.4

		-1728.1	-301.4	40.2	-18.7	-7548.9	-12131.8
		-1727.3	-301.0	39.3	-20.4	-7389.8	-12045.9
		-1797.9	-300.6	40.8	-34.1	-7564.4	-12137.3
		-1797.1	-300.2	39.8	-35.8	-7405.3	-12051.4
		-1825.9	-287.7	23.9	23.9	-4275.8	-10177.1
		-1825.1	-287.3	23.0	22.3	-4116.7	-10091.2
		-1895.7	-286.9	24.5	8.5	-4291.3	-10182.7
		-1894.9	-286.5	23.5	6.9	-4132.2	-10096.7
		-1818.0	-289.8	27.1	28.8	-4874.3	-10528.1
		-1817.2	-289.4	26.2	27.1	-4715.2	-10442.2
		-1887.8	-289.0	27.7	13.4	-4889.8	-10533.6
		-1887.0	-288.6	26.7	11.8	-4730.7	-10447.7
Asta	20	nod1	21	33			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-1394.0	341.6	173.2	-668.8	10844.1	-18364.3	
	-1393.0	342.0	171.8	-667.9	10744.1	-18383.0	
	-1406.6	336.6	170.4	-659.2	10706.6	-18139.7	
	-1405.5	337.0	168.9	-658.2	10606.6	-18158.4	
	-1395.9	339.2	175.9	-660.5	10999.0	-18175.9	
	-1394.9	339.6	174.4	-659.5	10898.9	-18194.6	
	-1408.5	334.2	173.0	-650.8	10861.4	-17951.3	
	-1407.4	334.6	171.5	-649.9	10761.4	-17970.0	
	-1389.3	356.0	160.6	-644.8	10136.2	-19547.4	
	-1388.3	356.5	159.1	-643.9	10036.2	-19566.1	
	-1401.9	351.0	157.7	-635.1	9998.6	-19322.8	
	-1400.8	351.5	156.3	-634.2	9898.6	-19341.5	
	-1391.2	353.6	163.2	-636.5	10291.0	-19359.0	
	-1390.2	354.0	161.8	-635.5	10191.0	-19377.7	
	-1403.8	348.6	160.4	-626.8	10153.5	-19134.4	
	-1402.7	349.1	158.9	-625.9	10053.4	-19153.1	
64.	-1394.0	263.9	173.2	-668.8	-165.6	1035.3	
	-1393.0	264.3	171.8	-667.9	-172.7	1043.5	
	-1406.6	258.9	170.4	-659.2	-120.9	942.8	
	-1405.5	259.3	168.9	-658.2	-128.0	951.0	
	-1395.9	261.5	175.9	-660.5	-177.9	1070.5	
	-1394.9	261.9	174.4	-659.5	-185.0	1078.7	
	-1408.5	256.5	173.0	-650.8	-133.2	978.0	
	-1407.4	256.9	171.5	-649.9	-140.3	986.2	
	-1389.3	278.3	160.6	-644.8	-70.2	769.8	
	-1388.3	278.8	159.1	-643.9	-77.3	778.0	
	-1401.9	273.3	157.7	-635.1	-25.5	677.3	
	-1400.8	273.8	156.3	-634.2	-32.6	685.5	
	-1391.2	275.9	163.2	-636.5	-82.4	805.0	
	-1390.2	276.4	161.8	-635.5	-89.5	813.2	
	-1403.8	270.9	160.4	-626.8	-37.8	712.5	
	-1402.7	271.4	158.9	-625.9	-44.9	720.7	
127.	-1394.0	156.0	173.2	-668.8	-11175.3	14537.0	
	-1393.0	156.4	171.8	-667.9	-11089.5	14572.1	
	-1406.6	151.0	170.4	-659.2	-10948.5	14127.4	
	-1405.5	151.4	168.9	-658.2	-10862.7	14162.5	
	-1395.9	153.6	175.9	-660.5	-11354.7	14419.0	
	-1394.9	154.0	174.4	-659.5	-11268.9	14454.0	
	-1408.5	148.6	173.0	-650.8	-11127.8	14009.4	
	-1407.4	149.0	171.5	-649.9	-11042.0	14044.4	
	-1389.3	170.4	160.6	-644.8	-10276.5	15189.1	
	-1388.3	170.8	159.1	-643.9	-10190.7	15224.2	
	-1401.9	165.4	157.7	-635.1	-10049.7	14779.6	
	-1400.8	165.9	156.3	-634.2	-9963.9	14814.6	
	-1391.2	168.0	163.2	-636.5	-10455.9	15071.1	
	-1390.2	168.4	161.8	-635.5	-10370.1	15106.1	
	-1403.8	163.0	160.4	-626.8	-10229.0	14661.5	
	-1402.7	163.4	158.9	-625.9	-10143.2	14696.6	
Asta	41	nod1	3	14			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-4361.6	132.1	-23.6	229.0	-579.0	33971.4	
	-4349.0	135.5	-13.5	240.6	-310.3	33946.8	
	-4536.0	64.7	-54.8	567.7	-1389.3	34679.4	
	-4523.4	68.1	-44.7	579.3	-1120.7	34654.8	
	-4319.6	143.4	-57.1	189.8	-1474.7	33889.2	
	-4307.0	146.8	-47.1	201.4	-1206.0	33864.7	
	-4494.0	76.0	-88.3	528.5	-2285.1	34597.2	
	-4481.4	79.4	-78.3	540.1	-2016.4	34572.6	
	-4958.1	-95.0	80.7	-839.9	2133.2	36352.2	
	-4945.6	-91.6	90.8	-828.3	2401.8	36327.6	
	-5132.5	-162.4	49.5	-501.2	1322.8	37060.2	
	-5120.0	-159.0	59.6	-489.6	1591.5	37035.6	
	-4916.1	-83.7	47.2	-879.1	1237.5	36270.0	
	-4903.6	-80.3	57.2	-867.5	1506.1	36245.4	
	-5090.5	-151.1	16.0	-540.4	427.1	36978.0	
	-5078.0	-147.7	26.0	-528.8	695.8	36953.4	
92.	-4331.7	58.2	-23.6	229.0	1578.8	43063.7	
	-4319.2	61.6	-13.5	240.6	926.8	43347.9	
	-4506.1	-9.1	-54.8	567.7	3624.0	37603.4	
	-4493.5	-5.8	-44.7	579.3	2971.9	37887.6	
	-4289.7	69.5	-57.1	189.8	3753.5	44013.9	
	-4277.2	72.9	-47.1	201.4	3101.4	44298.0	
	-4464.1	2.1	-88.3	528.5	5798.6	38553.6	
	-4451.5	5.5	-78.3	540.1	5146.6	38837.8	
	-4928.3	-168.8	80.7	-839.9	-5252.6	24661.5	

		-4915.7	-165.5	90.8	-828.3	-5904.7	24945.6
		-5102.6	-236.2	49.5	-501.2	-3207.4	19201.2
		-5090.1	-232.9	59.6	-489.6	-3859.5	19485.4
		-4886.3	-157.6	47.2	-879.1	-3078.0	25611.7
		-4873.7	-154.2	57.2	-867.5	-3730.0	25895.8
		-5060.6	-224.9	16.0	-540.4	-1032.8	20151.4
		-5048.1	-221.6	26.0	-528.8	-1684.9	20435.5
183.		-4281.7	-65.6	-23.6	229.0	3736.7	43108.9
		-4269.1	-62.2	-13.5	240.6	2163.9	43701.7
		-4456.0	-133.0	-54.8	567.7	8637.4	31480.3
		-4443.5	-129.6	-44.7	579.3	7064.6	32073.2
		-4239.7	-54.3	-57.1	189.8	8981.6	45091.4
		-4227.1	-50.9	-47.1	201.4	7408.8	45684.2
		-4414.0	-121.7	-88.3	528.5	13882.3	33462.9
		-4401.5	-118.3	-78.3	540.1	12309.5	34055.7
		-4878.2	-292.7	80.7	-839.9	-12638.3	3923.6
		-4865.7	-289.3	90.8	-828.3	-14211.1	4516.5
		-5052.6	-360.1	49.5	-501.2	-7737.7	-7704.9
		-5040.0	-356.7	59.6	-489.6	-9310.5	-7112.0
		-4836.2	-281.4	47.2	-879.1	-7393.4	5906.2
		-4823.7	-278.0	57.2	-867.5	-8966.2	6499.0
		-5010.6	-348.8	16.0	-540.4	-2492.7	-5722.3
		-4998.0	-345.4	26.0	-528.8	-4065.5	-5129.5
Asta	42	nod	14	17			
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ	
0.	-2489.4	-231.7	-8.2	436.2	3024.3	93743.5	
	-2481.6	-230.0	-1.1	446.5	1813.6	94296.8	
	-2579.2	-268.9	-22.9	984.9	6946.0	82972.4	
	-2571.4	-267.3	-15.9	995.3	5735.3	83525.7	
	-2463.1	-226.2	-31.7	401.0	7061.8	95593.1	
	-2455.2	-224.6	-24.6	411.4	5851.1	96146.4	
	-2552.9	-263.5	-46.4	949.8	10983.5	84822.0	
	-2545.1	-261.8	-39.4	960.1	9772.8	85375.3	
	-2802.7	-358.2	42.6	-1316.1	-10048.8	57504.1	
	-2794.8	-356.6	49.7	-1305.7	-11259.5	58057.4	
	-2892.5	-395.5	27.9	-767.3	-6127.1	46733.0	
	-2884.6	-393.8	34.9	-757.0	-7337.8	47286.2	
	-2776.3	-352.7	19.1	-1351.2	-6011.3	59353.7	
	-2768.5	-351.1	26.2	-1340.9	-7222.0	59907.0	
	-2866.2	-390.0	4.4	-802.5	-2089.6	48582.6	
	-2858.3	-388.3	11.4	-792.1	-3300.3	49135.9	
92.	-2459.6	-305.5	-8.2	436.2	3773.0	69546.5	
	-2451.8	-303.9	-1.1	446.5	1917.7	70248.9	
	-2549.4	-342.8	-22.9	984.9	9044.1	55365.1	
	-2541.6	-341.2	-15.9	995.3	7188.8	56067.6	
	-2433.3	-300.0	-31.7	401.0	9962.0	71897.8	
	-2425.4	-298.4	-24.6	411.4	8106.6	72600.2	
	-2523.1	-337.3	-46.4	949.8	15233.1	57716.4	
	-2515.2	-335.7	-39.4	960.1	13377.8	58418.8	
	-2772.9	-432.1	42.6	-1316.1	-13949.2	21729.5	
	-2765.0	-430.4	49.7	-1305.7	-15804.5	22432.0	
	-2862.7	-469.3	27.9	-767.3	-8678.0	7548.2	
	-2854.8	-467.7	34.9	-757.0	-10533.4	8250.6	
	-2746.5	-426.6	19.1	-1351.2	-7760.2	24080.8	
	-2738.7	-424.9	26.2	-1340.9	-9615.5	24783.2	
	-2836.3	-463.8	4.4	-802.5	-2489.1	9899.5	
	-2828.5	-462.2	11.4	-792.1	-4344.4	10601.9	
183.	-2409.6	-429.4	-8.2	436.2	4521.7	36304.1	
	-2401.8	-427.7	-1.1	446.5	2021.7	37155.7	
	-2499.4	-466.6	-22.9	984.9	11142.2	18712.5	
	-2491.6	-465.0	-15.9	995.3	8642.2	19564.1	
	-2383.3	-423.9	-31.7	401.0	12862.2	39157.1	
	-2375.4	-422.3	-24.6	411.4	10362.2	40008.6	
	-2473.1	-461.2	-46.4	949.8	19482.7	21565.5	
	-2465.2	-459.5	-39.4	960.1	16982.7	22417.1	
	-2722.9	-555.9	42.6	-1316.1	-17849.5	-23090.4	
	-2715.0	-554.3	49.7	-1305.7	-20349.5	-22238.8	
	-2812.7	-593.2	27.9	-767.3	-11229.0	-40681.9	
	-2804.8	-591.5	34.9	-757.0	-13728.9	-39830.3	
	-2696.5	-550.4	19.1	-1351.2	-9509.0	-20237.4	
	-2688.7	-548.8	26.2	-1340.9	-12009.0	-19385.8	
	-2786.4	-587.7	4.4	-802.5	-2888.5	-37829.0	
	-2778.5	-586.1	11.4	-792.1	-5388.5	-36977.4	
Asta	43	nod	17	18			
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ	
0.	-52.8	-207.7	-0.6	626.7	3857.1	74027.0	
	-52.2	-208.7	1.2	631.9	1729.6	74834.7	
	-29.9	-203.9	0.3	1193.4	9595.8	57183.1	
	-29.3	-205.0	2.1	1198.6	7468.4	57990.8	
	-51.0	-211.3	-6.4	609.4	10955.4	76731.5	
	-50.4	-212.3	-4.6	614.6	8827.9	77539.2	
	-28.1	-207.5	-5.6	1176.0	16694.1	59887.6	
	-27.5	-208.6	-3.8	1181.2	14566.6	60695.3	
	15.2	-196.6	-0.1	-1236.3	-15503.2	17307.9	
	15.8	-197.7	1.7	-1231.1	-17630.6	18115.6	
	38.2	-192.8	0.8	-669.7	-9764.4	464.0	
	38.7	-193.9	2.6	-664.5	-11891.9	1271.7	
	17.1	-200.2	-5.9	-1253.7	-8404.9	20012.4	
	17.6	-201.3	-4.1	-1248.5	-10532.4	20820.1	

	40.0	-196.4	-5.0	-687.0	-2666.2	3168.5
	40.6	-197.5	-3.3	-681.8	-4793.6	3976.2
92.	-22.9	-281.5	-0.6	626.7	3910.2	52021.8
	-22.4	-282.6	1.2	631.9	1619.8	52732.0
	0.0	-277.8	0.3	1193.4	9570.3	35523.3
	0.5	-278.8	2.1	1198.6	7279.9	36233.4
	-21.1	-285.1	-6.4	609.4	11542.2	54396.8
	-20.5	-286.2	-4.6	614.6	9251.8	55107.0
	1.8	-281.4	-5.6	1176.0	17202.3	37898.3
	2.4	-282.4	-3.8	1181.2	14911.8	38608.4
	45.1	-270.4	-0.1	-1236.3	-15496.5	-3683.2
	45.7	-271.5	1.7	-1231.1	-17787.0	-2973.1
	68.0	-266.7	0.8	-669.7	-9836.5	-20181.8
	68.6	-267.7	2.6	-664.5	-12126.9	-19471.6
	46.9	-274.0	-5.9	-1253.7	-7864.6	-1308.2
	47.5	-275.1	-4.1	-1248.5	-10155.0	-598.0
	69.8	-270.3	-5.0	-687.0	-2204.5	-17806.8
183.	70.4	-271.3	-3.3	-681.8	-4495.0	-17096.6
	27.1	-405.4	-0.6	626.7	3963.4	20969.5
	27.7	-406.4	1.2	631.9	1510.0	21582.2
	50.0	-401.6	0.3	1193.4	9544.8	4816.2
	50.6	-402.7	2.1	1198.6	7091.4	5428.9
	28.9	-409.0	-6.4	609.4	12129.0	23015.0
	29.5	-410.0	-4.6	614.6	9675.6	23627.7
	51.9	-405.2	-5.6	1176.0	17710.4	6861.7
	52.4	-406.3	-3.8	1181.2	15257.0	7474.4
	95.2	-394.3	-0.1	-1236.3	-15489.9	-33721.5
	95.7	-395.4	1.7	-1231.1	-17943.3	-33108.8
	118.1	-390.5	0.8	-669.7	-9908.5	-49874.8
	118.6	-391.6	2.6	-664.5	-12361.9	-49262.2
	97.0	-397.9	-5.9	-1253.7	-7324.3	-31676.0
	97.6	-399.0	-4.1	-1248.5	-9777.7	-31063.3
	119.9	-394.1	-5.0	-687.0	-1742.9	-47829.3
	120.5	-395.2	-3.3	-681.8	-4196.3	-47216.6
Asta	44	nod	18	21		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	2279.1	-131.0	5.4	504.2	3474.9	51397.5
	2271.8	-135.0	1.6	502.9	1318.9	51973.0
	2382.0	-98.1	14.8	884.0	8449.6	35679.5
	2374.7	-102.1	11.0	882.7	6293.6	36254.9
	2254.5	-144.4	17.8	510.3	10648.4	53316.5
	2247.2	-148.3	14.0	509.0	8492.4	53892.0
	2357.4	-111.4	27.2	890.1	15623.1	37598.4
	2350.0	-115.4	23.4	888.8	13467.1	38173.9
	2640.9	-15.3	-34.3	-878.3	-13914.2	-1556.4
	2633.6	-19.3	-38.0	-879.6	-16070.2	-980.9
	2743.7	17.6	-24.9	-498.5	-8939.5	-17274.5
	2736.4	13.6	-28.6	-499.8	-11095.5	-16699.0
	2616.3	-28.7	-21.9	-872.2	-6740.7	362.5
	2608.9	-32.6	-25.7	-873.5	-8896.7	938.0
	2719.1	4.2	-12.5	-492.3	-1766.0	-15355.5
	2711.8	0.3	-16.3	-493.6	-3922.0	-14780.1
92.	2309.0	-204.9	5.4	504.2	2979.9	36405.6
	2301.7	-208.9	1.6	502.9	1168.0	36616.8
	2411.8	-172.0	14.8	884.0	7094.6	23699.4
	2404.5	-176.0	11.0	882.7	5282.7	23910.7
	2284.4	-218.2	17.8	510.3	9022.5	37105.9
	2277.0	-222.2	14.0	509.0	7210.5	37317.1
	2387.2	-185.3	27.2	890.1	13137.2	24399.7
	2379.9	-189.3	23.4	888.8	11325.3	24610.9
	2670.7	-89.2	-34.3	-878.3	-10778.7	-5960.1
	2663.4	-93.2	-38.0	-879.6	-12590.6	-5748.9
	2773.6	-56.3	-24.9	-498.5	-6664.0	-18666.3
	2766.3	-60.3	-28.6	-499.8	-8475.9	-18455.1
	2646.1	-102.5	-21.9	-872.2	-4736.1	-5259.9
	2638.8	-106.5	-25.7	-873.5	-6548.1	-5048.7
	2749.0	-69.6	-12.5	-492.3	-621.4	-17966.0
	2741.6	-73.6	-16.3	-493.6	-2433.3	-17754.8
183.	2359.0	-328.7	5.4	504.2	2485.0	12366.5
	2351.7	-332.7	1.6	502.9	1017.0	12213.5
	2461.9	-295.8	14.8	884.0	5739.7	2672.3
	2454.6	-299.8	11.0	882.7	4271.7	2519.2
	2334.4	-342.1	17.8	510.3	7396.7	11848.1
	2327.1	-346.0	14.0	509.0	5928.7	11695.1
	2437.3	-309.1	27.2	890.1	10651.4	2153.8
	2429.9	-313.1	23.4	888.8	9183.4	2000.8
	2720.8	-213.1	-34.3	-878.3	-7643.2	-19411.0
	2713.5	-217.0	-38.0	-879.6	-9111.1	-19564.1
	2823.7	-180.1	-24.9	-498.5	-4388.4	-29105.3
	2816.3	-184.1	-28.6	-499.8	-5856.4	-29258.3
	2696.2	-226.4	-21.9	-872.2	-2731.5	-19929.5
	2688.8	-230.3	-25.7	-873.5	-4199.4	-20082.5
	2799.0	-193.5	-12.5	-492.3	523.3	-29623.7
	2791.7	-197.4	-16.3	-493.6	-944.7	-29776.8
Asta	45	nod	21	2		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	4203.0	-310.5	11.6	829.4	2197.0	37250.6
	4190.3	-316.3	4.9	823.0	885.2	37073.3
	4332.4	-266.0	26.2	893.9	5196.8	27639.9

		4319.7	-271.8	19.4	887.6	3885.0	27462.6
		4160.7	-329.9	34.5	851.7	6587.6	36651.6
		4148.0	-335.7	27.7	845.4	5275.8	36474.3
		4290.1	-285.4	49.0	916.2	9587.4	27040.9
		4277.5	-291.2	42.2	909.9	8275.6	26863.7
		4651.7	-163.5	-34.7	369.4	-7132.4	6016.7
		4639.0	-169.4	-41.5	363.1	-8444.2	5839.4
		4781.1	-119.1	-20.1	433.9	-4132.5	-3594.0
		4768.4	-124.9	-26.9	427.6	-5444.3	-3771.3
		4609.4	-182.9	-11.9	391.7	-2741.8	5417.7
		4596.7	-188.7	-18.6	385.4	-4053.5	5240.5
		4738.8	-138.4	2.7	456.3	258.1	-4193.0
		4726.2	-144.2	-4.1	450.0	-1053.7	-4370.2
97.		4235.2	-390.3	11.6	829.4	1068.1	3738.3
		4222.5	-396.1	4.9	823.0	414.0	2997.8
		4364.6	-345.8	26.2	893.9	2659.2	-1560.2
		4352.0	-351.6	19.4	887.6	2005.1	-2300.7
		4192.9	-409.7	34.5	851.7	3245.9	1262.8
		4180.3	-415.5	27.7	845.4	2591.8	522.3
		4322.4	-365.2	49.0	916.2	4837.0	-4035.7
		4309.7	-371.0	42.2	909.9	4182.9	-4776.2
		4683.9	-243.3	-34.7	369.4	-3770.8	-13249.2
		4671.2	-249.1	-41.5	363.1	-4424.8	-13989.6
		4813.3	-198.8	-20.1	433.9	-2179.6	-18547.6
		4800.7	-204.7	-26.9	427.6	-2833.7	-19288.1
		4641.6	-262.7	-11.9	391.7	-1593.0	-15724.7
		4629.0	-268.5	-18.6	385.4	-2247.1	-16465.2
		4771.1	-218.2	2.7	456.3	-1.9	-21023.2
194.		4758.4	-224.0	-4.1	450.0	-655.9	-21763.6
		4290.1	-526.2	11.6	829.4	-60.8	-40224.4
		4277.4	-532.0	4.9	823.0	-57.2	-41528.1
		4419.5	-481.7	26.2	893.9	121.6	-41210.9
		4406.8	-487.5	19.4	887.6	125.3	-42514.6
		4247.8	-545.5	34.5	851.7	-95.8	-44576.4
		4235.1	-551.3	27.7	845.4	-92.2	-45880.1
		4377.2	-501.0	49.0	916.2	86.6	-45563.0
		4364.6	-506.8	42.2	909.9	90.2	-46866.7
		4738.8	-379.2	-34.7	369.4	-409.1	-42965.6
		4726.1	-385.0	-41.5	363.1	-405.5	-44269.3
		4868.2	-334.7	-20.1	433.9	-226.7	-43952.1
		4855.5	-340.5	-26.9	427.6	-223.1	-45255.8
		4696.5	-398.5	-11.9	391.7	-444.2	-47317.7
		4683.8	-404.3	-18.6	385.4	-440.6	-48621.3
		4825.9	-354.0	2.7	456.3	-261.8	-48304.2
		4813.3	-359.9	-4.1	450.0	-258.1	-49607.9
Asta	51	nod1	2	20			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.		4632.4	320.0	29.0	-442.0	-645.2	-50911.2
		4645.3	314.3	22.3	-447.8	-639.3	-49623.4
		4759.9	276.3	15.7	-504.2	-436.4	-52035.4
		4772.8	270.6	9.0	-510.0	-430.5	-50747.6
		4671.2	301.1	51.3	-420.6	-659.0	-46603.7
		4684.1	295.4	44.6	-426.4	-653.1	-45315.9
		4798.7	257.4	38.0	-482.7	-450.2	-47727.9
		4811.6	251.7	31.4	-488.6	-444.3	-46440.1
		4196.5	466.1	-15.9	-902.9	-159.6	-48091.7
		4209.4	460.4	-22.6	-908.8	-153.7	-46803.9
		4324.0	422.4	-29.1	-965.1	49.2	-49216.0
		4336.9	416.7	-35.8	-971.0	55.1	-47928.1
		4235.4	447.2	6.4	-881.5	-173.4	-43784.3
		4248.3	441.5	-0.3	-887.4	-167.5	-42496.4
		4362.9	403.5	-6.8	-943.7	35.4	-44908.5
		4375.8	397.8	-13.5	-949.5	41.3	-43620.7
97.		4594.5	226.2	29.0	-442.0	-3451.2	-24676.9
		4607.4	220.5	22.3	-447.8	-2796.3	-23939.6
		4722.0	182.5	15.7	-504.2	-1960.7	-30031.7
		4734.9	176.9	9.0	-510.0	-1305.7	-29294.4
		4633.3	207.3	51.3	-420.6	-5627.4	-22200.1
		4646.3	201.6	44.6	-426.4	-4972.5	-21462.7
		4760.8	163.6	38.0	-482.7	-4136.8	-27554.9
		4773.7	158.0	31.4	-488.6	-3481.9	-26817.5
		4158.6	372.3	-15.9	-902.9	1378.2	-7701.4
		4171.6	366.6	-22.6	-908.8	2033.2	-6964.1
		4286.1	328.6	-29.1	-965.1	2868.8	-13056.2
		4299.0	323.0	-35.8	-971.0	3523.7	-12318.9
		4197.5	353.4	6.4	-881.5	-797.9	-5224.6
		4210.4	347.7	-0.3	-887.4	-143.0	-4487.2
		4325.0	309.7	-6.8	-943.7	692.6	-10579.4
		4337.9	304.1	-13.5	-949.5	1347.6	-9842.0
194.		4567.9	160.4	29.0	-442.0	-6257.3	-6171.1
		4580.8	154.8	22.3	-447.8	-4953.3	-5984.3
		4695.4	116.8	15.7	-504.2	-3484.9	-15756.7
		4708.3	111.1	9.0	-510.0	-2181.0	-15569.9
		4606.8	141.6	51.3	-420.6	-10595.8	-5524.9
		4619.7	135.9	44.6	-426.4	-9291.9	-5338.0
		4734.3	97.9	38.0	-482.7	-7823.5	-15110.5
		4747.2	92.2	31.4	-488.6	-6519.6	-14923.6
		4132.1	306.5	-15.9	-902.9	2916.1	24960.6
		4145.0	300.9	-22.6	-908.8	4220.0	25147.5
		4259.5	262.9	-29.1	-965.1	5688.4	15375.0

		4272.5	257.2	-35.8	-971.0	6992.4	15561.9
		4170.9	287.7	6.4	-881.5	-1422.5	25606.9
		4183.8	282.0	-0.3	-887.4	-118.5	25793.8
		4298.4	244.0	-6.8	-943.7	1349.8	16021.3
		4311.3	238.3	-13.5	-949.5	2653.8	16208.1
Asta	52	nod1	20	19			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	2693.4	268.0	21.7	-689.0	-6239.7	-30555.2	
	2701.6	263.9	17.9	-690.3	-4780.3	-30390.9	
	2797.0	234.9	11.4	-1070.4	-3236.6	-40219.8	
	2805.2	230.8	7.6	-1071.7	-1777.2	-40055.4	
	2716.9	254.3	34.6	-682.5	-11095.1	-29987.7	
	2725.1	250.2	30.8	-683.8	-9635.7	-29823.4	
	2820.5	221.2	24.3	-1063.8	-8092.1	-39652.3	
	2828.7	217.1	20.5	-1065.1	-6632.7	-39487.9	
	2338.8	384.9	-19.6	-2069.2	3714.5	1115.4	
	2347.0	380.8	-23.4	-2070.5	5173.9	1279.8	
	2442.4	351.8	-29.9	-2450.6	6717.5	-8549.1	
	2450.6	347.7	-33.7	-2451.9	8176.9	-8384.8	
	2362.2	371.2	-6.7	-2062.7	-1141.0	1682.9	
	2370.4	367.1	-10.5	-2064.0	318.4	1847.2	
	2465.9	338.1	-17.0	-2444.1	1862.1	-7981.7	
	2474.1	334.0	-20.9	-2445.4	3321.5	-7817.3	
92.	2658.5	181.6	21.7	-689.0	-8227.4	-10171.6	
	2666.7	177.6	17.9	-690.3	-6417.0	-10379.5	
	2762.1	148.5	11.4	-1070.4	-4280.8	-22865.2	
	2770.3	144.5	7.6	-1071.7	-2470.4	-23073.0	
	2682.0	167.9	34.6	-682.5	-14261.7	-10858.2	
	2690.2	163.9	30.8	-683.8	-12451.3	-11066.0	
	2785.6	134.8	24.3	-1063.8	-10315.1	-23551.7	
	2793.8	130.8	20.5	-1065.1	-8504.7	-23759.5	
	2303.9	298.6	-19.6	-2069.2	5507.5	32201.3	
	2312.1	294.5	-23.4	-2070.5	7318.0	31993.4	
	2407.5	265.5	-29.9	-2450.6	9454.1	19507.7	
	2415.7	261.4	-33.7	-2451.9	11264.5	19299.9	
	2327.3	284.9	-6.7	-2062.7	-526.8	31514.7	
	2335.5	280.8	-10.5	-2064.0	1283.6	31306.9	
	2431.0	251.8	-17.0	-2444.1	3419.8	18821.2	
183.	2439.2	247.7	-20.9	-2445.4	5230.2	18613.3	
	2633.7	120.2	21.7	-689.0	-10215.1	3451.7	
	2641.9	116.2	17.9	-690.3	-8053.7	2871.7	
	2737.3	87.2	11.4	-1070.4	-5325.0	-12270.8	
	2745.5	83.1	7.6	-1071.7	-3163.6	-12850.8	
	2657.2	106.5	34.6	-682.5	-17428.3	1511.2	
	2665.4	102.5	30.8	-683.8	-15266.8	931.2	
	2760.8	73.5	24.3	-1063.8	-12538.2	-14211.4	
	2769.0	69.4	20.5	-1065.1	-10376.7	-14791.4	
	2279.1	237.2	-19.6	-2069.2	7300.6	56526.9	
	2287.3	233.1	-23.4	-2070.5	9462.0	55946.9	
	2382.7	204.1	-29.9	-2450.6	12190.7	40804.3	
	2390.9	200.0	-33.7	-2451.9	14352.1	40224.4	
	2302.5	223.5	-6.7	-2062.7	87.4	54586.4	
	2310.7	219.4	-10.5	-2064.0	2248.9	54006.4	
	2406.2	190.4	-17.0	-2444.1	4977.5	38863.8	
	2414.4	186.3	-20.9	-2445.4	7139.0	38283.8	
Asta	53	nod1	19	16			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	82.0	413.0	-0.8	2329.7	-12483.3	-32680.2	
	82.1	412.0	1.0	2334.9	-10024.5	-33296.8	
	104.1	409.7	-1.0	1761.9	-7014.2	-48835.7	
	104.2	408.7	0.8	1767.1	-4555.4	-49452.3	
	77.9	409.5	-6.9	2312.5	-20687.9	-34747.2	
	77.9	408.5	-5.1	2317.7	-18229.1	-35363.9	
	100.0	406.2	-7.1	1744.8	-15218.8	-50902.7	
	100.0	405.2	-5.3	1750.0	-12760.0	-51519.4	
	26.6	423.1	0.4	467.4	7094.4	22131.9	
	26.7	422.1	2.2	472.6	9553.2	21515.2	
	48.7	419.8	0.2	-100.4	12563.4	5976.4	
	48.8	418.8	2.0	-95.2	15022.2	5359.7	
	22.5	419.6	-5.7	450.3	-1110.2	20064.9	
	22.5	418.6	-3.8	455.5	1348.6	19448.2	
	44.6	416.3	-5.9	-117.5	4358.8	3909.3	
	44.6	415.3	-4.1	-112.3	6817.6	3292.7	
92.	32.0	289.2	-0.8	2329.7	-12408.4	-925.3	
	32.0	288.2	1.0	2334.9	-10115.9	-1637.6	
	54.1	285.9	-1.0	1761.9	-6918.3	-17382.8	
	54.1	284.9	0.8	1767.1	-4625.8	-18095.1	
	27.8	285.7	-6.9	2312.5	-20055.3	-3314.0	
	27.9	284.6	-5.1	2317.7	-17762.7	-4026.3	
	49.9	282.4	-7.1	1744.8	-14565.2	-19771.6	
	49.9	281.3	-5.3	1750.0	-12272.6	-20483.8	
	-23.4	299.3	0.4	467.4	7054.9	54811.6	
	-23.4	298.3	2.2	472.6	9347.5	54099.4	
	-1.3	296.0	0.2	-100.4	12545.0	38354.1	
	-1.3	295.0	2.0	-95.2	14837.6	37641.8	
	-27.6	295.8	-5.7	450.3	-592.0	52422.9	
	-27.6	294.8	-3.8	455.5	1700.6	51710.6	
	-5.5	292.5	-5.9	-117.5	4898.1	35965.4	
	-5.5	291.5	-4.1	-112.3	7190.7	35253.1	

183.	2.1	215.3	-0.8	2329.7	-12333.6	21782.4
	2.2	214.3	1.0	2334.9	-10207.2	20974.5
	24.2	212.0	-1.0	1761.9	-6822.4	5022.8
	24.3	211.0	0.8	1767.1	-4696.1	4215.0
	-2.0	211.8	-6.9	2312.5	-19422.8	19072.0
	-2.0	210.8	-5.1	2317.7	-17296.4	18264.1
	20.1	208.5	-7.1	1744.8	-13911.6	2312.4
	20.1	207.5	-5.3	1750.0	-11785.2	1504.6
	-53.3	225.4	0.4	467.4	7015.4	78444.2
	-53.3	224.4	2.2	472.6	9141.8	77636.3
	-31.2	222.1	0.2	-100.4	12526.6	61684.6
	-31.2	221.1	2.0	-95.2	14652.9	60876.8
	-57.5	221.9	-5.7	450.3	-73.7	75733.8
	-57.4	220.9	-3.8	455.5	2052.6	74925.9
	-35.4	218.6	-5.9	-117.5	5437.4	58974.2
	-35.3	217.6	-4.1	-112.3	7563.8	58166.4
Asta	54	nod	16	15		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2683.8	550.8	-29.8	2052.9	-14249.6	-18727.4
	-2691.0	552.5	-22.7	2063.2	-11750.7	-19578.9
	-2772.9	588.0	-15.6	1503.1	-7887.8	-36231.6
	-2780.1	589.6	-8.6	1513.4	-5388.9	-37083.1
	-2712.3	556.3	-53.2	2017.8	-22581.6	-21586.8
	-2719.5	558.0	-46.2	2028.1	-20082.7	-22438.3
	-2801.4	593.5	-39.1	1468.0	-16219.8	-39091.0
	-2808.6	595.1	-32.1	1478.3	-13720.9	-39942.5
	-2360.3	424.3	21.0	300.6	8113.3	40608.1
	-2367.5	425.9	28.1	310.8	10612.2	39756.6
	-2449.4	461.4	35.1	-249.2	14475.1	23103.9
	-2456.6	463.1	42.2	-239.0	16974.0	22252.4
	-2388.8	429.8	-2.4	265.5	-218.7	37748.7
	-2396.0	431.4	4.6	275.7	2280.2	36897.2
	-2477.9	466.9	11.7	-284.3	6143.1	20244.4
	-2485.1	468.6	18.7	-274.1	8642.0	19392.9
92.	-2733.8	427.0	-29.8	2052.9	-11527.2	25629.4
	-2740.9	428.6	-22.7	2063.2	-9672.9	24927.7
	-2822.9	464.1	-15.6	1503.1	-6456.5	11523.8
	-2830.1	465.8	-8.6	1513.4	-4602.2	10822.1
	-2762.3	432.5	-53.2	2017.8	-17710.2	23273.4
	-2769.5	434.1	-46.2	2028.1	-15855.9	22571.7
	-2851.4	469.6	-39.1	1468.0	-12639.4	9167.8
	-2858.6	471.3	-32.1	1478.3	-10785.2	8466.1
	-2410.3	300.5	21.0	300.6	6188.2	73386.2
	-2417.5	302.1	28.1	310.8	8042.5	72684.6
	-2499.4	337.6	35.1	-249.2	11258.9	59280.6
	-2506.6	339.2	42.2	-239.0	13113.2	58579.0
	-2438.8	306.0	-2.4	265.5	5.2	71030.2
	-2446.0	307.6	4.6	275.7	1859.5	70328.5
	-2527.9	343.1	11.7	-284.3	5075.9	56924.6
	-2535.1	344.7	18.7	-274.1	6930.2	56222.9
183.	-2763.6	353.1	-29.8	2052.9	-8804.8	60940.9
	-2770.8	354.8	-22.7	2063.2	-7595.1	60389.1
	-2852.7	390.3	-15.6	1503.1	-5025.1	50233.9
	-2859.9	391.9	-8.6	1513.4	-3815.5	49682.1
	-2792.1	358.6	-53.2	2017.8	-12838.8	59088.3
	-2799.3	360.3	-46.2	2028.1	-11629.1	58536.4
	-2881.2	395.8	-39.1	1468.0	-9059.1	48381.3
	-2888.4	397.4	-32.1	1478.3	-7849.4	47829.4
	-2440.1	226.6	21.0	300.6	4263.1	97119.1
	-2447.3	228.2	28.1	310.8	5472.8	96567.2
	-2529.2	263.7	35.1	-249.2	8042.8	86412.1
	-2536.4	265.4	42.2	-239.0	9252.4	85860.2
	-2468.6	232.1	-2.4	265.5	229.1	95266.4
	-2475.8	233.7	4.6	275.7	1438.8	94714.6
	-2557.7	269.2	11.7	-284.3	4008.8	84559.4
	-2564.9	270.9	18.7	-274.1	5218.5	84007.6
Asta	55	nod	15	5		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4808.8	274.7	-70.5	1278.6	-10999.5	7391.4
	-4820.6	278.1	-60.4	1290.1	-9427.7	6800.1
	-4981.8	341.7	-40.4	938.8	-6275.1	-4169.5
	-4993.6	345.1	-30.3	950.3	-4703.3	-4760.8
	-4853.0	286.0	-104.0	1239.5	-16240.8	5405.4
	-4864.8	289.4	-93.9	1250.9	-14669.0	4814.1
	-5026.0	353.0	-73.9	899.7	-11516.4	-6155.5
	-5037.8	356.4	-63.8	911.1	-9944.6	-6746.8
	-4203.0	48.0	33.8	209.1	5372.2	46512.1
	-4214.8	51.4	43.9	220.6	6943.9	45920.9
	-4376.0	115.0	63.9	-130.7	10096.6	34951.3
	-4387.8	118.4	74.0	-119.2	11668.3	34360.0
	-4247.2	59.3	0.3	170.0	130.9	44526.1
	-4259.0	62.7	10.3	181.5	1702.6	43934.9
	-4420.2	126.3	30.4	-169.8	4855.3	32965.3
	-4432.0	129.7	40.4	-158.3	6427.0	32374.0
92.	-4858.8	150.9	-70.5	1278.6	-4551.5	26485.4
	-4870.7	154.2	-60.4	1290.1	-3900.0	26202.1
	-5031.8	217.9	-40.4	938.8	-2581.3	21057.8
	-5043.7	221.2	-30.3	950.3	-1929.8	20774.5
	-4903.0	162.2	-104.0	1239.5	-6724.4	25533.7

		-4914.9	165.5	-93.9	1250.9	-6072.8	25250.3
		-5076.0	229.2	-73.9	899.7	-4754.2	20106.0
		-5087.9	232.5	-63.8	911.1	-4102.6	19822.7
		-4253.1	-75.8	33.8	209.1	2277.5	44856.4
		-4264.9	-72.5	43.9	220.6	2929.1	44573.0
		-4426.1	-8.8	63.9	-130.7	4247.7	39428.8
		-4437.9	-5.5	74.0	-119.2	4899.3	39145.4
		-4297.3	-64.5	0.3	170.0	104.7	43904.6
		-4309.1	-61.2	10.3	181.5	756.2	43621.2
		-4470.2	2.5	30.4	-169.8	2074.9	38477.0
		-4482.1	5.8	40.4	-158.3	2726.4	38193.6
183.		-4888.7	77.0	-70.5	1278.6	1896.4	36532.4
		-4900.6	80.4	-60.4	1290.1	1627.8	36556.9
		-5061.7	144.0	-40.4	938.8	1112.4	37238.0
		-5073.6	147.4	-30.3	950.3	843.8	37262.5
		-4932.9	88.3	-104.0	1239.5	2792.0	36614.8
		-4944.8	91.7	-93.9	1250.9	2523.4	36639.3
		-5105.9	155.3	-73.9	899.7	2008.0	37320.4
		-5117.7	158.7	-63.8	911.1	1739.4	37344.9
		-4282.9	-149.7	33.8	209.1	-817.1	34153.5
		-4294.8	-146.3	43.9	220.6	-1085.7	34178.0
		-4455.9	-82.7	63.9	-130.7	-1601.1	34859.1
		-4467.8	-79.3	74.0	-119.2	-1869.7	34883.6
		-4327.1	-138.4	0.3	170.0	78.4	34235.9
		-4339.0	-135.0	10.3	181.5	-190.2	34260.4
		-4500.1	-71.4	30.4	-169.8	-705.6	34941.5
		-4512.0	-68.0	40.4	-158.3	-974.2	34966.1
Asta	64	nodr	30	15			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.		-1277.1	442.1	-4.6	-263.4	-1108.4	-31971.1
		-1277.7	442.5	-5.3	-265.4	-1257.8	-32058.3
		-1325.6	440.8	-5.4	-241.9	-1213.4	-31793.8
		-1326.2	441.1	-6.1	-243.9	-1362.8	-31880.9
		-1281.3	440.6	-2.2	-259.7	-506.2	-31618.6
		-1281.9	440.9	-2.8	-261.8	-655.5	-31705.8
		-1329.8	439.3	-3.0	-238.3	-611.2	-31441.3
		-1330.4	439.6	-3.6	-240.3	-760.6	-31528.5
		-1212.2	450.7	-15.2	-214.5	-3955.0	-33547.8
		-1212.9	451.0	-15.8	-216.5	-4104.4	-33635.0
		-1260.7	449.3	-16.0	-193.0	-4060.0	-33370.5
		-1261.4	449.7	-16.6	-195.0	-4209.4	-33457.7
		-1216.4	449.1	-12.8	-210.8	-3352.8	-33195.3
		-1217.0	449.4	-13.4	-212.8	-3502.1	-33282.5
		-1264.9	447.8	-13.5	-189.3	-3457.8	-33018.0
		-1265.6	448.1	-14.2	-191.4	-3607.2	-33105.2
243.		-1277.1	-23.2	-4.6	-263.4	16.0	17662.5
		-1277.7	-22.9	-5.3	-265.4	22.7	17652.2
		-1325.6	-24.6	-5.4	-241.9	103.7	17513.8
		-1326.2	-24.2	-6.1	-243.9	110.4	17503.5
		-1281.3	-24.8	-2.2	-259.7	28.6	17635.7
		-1281.9	-24.5	-2.8	-261.8	35.3	17625.4
		-1329.8	-26.1	-3.0	-238.3	116.3	17487.0
		-1330.4	-25.8	-3.6	-240.3	123.0	17476.7
		-1212.2	-14.7	-15.2	-214.5	-259.0	18162.7
		-1212.9	-14.4	-15.8	-216.5	-252.3	18152.4
		-1260.7	-16.0	-16.0	-193.0	-171.3	18014.0
		-1261.4	-15.7	-16.6	-195.0	-164.6	18003.7
		-1216.4	-16.2	-12.8	-210.8	-246.4	18135.9
		-1217.0	-15.9	-13.4	-212.8	-239.7	18125.6
		-1264.9	-17.6	-13.5	-189.3	-158.7	17987.2
		-1265.6	-17.3	-14.2	-191.4	-152.0	17976.9
487.		-1277.1	-421.0	-4.6	-263.4	1140.4	-37795.3
		-1277.7	-420.7	-5.3	-265.4	1303.2	-37728.7
		-1325.6	-422.4	-5.4	-241.9	1420.8	-38270.0
		-1326.2	-422.0	-6.1	-243.9	1583.6	-38203.4
		-1281.3	-422.6	-2.2	-259.7	563.3	-38201.3
		-1281.9	-422.3	-2.8	-261.8	726.1	-38134.8
		-1329.8	-423.9	-3.0	-238.3	843.8	-38676.0
		-1330.4	-423.6	-3.6	-240.3	1006.6	-38609.4
		-1212.2	-412.5	-15.2	-214.5	3437.0	-35218.2
		-1212.9	-412.2	-15.8	-216.5	3599.8	-35151.6
		-1260.7	-413.8	-16.0	-193.0	3717.4	-35692.9
		-1261.4	-413.5	-16.6	-195.0	3880.2	-35626.3
		-1216.4	-414.1	-12.8	-210.8	2859.9	-35624.2
		-1217.0	-413.7	-13.4	-212.8	3022.7	-35557.7
		-1264.9	-415.4	-13.5	-189.3	3140.3	-36098.9
		-1265.6	-415.1	-14.2	-191.4	3303.1	-36032.3
Asta	65	nodr	31	16			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.		-1801.8	287.3	-25.8	-39.5	-4791.0	-9814.5
		-1802.6	287.7	-26.7	-41.2	-4950.0	-9900.8
		-1871.4	286.5	-26.2	-24.0	-4794.5	-9811.7
		-1872.2	286.9	-27.1	-25.6	-4953.5	-9898.0
		-1809.3	285.2	-22.6	-34.6	-4192.4	-9463.1
		-1810.1	285.6	-23.5	-36.3	-4351.3	-9549.4
		-1879.0	284.4	-23.0	-19.1	-4195.8	-9460.3
		-1879.8	284.8	-24.0	-20.7	-4354.8	-9546.6
		-1713.1	298.9	-38.9	8.1	-7467.8	-11417.9
		-1713.9	299.3	-39.8	6.4	-7626.8	-11504.2

PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1401.7	-265.8	-156.0	618.0	-9983.3	16774.4
	-1402.3	-265.4	-157.4	619.0	-10068.1	16737.8
	-1413.8	-260.9	-152.9	608.4	-9744.0	16370.1
	-1414.5	-260.4	-154.4	609.3	-9828.8	16333.5
	-1406.7	-268.2	-153.4	626.4	-9805.5	16890.3
	-1407.4	-267.7	-154.8	627.3	-9890.3	16853.7
	-1418.9	-263.3	-150.3	616.7	-9566.2	16486.0
	-1419.6	-262.8	-151.8	617.6	-9651.0	16449.4
	-1389.7	-251.4	-168.6	642.0	-10877.7	16125.6
	-1390.4	-251.0	-170.0	642.9	-10962.5	16089.0
	-1401.9	-246.5	-165.5	632.4	-10638.4	15721.2
	-1402.6	-246.0	-166.9	633.3	-10723.1	15684.7
	-1394.8	-253.8	-166.0	650.4	-10699.9	16241.5
	-1395.5	-253.3	-167.4	651.3	-10784.7	16204.9
	-1407.0	-248.9	-162.9	640.7	-10460.5	15837.2
	-1407.7	-248.4	-164.3	641.6	-10545.3	15800.6
64.	-1401.7	-271.3	-156.0	618.0	-77.6	-278.3
	-1402.3	-270.8	-157.4	619.0	-70.4	-286.7
	-1413.8	-266.4	-152.9	608.4	-33.9	-370.0
	-1414.5	-265.9	-154.4	609.3	-26.7	-378.3
	-1406.7	-273.7	-153.4	626.4	-65.4	-313.3
	-1407.4	-273.2	-154.8	627.3	-58.2	-321.7
	-1418.9	-268.7	-150.3	616.7	-21.6	-405.0
	-1419.6	-268.3	-151.8	617.6	-14.4	-413.4
	-1389.7	-256.9	-168.6	642.0	-173.6	-13.0
	-1390.4	-256.4	-170.0	642.9	-166.4	-21.4
	-1401.9	-252.0	-165.5	632.4	-129.9	-104.7
	-1402.6	-251.5	-166.9	633.3	-122.7	-113.0
	-1394.8	-259.3	-166.0	650.4	-161.4	-48.0
	-1395.5	-258.8	-167.4	651.3	-154.2	-56.4
	-1407.0	-254.3	-162.9	640.7	-117.6	-139.7
	-1407.7	-253.9	-164.3	641.6	-110.4	-148.0
127.	-1401.7	-276.8	-156.0	618.0	9828.1	-17679.4
	-1402.3	-276.3	-157.4	619.0	9927.2	-17659.6
	-1413.8	-271.9	-152.9	608.4	9676.3	-17458.4
	-1414.5	-271.4	-154.4	609.3	9775.4	-17438.5
	-1406.7	-279.2	-153.4	626.4	9674.7	-17865.4
	-1407.4	-278.7	-154.8	627.3	9773.9	-17845.5
	-1418.9	-274.2	-150.3	616.7	9522.9	-17644.4
	-1419.6	-273.8	-151.8	617.6	9622.1	-17624.5
	-1389.7	-262.4	-168.6	642.0	10530.4	-16500.0
	-1390.4	-261.9	-170.0	642.9	10629.6	-16480.1
	-1401.9	-257.5	-165.5	632.4	10378.6	-16278.9
	-1402.6	-257.0	-166.9	633.3	10477.8	-16259.1
	-1394.8	-264.8	-166.0	650.4	10377.1	-16685.9
	-1395.5	-264.3	-167.4	651.3	10476.3	-16666.1
	-1407.0	-259.8	-162.9	640.7	10225.3	-16464.9
	-1407.7	-259.4	-164.3	641.6	10324.5	-16445.0
Asta	86	nod	11	30		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-712.5	877.0	-53.4	254.8	-2269.1	-548.2
	-712.6	877.0	-47.9	277.5	-2014.2	-548.1
	-825.8	815.3	-53.7	253.6	-2282.7	-508.0
	-825.8	815.3	-48.2	276.4	-2027.8	-508.0
	-712.5	877.0	-77.0	238.2	-3315.7	-548.2
	-712.6	877.0	-71.5	260.9	-3060.9	-548.2
	-825.8	815.3	-77.3	237.0	-3329.3	-508.0
	-825.9	815.3	-71.8	259.8	-3074.5	-508.0
	-712.5	877.0	64.6	-362.4	2723.5	-548.2
	-712.6	876.9	70.1	-339.7	2978.3	-548.2
	-825.8	815.3	64.3	-363.6	2709.9	-508.0
	-825.9	815.3	69.8	-340.8	2964.7	-508.0
	-712.5	877.0	41.0	-379.0	1676.8	-548.2
	-712.6	876.9	46.5	-356.3	1931.6	-548.2
	-825.8	815.3	40.7	-380.1	1663.2	-508.0
	-825.9	815.3	46.2	-357.4	1918.0	-508.0
69.	-702.7	859.7	-53.4	254.8	1421.8	59464.5
	-702.7	859.7	-47.9	277.5	1293.7	59463.2
	-815.9	798.0	-53.7	253.6	1430.1	55241.9
	-816.0	798.0	-48.2	276.4	1302.0	55240.6
	-702.7	859.7	-77.0	238.2	2006.8	59464.5
	-702.7	859.7	-71.5	260.9	1878.8	59463.1
	-815.9	798.0	-77.3	237.0	2015.1	55241.9
	-816.0	798.0	-71.8	259.8	1887.0	55240.6
	-702.7	859.7	64.6	-362.4	-1741.6	59463.9
	-702.7	859.7	70.1	-339.7	-1869.7	59462.6
	-815.9	798.0	64.3	-363.6	-1733.4	55241.4
	-816.0	798.0	69.8	-340.8	-1861.5	55240.1
	-702.7	859.7	41.0	-379.0	-1156.6	59463.9
	-702.7	859.7	46.5	-356.3	-1284.7	59462.6
	-815.9	798.0	40.7	-380.1	-1148.4	55241.4
	-816.0	798.0	46.2	-357.4	-1276.4	55240.1
138.	-692.8	842.4	-53.4	254.8	5112.7	118282.8
	-692.8	842.4	-47.9	277.5	4601.7	118280.2
	-806.0	780.7	-53.7	253.6	5142.8	109797.6
	-806.1	780.7	-48.2	276.4	4631.8	109795.0
	-692.8	842.4	-77.0	238.2	7329.4	118282.8
	-692.8	842.4	-71.5	260.9	6818.4	118280.2
	-806.0	780.7	-77.3	237.0	7359.5	109797.6

		-806.1	780.7	-71.8	259.8	6848.5	109795.0
		-692.8	842.4	64.6	-362.4	-6206.8	118281.7
		-692.8	842.4	70.1	-339.7	-6717.7	118279.1
		-806.0	780.7	64.3	-363.6	-6176.7	109796.5
		-806.1	780.7	69.8	-340.8	-6687.6	109793.9
		-692.8	842.4	41.0	-379.0	-3990.1	118281.7
		-692.8	842.4	46.5	-356.3	-4501.0	118279.1
		-806.0	780.7	40.7	-380.1	-3960.0	109796.5
		-806.1	780.7	46.2	-357.4	-4470.9	109793.9
Asta	87	nod	30	31			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-262.1	61.1	-32.2	178.0	2148.6	117811.0	
	-262.1	61.0	-28.0	203.6	1983.5	117808.4	
	-318.4	35.1	-32.4	176.9	2160.8	109368.6	
	-318.4	35.0	-28.2	202.5	1995.7	109366.0	
	-262.1	61.1	-48.7	147.9	2970.0	117811.0	
	-262.1	61.0	-44.5	173.5	2804.9	117808.4	
	-318.4	35.1	-48.9	146.8	2982.2	109368.6	
	-318.4	35.0	-44.7	172.4	2817.1	109365.9	
	-262.1	61.0	36.7	-528.5	-2663.3	117810.0	
	-262.1	61.0	40.9	-502.9	-2828.4	117807.3	
	-318.3	35.0	36.5	-529.6	-2651.1	109367.5	
	-318.4	35.0	40.6	-504.0	-2816.2	109364.9	
	-262.1	61.1	20.2	-558.6	-1842.0	117809.9	
	-262.1	61.0	24.4	-533.0	-2007.1	117807.3	
	-318.4	35.1	20.0	-559.8	-1829.8	109367.5	
	-318.4	35.0	24.2	-534.2	-1994.9	109364.9	
69.	-252.2	43.8	-32.2	178.0	4374.6	121432.0	
	-252.3	43.8	-28.0	203.6	3919.8	121429.2	
	-308.5	17.8	-32.4	176.9	4400.8	111193.3	
	-308.5	17.8	-28.2	202.5	3946.0	111190.4	
	-252.2	43.8	-48.7	147.9	6335.3	121432.1	
	-252.3	43.8	-44.5	173.5	5880.5	121429.2	
	-308.5	17.8	-48.9	146.8	6361.6	111193.3	
	-308.5	17.8	-44.7	172.4	5906.8	111190.4	
	-252.2	43.8	36.7	-528.5	-5195.9	121430.8	
	-252.3	43.8	40.9	-502.9	-5650.7	121428.0	
	-308.5	17.8	36.5	-529.6	-5169.7	111192.1	
	-308.5	17.8	40.6	-504.0	-5624.5	111189.2	
	-252.2	43.8	20.2	-558.6	-3235.1	121430.9	
	-252.3	43.8	24.4	-533.0	-3689.9	121428.0	
	-308.5	17.8	20.0	-559.8	-3208.9	111192.1	
	-308.5	17.8	24.2	-534.2	-3663.7	111189.3	
138.	-242.4	26.5	-32.2	178.0	6600.5	123859.2	
	-242.4	26.5	-28.0	203.6	5856.0	123856.1	
	-298.6	0.5	-32.4	176.9	6640.8	111824.1	
	-298.6	0.5	-28.2	202.5	5896.3	111821.0	
	-242.4	26.5	-48.7	147.9	9700.7	123859.3	
	-242.4	26.5	-44.5	173.5	8956.2	123856.2	
	-298.6	0.5	-48.9	146.8	9741.0	111824.2	
	-298.7	0.5	-44.7	172.4	8996.5	111821.1	
	-242.4	26.5	36.7	-528.5	-7728.5	123857.9	
	-242.4	26.5	40.9	-502.9	-8473.0	123854.8	
	-298.6	0.5	36.5	-529.6	-7688.2	111822.8	
	-298.6	0.5	40.6	-504.0	-8432.7	111819.7	
	-242.4	26.5	20.2	-558.6	-4628.3	123858.0	
	-242.4	26.5	24.4	-533.0	-5372.8	123854.9	
	-298.6	0.5	20.0	-559.8	-4588.0	111822.9	
	-298.7	0.5	24.2	-534.2	-5332.5	111819.8	
Asta	88	nod	31	32			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	69.6	-471.0	-2.5	-462.3	3751.4	123843.3	
	69.6	-471.0	0.1	-444.6	3368.5	123840.2	
	80.7	-456.7	-2.5	-463.1	3774.6	111839.2	
	80.8	-456.6	0.1	-445.4	3391.7	111836.1	
	69.6	-471.0	-11.2	-510.0	5463.6	123843.4	
	69.6	-471.0	-8.6	-492.3	5080.7	123840.3	
	80.7	-456.7	-11.1	-510.8	5486.8	111839.3	
	80.8	-456.6	-8.5	-493.1	5103.9	111836.2	
	69.6	-471.0	30.6	-1031.4	-4340.6	123842.0	
	69.6	-471.0	33.2	-1013.7	-4723.4	123839.0	
	80.7	-456.7	30.6	-1032.2	-4317.4	111837.9	
	80.8	-456.6	33.2	-1014.5	-4700.3	111834.8	
	69.6	-471.0	22.0	-1079.1	-2628.3	123842.1	
	69.6	-471.0	24.6	-1061.4	-3011.2	123839.1	
	80.7	-456.7	22.0	-1079.9	-2605.2	111838.0	
	80.8	-456.6	24.6	-1062.2	-2988.1	111834.9	
69.	79.4	-488.3	-2.5	-462.3	3925.2	90692.7	
	79.5	-488.3	0.1	-444.6	3362.8	90692.1	
	90.6	-474.0	-2.5	-463.1	3949.7	79680.0	
	90.7	-473.9	0.1	-445.4	3387.3	79679.4	
	79.4	-488.3	-11.2	-510.0	6232.8	90692.9	
	79.5	-488.3	-8.6	-492.3	5670.4	90692.4	
	90.6	-474.0	-11.1	-510.8	6257.3	79680.2	
	90.6	-473.9	-8.5	-493.1	5694.9	79679.7	
	79.5	-488.3	30.6	-1031.4	-6456.6	90691.7	
	79.5	-488.3	33.2	-1013.7	-7019.0	90691.2	
	90.6	-474.0	30.6	-1032.2	-6432.1	79679.0	
	90.7	-473.9	33.2	-1014.5	-6994.5	79678.4	

138.	79.5	-488.3	22.0	-1079.1	-4149.0	90692.0
	79.5	-488.3	24.6	-1061.4	-4711.4	90691.4
	90.6	-474.0	22.0	-1079.9	-4124.5	79679.2
	90.7	-473.9	24.6	-1062.2	-4686.9	79678.7
	89.3	-505.6	-2.5	-462.3	4099.0	56347.9
	89.4	-505.5	0.1	-444.6	3357.1	56349.8
	100.5	-491.2	-2.5	-463.1	4125.0	46326.5
	100.5	-491.2	0.1	-445.4	3383.1	46328.5
	89.3	-505.6	-11.2	-510.0	7002.0	56348.3
	89.4	-505.5	-8.6	-492.3	6260.1	56350.3
	100.5	-491.2	-11.1	-510.8	7028.0	46327.0
	100.5	-491.2	-8.5	-493.1	6286.1	46328.9
	89.3	-505.6	30.6	-1031.4	-8572.8	56347.1
	89.4	-505.5	33.2	-1013.7	-9314.7	56349.1
	100.5	-491.2	30.6	-1032.2	-8546.8	46325.8
	100.5	-491.2	33.2	-1014.5	-9288.7	46327.7
	89.3	-505.6	22.0	-1079.1	-5669.8	56347.5
	89.4	-505.5	24.6	-1061.4	-6411.7	56349.5
	100.5	-491.2	22.0	-1079.9	-5643.8	46326.2
	100.5	-491.2	24.6	-1062.2	-6385.7	46328.2
Asta PROGR. 0.	89	nod	32	33		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	390.1	-800.2	5.9	1461.5	4869.0	57017.7
	390.0	-800.3	6.4	1463.6	4431.3	57019.7
	461.9	-753.3	5.7	1460.9	4857.8	47003.3
	461.9	-753.3	6.2	1463.0	4420.1	47005.3
	390.1	-800.2	8.7	1393.1	6738.4	57018.1
	390.0	-800.3	9.2	1395.2	6300.7	57020.1
	461.9	-753.3	8.4	1392.4	6727.2	47003.8
	461.8	-753.3	8.9	1394.5	6289.5	47005.8
	390.1	-800.2	-3.2	1094.0	-3177.1	57016.9
	390.1	-800.3	-2.7	1096.2	-3614.8	57018.9
	461.9	-753.3	-3.4	1093.4	-3188.3	47002.6
	461.9	-753.3	-2.9	1095.5	-3626.0	47004.6
	390.1	-800.2	-0.4	1025.6	-1307.7	57017.4
	390.1	-800.3	0.1	1027.7	-1745.4	57019.3
	461.9	-753.3	-0.6	1024.9	-1318.9	47003.0
	461.9	-753.3	-0.1	1027.1	-1756.6	47005.0
	400.0	-817.5	5.9	1461.5	4451.0	1114.1
	399.9	-817.5	6.4	1463.6	3979.1	1114.4
	471.8	-770.6	5.7	1460.9	4475.5	-5657.5
	471.7	-770.6	6.2	1463.0	4003.6	-5657.2
	400.0	-817.5	8.7	1393.1	6130.0	1114.7
	399.9	-817.5	9.2	1395.2	5658.1	1115.0
	471.8	-770.6	8.4	1392.4	6154.5	-5656.9
	471.7	-770.6	8.9	1394.5	5682.6	-5656.6
	400.0	-817.5	-3.2	1094.0	-2969.0	1113.7
	400.0	-817.5	-2.7	1096.2	-3440.9	1114.0
	471.8	-770.6	-3.4	1093.4	-2944.5	-5657.8
	471.8	-770.6	-2.9	1095.5	-3416.4	-5657.6
	400.0	-817.5	-0.4	1025.6	-1290.0	1114.3
	399.9	-817.5	0.1	1027.7	-1761.9	1114.6
	471.8	-770.6	-0.6	1024.9	-1265.5	-5657.2
	471.8	-770.6	-0.1	1027.1	-1737.4	-5657.0
138.	409.9	-834.8	5.9	1461.5	4043.3	-55983.8
	409.8	-834.8	6.4	1463.6	3537.1	-55985.3
	481.7	-787.9	5.7	1460.9	4083.0	-59512.6
	481.6	-787.9	6.2	1463.0	3576.8	-59514.1
	409.8	-834.8	8.7	1393.1	5531.9	-55983.0
	409.8	-834.8	9.2	1395.2	5025.7	-55984.5
	481.7	-787.9	8.4	1392.4	5571.6	-59511.9
	481.6	-787.9	8.9	1394.5	5065.4	-59513.4
	409.9	-834.8	-3.2	1094.0	-2750.6	-55983.6
	409.8	-834.8	-2.7	1096.2	-3256.7	-55985.1
	481.7	-787.9	-3.4	1093.4	-2710.9	-59512.4
	481.6	-787.9	-2.9	1095.5	-3217.0	-59514.0
	409.9	-834.8	-0.4	1025.6	-1262.0	-55982.8
	409.8	-834.8	0.1	1027.7	-1768.1	-55984.3
	481.7	-787.9	-0.6	1024.9	-1222.2	-59511.7
	481.6	-787.9	-0.1	1027.1	-1728.4	-59513.2
Asta PROGR. 0.	90	nod	33	2		
	NORM	TYT	TZZ	TORS	MYT	MZZ
	482.3	-307.7	6.5	111.3	1898.1	-54696.9
	482.4	-307.6	5.2	90.9	1575.6	-54698.4
	561.7	-267.9	6.6	112.4	1924.0	-58245.1
	561.7	-267.9	5.4	91.9	1601.5	-58246.6
	482.3	-307.7	16.6	17.4	2960.6	-54696.2
	482.4	-307.7	15.4	-3.0	2638.1	-54697.7
	561.7	-267.9	16.8	18.5	2986.5	-58244.3
	561.8	-267.9	15.5	-2.0	2664.0	-58245.9
	482.2	-307.6	-22.3	-18.2	-2693.2	-54696.8
	482.3	-307.6	-23.6	-38.7	-3015.7	-54698.3
	561.6	-267.9	-22.2	-17.2	-2667.3	-58244.9
	561.7	-267.8	-23.4	-37.6	-2989.8	-58246.5
	482.3	-307.7	-12.2	-112.2	-1630.8	-54696.0
	482.4	-307.6	-13.4	-132.6	-1953.3	-54697.5
	561.6	-267.9	-12.0	-111.1	-1604.8	-58244.2
	561.7	-267.9	-13.3	-131.6	-1927.3	-58245.7
	73.	492.7	6.5	111.3	1422.6	-77883.3

	492.8	-325.9	5.2	90.9	1192.2	-77882.8
	572.1	-286.2	6.6	112.4	1438.0	-78520.3
	572.2	-286.2	5.4	91.9	1207.6	-78519.8
	492.8	-326.0	16.6	17.4	1743.5	-77883.8
	492.9	-326.0	15.4	-3.0	1513.1	-77883.3
	572.1	-286.2	16.8	18.5	1758.9	-78520.7
	572.2	-286.2	15.5	-2.0	1528.5	-78520.3
	492.7	-326.0	-22.3	-18.2	-1059.5	-77882.3
	492.8	-325.9	-23.6	-38.7	-1289.9	-77881.8
	572.1	-286.2	-22.2	-17.2	-1044.1	-78519.2
	572.1	-286.1	-23.4	-37.6	-1274.5	-78518.7
	492.7	-326.0	-12.2	-112.2	-738.6	-77882.8
	492.8	-325.9	-13.4	-132.6	-969.0	-77882.3
	572.1	-286.2	-12.0	-111.1	-723.2	-78519.7
	572.2	-286.2	-13.3	-131.6	-953.6	-78519.2
146.	503.2	-344.3	6.5	111.3	947.0	-102409.3
	503.3	-344.2	5.2	90.9	808.6	-102406.8
	582.6	-304.5	6.6	112.4	952.1	-100135.0
	582.6	-304.5	5.4	91.9	813.7	-100132.5
	503.2	-344.3	16.6	17.4	526.3	-102411.0
	503.3	-344.3	15.4	-3.0	388.0	-102408.5
	582.6	-304.5	16.8	18.5	531.4	-100136.7
	582.7	-304.5	15.5	-2.0	393.1	-100134.2
	503.2	-344.3	-22.3	-18.2	574.1	-102407.2
	503.2	-344.2	-23.6	-38.7	435.7	-102404.7
	582.5	-304.5	-22.2	-17.2	579.2	-100132.9
	582.6	-304.4	-23.4	-37.6	440.9	-100130.4
	503.2	-344.3	-12.2	-112.2	153.5	-102408.9
	503.3	-344.2	-13.4	-132.6	15.1	-102406.4
	582.5	-304.5	-12.0	-111.1	158.6	-100134.6
	582.6	-304.5	-13.3	-131.6	20.2	-100132.1

SOLLECITAZIONI ASTE

CASO DI CARICO : 5 SLU con SISMAX PRINC COMBINAZIONE

N. 2 CONDIZIONI ANALISI STATICA

1 Peso_proprio_____ + 1.00
2 Permanente_____ + 1.00

N. 2 CASI DI CARICO

3 SISMAX SLU 1.00
2 SISMAX SLU 0.30

1)	+1.00*c001	+1.00*c002	+1.00*c003.001	+0.30*c002.001
2)	+1.00*c001	+1.00*c002	+1.00*c003.001	+0.30*c002.002
3)	+1.00*c001	+1.00*c002	+1.00*c003.001	+0.30*c002.003
4)	+1.00*c001	+1.00*c002	+1.00*c003.001	+0.30*c002.004
5)	+1.00*c001	+1.00*c002	+1.00*c003.002	+0.30*c002.001
6)	+1.00*c001	+1.00*c002	+1.00*c003.002	+0.30*c002.002
7)	+1.00*c001	+1.00*c002	+1.00*c003.002	+0.30*c002.003
8)	+1.00*c001	+1.00*c002	+1.00*c003.002	+0.30*c002.004
9)	+1.00*c001	+1.00*c002	+1.00*c003.003	+0.30*c002.001
10)	+1.00*c001	+1.00*c002	+1.00*c003.003	+0.30*c002.002
11)	+1.00*c001	+1.00*c002	+1.00*c003.003	+0.30*c002.003
12)	+1.00*c001	+1.00*c002	+1.00*c003.003	+0.30*c002.004
13)	+1.00*c001	+1.00*c002	+1.00*c003.004	+0.30*c002.001
14)	+1.00*c001	+1.00*c002	+1.00*c003.004	+0.30*c002.002
15)	+1.00*c001	+1.00*c002	+1.00*c003.004	+0.30*c002.003
16)	+1.00*c001	+1.00*c002	+1.00*c003.004	+0.30*c002.004

Unità di misura: Prog e frecce [cm];NORM,TTY,TZZ [daN]

MZZ,MY,TORS [daNcm]

Asta	17	nod	14	30		
PROGR.	NORM	TTY	TZZ	TORS	MY	MZZ
0.	-1182.0	413.8	11.1	254.0	2502.4	-35659.2
	-1180.7	413.4	11.8	255.1	2675.5	-35537.4
	-1201.2	416.4	7.9	268.7	1813.9	-36432.7
	-1200.0	415.9	8.6	269.8	1987.0	-36311.0
	-1179.7	414.9	8.9	247.2	1959.6	-35880.8
	-1178.4	414.4	9.7	248.3	2132.7	-35759.1
	-1198.9	417.4	5.8	261.9	1271.1	-36654.3
	-1197.7	417.0	6.5	263.0	1444.2	-36532.6
	-1344.1	418.2	13.9	183.1	3488.3	-37219.8
	-1342.8	417.7	14.6	184.2	3661.4	-37098.1
	-1363.3	420.8	10.8	197.7	2799.8	-37993.4
	-1362.1	420.3	11.5	198.8	2972.9	-37871.6
	-1341.8	419.2	11.8	176.2	2945.5	-37441.4
	-1340.5	418.8	12.5	177.3	3118.6	-37319.7
	-1361.0	421.8	8.6	190.9	2257.0	-38215.0
	-1359.8	421.3	9.3	192.0	2430.1	-38093.2
244.	-1182.0	15.9	11.1	254.0	-195.6	18047.6
	-1180.7	15.5	11.8	255.1	-199.4	18055.6
	-1201.2	18.5	7.9	268.7	-113.1	17897.5
	-1200.0	18.0	8.6	269.8	-116.8	17905.5
	-1179.7	17.0	8.9	247.2	-217.9	18081.8

		-1178.4	16.5	9.7	248.3	-221.7	18089.9
		-1198.9	19.6	5.8	261.9	-135.4	17931.7
		-1197.7	19.1	6.5	263.0	-139.2	17939.7
		-1344.1	20.3	13.9	183.1	98.6	17549.2
		-1342.8	19.8	14.6	184.2	94.9	17557.2
		-1363.3	22.9	10.8	197.7	181.2	17399.1
		-1362.1	22.4	11.5	198.8	177.4	17407.1
		-1341.8	21.4	11.8	176.2	76.3	17583.4
		-1340.5	20.9	12.5	177.3	72.5	17591.5
		-1361.0	23.9	8.6	190.9	158.8	17433.3
		-1359.8	23.4	9.3	192.0	155.1	17441.4
487.		-1182.0	-449.5	11.1	254.0	-2893.6	-33380.2
		-1180.7	-450.0	11.8	255.1	-3074.3	-33485.8
		-1201.2	-447.0	7.9	268.7	-2040.0	-32906.9
		-1200.0	-447.4	8.6	269.8	-2220.6	-33012.5
		-1179.7	-448.5	8.9	247.2	-2395.5	-33090.1
		-1178.4	-448.9	9.7	248.3	-2576.1	-33195.8
		-1198.9	-445.9	5.8	261.9	-1541.9	-32616.8
		-1197.7	-446.4	6.5	263.0	-1722.5	-32722.4
		-1344.1	-445.2	13.9	183.1	-3291.1	-32816.3
		-1342.8	-445.6	14.6	184.2	-3471.7	-32922.0
		-1363.3	-442.6	10.8	197.7	-2437.5	-32343.0
		-1362.1	-443.1	11.5	198.8	-2618.1	-32448.7
		-1341.8	-444.1	11.8	176.2	-2792.9	-32526.2
		-1340.5	-444.6	12.5	177.3	-2973.6	-32631.9
		-1361.0	-441.5	8.6	190.9	-1939.3	-32052.9
		-1359.8	-442.0	9.3	192.0	-2120.0	-32158.6
Asta	18	nod	17	31			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-1684.2	340.0	34.0	14.6	6089.8	-27001.0	
	-1681.8	339.4	35.0	16.1	6261.9	-26876.7	
	-1711.1	343.5	30.1	28.9	5449.6	-27798.0	
	-1708.8	342.9	31.0	30.4	5621.7	-27673.8	
	-1681.5	341.4	31.0	9.1	5504.4	-27207.7	
	-1679.1	340.7	31.9	10.5	5676.4	-27083.4	
	-1708.5	344.8	27.0	23.3	4864.2	-28004.7	
	-1706.1	344.2	28.0	24.8	5036.3	-27880.5	
	-1916.9	342.6	35.8	-36.7	6690.9	-27980.4	
	-1914.5	342.0	36.7	-35.2	6862.9	-27856.1	
	-1943.9	346.1	31.8	-22.4	6050.7	-28777.4	
	-1941.5	345.5	32.8	-21.0	6222.8	-28653.2	
	-1914.2	344.0	32.7	-42.2	6105.5	-28187.1	
	-1911.9	343.3	33.7	-40.8	6277.5	-28062.8	
	-1941.2	347.5	28.8	-28.0	5465.3	-28984.1	
184.	-1938.8	346.8	29.8	-26.5	5637.4	-28859.9	
	-1684.2	52.9	34.0	14.6	-151.0	10029.0	
	-1681.8	52.3	35.0	16.1	-154.7	10038.4	
	-1711.1	56.4	30.1	28.9	-69.9	9871.0	
	-1708.8	55.8	31.0	30.4	-73.6	9880.5	
	-1681.5	54.3	31.0	9.1	-178.5	10068.8	
	-1679.1	53.7	31.9	10.5	-182.3	10078.3	
	-1708.5	57.8	27.0	23.3	-97.4	9910.8	
	-1706.1	57.1	28.0	24.8	-101.2	9920.3	
	-1916.9	55.6	35.8	-36.7	124.2	9530.5	
	-1914.5	54.9	36.7	-35.2	120.5	9539.9	
	-1943.9	59.0	31.8	-22.4	205.3	9372.5	
	-1941.5	58.4	32.8	-21.0	201.6	9382.0	
	-1914.2	56.9	32.7	-42.2	96.7	9570.3	
	-1911.9	56.3	33.7	-40.8	92.9	9579.8	
	-1941.2	60.4	28.8	-28.0	177.8	9412.3	
	-1938.8	59.8	29.8	-26.5	174.0	9421.8	
367.	-1684.2	-297.4	34.0	14.6	-6391.3	-11436.1	
	-1681.8	-298.0	35.0	16.1	-6570.8	-11541.4	
	-1711.1	-293.9	30.1	28.9	-5588.9	-10955.0	
	-1708.8	-294.5	31.0	30.4	-5768.4	-11060.3	
	-1681.5	-296.0	31.0	9.1	-5860.9	-11149.8	
	-1679.1	-296.7	31.9	10.5	-6040.5	-11255.1	
	-1708.5	-292.5	27.0	23.3	-5058.6	-10668.7	
	-1706.1	-293.2	28.0	24.8	-5238.1	-10774.0	
	-1916.9	-294.7	35.8	-36.7	-6442.9	-11454.6	
	-1914.5	-295.4	36.7	-35.2	-6622.5	-11559.9	
	-1943.9	-291.3	31.8	-22.4	-5640.5	-10973.5	
	-1941.5	-291.9	32.8	-21.0	-5820.1	-11078.8	
	-1914.2	-293.4	32.7	-42.2	-5912.6	-11168.2	
	-1911.9	-294.0	33.7	-40.8	-6092.1	-11273.5	
	-1941.2	-289.9	28.8	-28.0	-5110.2	-10687.1	
	-1938.8	-290.6	29.8	-26.5	-5289.8	-10792.4	
Asta	20	nod	21	33			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	-1379.6	351.1	174.8	-669.9	10927.7	-18952.6	
	-1380.2	350.4	175.6	-667.4	10974.1	-18896.1	
	-1378.2	355.5	171.0	-662.7	10715.3	-19307.6	
	-1378.8	354.7	171.8	-660.1	10761.7	-19251.0	
	-1376.1	352.5	169.9	-666.8	10594.3	-19015.0	
	-1376.7	351.8	170.7	-664.3	10640.7	-18958.5	
	-1374.7	356.9	166.1	-659.6	10381.9	-19369.9	
	-1375.3	356.1	166.9	-657.1	10428.3	-19313.4	
	-1421.5	334.5	165.2	-637.6	10469.3	-18204.0	
	-1422.1	333.8	166.0	-635.1	10515.7	-18147.4	

		-1420.1	338.8	161.4	-630.4	10256.9	-18558.9
		-1420.6	338.1	162.2	-627.9	10303.3	-18502.4
		-1418.0	335.9	160.4	-634.5	10135.9	-18266.3
		-1418.5	335.2	161.2	-632.0	10182.3	-18209.8
		-1416.6	340.2	156.6	-627.3	9923.5	-18621.3
		-1417.1	339.5	157.4	-624.8	9969.9	-18564.7
64.		-1379.6	273.4	174.8	-669.9	-180.3	1053.1
		-1380.2	272.7	175.6	-667.4	-184.0	1063.6
		-1378.2	277.8	171.0	-662.7	-151.7	973.4
		-1378.8	277.0	171.8	-660.1	-155.4	984.0
		-1376.1	274.8	169.9	-666.8	-204.0	1080.3
		-1376.7	274.1	170.7	-664.3	-207.7	1090.9
		-1374.7	279.2	166.1	-659.6	-175.4	1000.7
		-1375.3	278.5	166.9	-657.1	-179.0	1011.2
		-1421.5	256.8	165.2	-637.6	-31.4	744.8
		-1422.1	256.1	166.0	-635.1	-35.1	755.3
		-1420.1	261.1	161.4	-630.4	-2.8	665.1
		-1420.6	260.4	162.2	-627.9	-6.5	675.7
		-1418.0	258.2	160.4	-634.5	-55.1	772.0
		-1418.5	257.5	161.2	-632.0	-58.8	782.6
		-1416.6	262.5	156.6	-627.3	-26.5	692.4
		-1417.1	261.8	157.4	-624.8	-30.2	703.0
127.		-1379.6	165.5	174.8	-669.9	-11288.3	15160.9
		-1380.2	164.8	175.6	-667.4	-11342.1	15125.5
		-1378.2	169.8	171.0	-662.7	-11018.6	15356.5
		-1378.8	169.1	171.8	-660.1	-11072.4	15321.1
		-1376.1	166.9	169.9	-666.8	-11002.3	15277.7
		-1376.7	166.2	170.7	-664.3	-11056.1	15242.3
		-1374.7	171.3	166.1	-659.6	-10732.6	15473.4
		-1375.3	170.5	166.9	-657.1	-10786.4	15438.0
		-1421.5	148.9	165.2	-637.6	-10532.1	13795.6
		-1422.1	148.2	166.0	-635.1	-10585.9	13760.2
		-1420.1	153.2	161.4	-630.4	-10262.5	13991.3
		-1420.6	152.5	162.2	-627.9	-10316.3	13955.8
		-1418.0	150.3	160.4	-634.5	-10246.1	13912.5
		-1418.5	149.6	161.2	-632.0	-10299.9	13877.1
		-1416.6	154.6	156.6	-627.3	-9976.5	14108.1
		-1417.1	153.9	157.4	-624.8	-10030.3	14072.7
Asta	41	nod	3	14			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.		-4366.9	131.3	25.8	-567.5	688.7	33978.6
		-4354.3	134.7	15.8	-579.3	420.0	33954.0
		-4545.9	63.2	57.1	-888.2	1502.4	34692.9
		-4533.3	66.5	47.1	-899.9	1233.6	34668.2
		-4325.1	142.5	59.4	-528.9	1584.3	33896.7
		-4312.5	145.9	49.3	-540.7	1315.6	33872.1
		-4504.0	74.4	90.7	-849.6	2397.9	34611.0
		-4491.4	77.8	80.6	-861.3	2129.2	34586.3
		-4948.1	-93.4	-78.2	561.5	-2012.4	36338.5
		-4935.5	-90.0	-88.2	549.8	-2281.2	36313.9
		-5127.1	-161.5	-46.9	240.8	-1198.8	37052.7
		-5114.5	-158.1	-56.9	229.1	-1467.5	37028.1
		-4906.3	-82.1	-44.6	600.1	-1116.9	36256.6
		-4893.7	-78.7	-54.7	588.4	-1385.6	36231.9
		-5085.2	-150.3	-13.3	279.4	-303.2	36970.8
		-5072.6	-146.9	-23.4	267.7	-571.9	36946.2
92.		-4337.0	57.4	25.8	-567.5	-1676.3	42994.4
		-4324.4	60.8	15.8	-579.3	-1023.9	43279.4
		-4516.0	-10.7	57.1	-888.2	-3725.7	37473.7
		-4503.4	-7.3	47.1	-899.9	-3073.4	37758.7
		-4295.2	68.7	59.4	-528.9	-3849.9	43941.5
		-4282.6	72.0	49.3	-540.7	-3197.5	44226.5
		-4474.2	0.5	90.7	-849.6	-5899.3	38420.8
		-4461.6	3.9	80.6	-861.3	-5246.9	38705.9
		-4918.3	-167.2	-78.2	561.5	5140.9	24793.4
		-4905.7	-163.9	-88.2	549.8	5793.3	25078.5
		-5097.2	-235.4	-46.9	240.8	3091.5	19272.7
		-5084.6	-232.0	-56.9	229.1	3743.8	19557.8
		-4876.4	-156.0	-44.6	600.1	2967.3	25740.5
		-4863.8	-152.6	-54.7	588.4	3619.7	26025.6
		-5055.4	-224.1	-13.3	279.4	917.9	20219.8
		-5042.8	-220.7	-23.4	267.7	1570.3	20504.9
183.		-4287.0	-66.4	25.8	-567.5	-4041.3	42962.9
		-4274.4	-63.0	15.8	-579.3	-2467.9	43557.7
		-4465.9	-134.6	57.1	-888.2	-8953.9	31207.3
		-4453.3	-131.2	47.1	-899.9	-7380.4	31802.1
		-4245.1	-55.2	59.4	-528.9	-9284.0	44939.0
		-4232.5	-51.8	49.3	-540.7	-7710.5	45533.8
		-4424.1	-123.3	90.7	-849.6	-14196.5	33183.5
		-4411.5	-119.9	80.6	-861.3	-12623.1	33778.2
		-4868.2	-291.1	-78.2	561.5	12294.2	4201.1
		-4855.6	-287.7	-88.2	549.8	13867.7	4795.9
		-5047.2	-359.2	-46.9	240.8	7381.7	-7554.4
		-5034.6	-355.8	-56.9	229.1	8955.2	-6959.7
		-4826.4	-279.8	-44.6	600.1	7051.5	6177.3
		-4813.8	-276.5	-54.7	588.4	8625.0	6772.0
		-5005.3	-348.0	-13.3	279.4	2139.0	-5578.3
		-4992.7	-344.6	-23.4	267.7	3712.5	-4983.5
Asta	42	nod	14	17			

PROGR.	NORM	TTY	TZZ	TORS	MYY	MZZ
0.	-2494.2	-232.5	10.4	-841.7	-3301.0	93628.0
	-2486.3	-230.8	3.3	-852.2	-2089.8	94182.8
	-2588.2	-270.4	25.6	-1367.4	-7223.0	82756.1
	-2580.3	-268.8	18.5	-1377.9	-6011.7	83311.0
	-2468.1	-227.0	33.8	-807.2	-7336.6	95472.2
	-2460.1	-225.4	26.8	-817.8	-6125.4	96027.1
	-2562.0	-265.0	49.1	-1332.9	-11258.6	84600.3
	-2554.1	-263.3	42.0	-1343.4	-10047.3	85155.2
	-2793.6	-356.7	-38.8	987.5	9771.3	57724.2
	-2785.7	-355.0	-45.9	976.9	10982.6	58279.0
	-2887.6	-394.6	-23.6	461.8	5849.4	46852.3
	-2879.7	-393.0	-30.6	451.3	7060.6	47407.2
	-2767.4	-351.2	-15.3	1022.0	5735.7	59568.4
	-2759.5	-349.6	-22.4	1011.4	6947.0	60123.3
	-2861.4	-389.2	-0.1	496.3	1813.8	48696.5
	-2853.5	-387.6	-7.1	485.8	3025.0	49251.4
92.	-2464.4	-306.3	10.4	-841.7	-4248.7	69358.9
	-2456.5	-304.7	3.3	-852.2	-2392.0	70064.3
	-2558.4	-344.3	25.6	-1367.4	-9565.3	55013.8
	-2550.5	-342.6	18.5	-1377.9	-7708.7	55719.2
	-2438.2	-300.9	33.8	-807.2	-10433.1	71700.3
	-2430.3	-299.2	26.8	-817.8	-8576.4	72405.7
	-2532.2	-338.8	49.1	-1332.9	-15749.8	57355.2
	-2524.3	-337.2	42.0	-1343.4	-13893.1	58060.6
	-2763.8	-430.5	-38.8	987.5	13321.7	22087.8
	-2755.9	-428.9	-45.9	976.9	15178.4	22793.1
	-2857.8	-468.5	-23.6	461.8	8005.0	7742.7
	-2849.9	-466.9	-30.6	451.3	9861.7	8448.1
	-2737.6	-425.1	-15.3	1022.0	7137.2	24429.2
	-2729.7	-423.5	-22.4	1011.4	8993.9	25134.6
	-2831.6	-463.1	-0.1	496.3	1820.6	10084.1
	-2823.7	-461.4	-7.1	485.8	3677.3	10789.5
183.	-2414.4	-430.2	10.4	-841.7	-5196.4	36044.5
	-2406.5	-428.5	3.3	-852.2	-2694.2	36900.4
	-2508.4	-468.1	25.6	-1367.4	-11907.7	18226.2
	-2500.5	-466.5	18.5	-1377.9	-9405.6	19082.0
	-2388.3	-424.7	33.8	-807.2	-13529.6	38883.1
	-2380.3	-423.1	26.8	-817.8	-11027.5	39739.0
	-2482.2	-462.7	49.1	-1332.9	-20241.0	21064.8
	-2474.3	-461.0	42.0	-1343.4	-17738.9	21920.7
	-2713.8	-554.4	-38.8	987.5	16872.1	-22594.0
	-2705.9	-552.7	-45.9	976.9	19374.2	-21738.1
	-2807.8	-592.3	-23.6	461.8	10160.7	-40412.3
	-2799.9	-590.7	-30.6	451.3	12662.8	-39556.4
	-2687.6	-549.0	-15.3	1022.0	8538.8	-19755.3
	-2679.7	-547.3	-22.4	1011.4	11040.9	-18899.4
	-2781.6	-586.9	-0.1	496.3	1827.4	-37573.7
	-2773.7	-585.3	-7.1	485.8	4329.6	-36717.8
Asta	43	nod	17	18		
PROGR.	NORM	TTY	TZZ	TORS	MYY	MZZ
0.	-55.8	-208.2	-5.5	-698.6	-4647.7	73830.7
	-55.2	-209.3	-7.3	-703.8	-2518.2	74642.1
	-35.3	-204.9	-5.4	-1257.5	-10455.8	56815.0
	-34.8	-206.0	-7.1	-1262.7	-8326.3	57626.4
	-53.8	-211.8	0.4	-681.2	-11739.3	76523.0
	-53.3	-212.8	-1.3	-686.5	-9609.8	77334.4
	-33.4	-208.4	0.6	-1240.2	-17547.4	59507.3
	-32.9	-209.5	-1.2	-1245.4	-15417.9	60318.6
	20.6	-195.6	-2.7	1190.3	14481.4	17684.6
	21.2	-196.7	-4.4	1185.1	16610.9	18495.9
	41.0	-192.3	-2.5	631.4	8673.3	668.8
	41.6	-193.4	-4.3	626.2	10802.8	1480.2
	22.6	-199.2	3.3	1207.7	7389.8	20376.8
	23.1	-200.3	1.5	1202.5	9519.3	21188.2
	43.0	-195.9	3.4	648.7	1581.7	3361.1
	43.5	-196.9	1.7	643.5	3711.2	4172.5
92.	-25.9	-282.1	-5.5	-698.6	-4142.2	51776.1
	-25.3	-283.1	-7.3	-703.8	-1852.6	52488.6
	-5.5	-278.7	-5.4	-1257.5	-9964.2	35064.6
	-4.9	-279.8	-7.1	-1262.7	-7674.6	35777.1
	-24.0	-285.6	0.4	-681.2	-11777.0	54143.4
	-23.4	-286.7	-1.3	-686.5	-9487.4	54855.9
	-3.6	-282.3	0.6	-1240.2	-17599.0	37431.8
	-3.0	-283.4	-1.2	-1245.4	-15309.4	38144.3
	50.5	-269.5	-2.7	1190.3	14724.7	-3219.1
	51.0	-270.6	-4.4	1185.1	17014.3	-2506.6
	70.9	-266.2	-2.5	631.4	8902.7	-19930.6
	71.4	-267.2	-4.3	626.2	11192.3	-19218.1
	52.4	-273.0	3.3	1207.7	7089.9	-851.9
	53.0	-274.1	1.5	1202.5	9379.5	-139.4
	72.8	-269.7	3.4	648.7	1267.9	-17563.4
	73.4	-270.8	1.7	643.5	3557.5	-16850.9
183.	24.2	-405.9	-5.5	-698.6	-3636.6	20674.4
	24.7	-407.0	-7.3	-703.8	-1186.9	21288.0
	44.6	-402.6	-5.4	-1257.5	-9472.6	4267.1
	45.1	-403.7	-7.1	-1262.7	-7022.9	4880.7
	26.1	-409.5	0.4	-681.2	-11814.6	22716.5
	26.6	-410.5	-1.3	-686.5	-9365.0	23330.2
	46.5	-406.1	0.6	-1240.2	-17650.6	6309.2

		47.1	-407.2	-1.2	-1245.4	-15200.9	6922.9
		100.5	-393.3	-2.7	1190.3	14968.1	-33170.0
		101.1	-394.4	-4.4	1185.1	17417.8	-32556.3
		120.9	-390.0	-2.5	631.4	9132.1	-49577.3
		121.5	-391.1	-4.3	626.2	11581.8	-48963.6
		102.5	-396.9	3.3	1207.7	6790.0	-31127.8
		103.0	-398.0	1.5	1202.5	9239.7	-30514.2
		122.9	-393.6	3.4	648.7	954.0	-47535.1
		123.4	-394.6	1.7	643.5	3403.7	-46921.5
Asta	44	nodl	18	21			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	2285.7	-129.0	-10.7	-419.2	-3389.1	51201.7	
	2278.3	-133.0	-7.0	-417.3	-1237.1	51777.4	
	2394.2	-94.3	-22.6	-833.9	-8605.9	35315.5	
	2386.8	-98.2	-18.9	-832.1	-6453.8	35891.2	
	2261.2	-142.2	-23.3	-423.5	-10575.7	53119.9	
	2253.8	-146.2	-19.6	-421.7	-8423.6	53695.6	
	2369.8	-107.5	-35.2	-838.2	-15792.4	37233.7	
	2362.4	-111.5	-31.5	-836.4	-13640.4	37809.4	
	2628.5	-19.3	20.6	847.0	13193.3	-1191.9	
	2621.1	-23.3	24.3	848.8	15345.3	-616.2	
	2737.1	15.4	8.7	432.2	7976.5	-17078.1	
	2729.7	11.5	12.4	434.1	10128.6	-16502.4	
	2604.1	-32.5	8.1	842.6	6006.7	726.3	
	2596.7	-36.5	11.8	844.5	8158.8	1302.0	
	2712.6	2.2	-3.8	427.9	790.0	-15159.9	
	2705.2	-1.8	-0.1	429.7	2942.0	-14584.2	
92.	2315.5	-202.8	-10.7	-419.2	-2407.3	36400.1	
	2308.1	-206.8	-7.0	-417.3	-594.5	36610.2	
	2424.1	-168.1	-22.6	-833.9	-6534.8	23690.4	
	2416.7	-172.1	-18.9	-832.1	-4722.1	23900.5	
	2291.1	-216.1	-23.3	-423.5	-8447.1	37104.2	
	2283.7	-220.1	-19.6	-421.7	-6634.3	37314.3	
	2399.6	-181.4	-35.2	-838.2	-12574.7	24394.5	
	2392.2	-185.4	-31.5	-836.4	-10761.9	24604.6	
	2658.4	-93.1	20.6	847.0	11308.5	-5953.8	
	2651.0	-97.1	24.3	848.8	13121.3	-5743.7	
	2766.9	-58.4	8.7	432.2	7180.9	-18663.5	
	2759.5	-62.4	12.4	434.1	8993.7	-18453.4	
	2634.0	-106.4	8.1	842.6	5268.6	-5249.7	
	2626.6	-110.4	11.8	844.5	7081.4	-5039.6	
	2742.5	-71.7	-3.8	427.9	1141.1	-17959.4	
	2735.1	-75.7	-0.1	429.7	2953.8	-17749.3	
183.	2365.6	-326.7	-10.7	-419.2	-1425.4	12551.4	
	2358.2	-330.7	-7.0	-417.3	48.1	12395.9	
	2474.1	-292.0	-22.6	-833.9	-4463.8	3018.2	
	2466.7	-295.9	-18.9	-832.1	-2990.3	2862.6	
	2341.1	-339.9	-23.3	-423.5	-6318.5	12041.3	
	2333.8	-343.9	-19.6	-421.7	-4845.0	11885.8	
	2449.7	-305.2	-35.2	-838.2	-9357.0	2508.1	
	2442.3	-309.2	-31.5	-836.4	-7883.5	2352.5	
	2708.5	-217.0	20.6	847.0	9423.7	-19762.8	
	2701.1	-221.0	24.3	848.8	10897.3	-19918.3	
	2817.0	-182.3	8.7	432.2	6385.3	-29296.0	
	2809.6	-186.3	12.4	434.1	7858.8	-29451.6	
	2684.0	-230.2	8.1	842.6	4530.6	-20272.9	
	2676.6	-234.2	11.8	844.5	6004.1	-20428.4	
	2792.5	-195.5	-3.8	427.9	1492.1	-29806.1	
	2785.2	-199.5	-0.1	429.7	2965.6	-29961.7	
Asta	45	nodl	21	2			
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ	
0.	4209.0	-311.0	-5.6	608.3	-1501.0	37528.4	
	4196.3	-316.8	1.2	615.0	-183.8	37348.7	
	4343.6	-266.9	-19.5	470.3	-4299.8	28158.2	
	4331.0	-272.7	-12.7	477.0	-2982.6	27978.5	
	4166.8	-330.3	-28.2	587.2	-5873.6	36937.5	
	4154.1	-336.2	-21.4	593.9	-4556.4	36757.8	
	4301.4	-286.3	-42.1	449.2	-8672.4	27567.3	
	4288.7	-292.1	-35.3	455.9	-7355.2	27387.6	
	4640.4	-162.7	42.8	823.4	8498.5	5492.7	
	4627.8	-168.5	49.7	830.1	9815.7	5313.0	
	4775.1	-118.6	28.9	685.4	5699.7	-3877.5	
	4762.4	-124.4	35.8	692.1	7016.9	-4057.2	
	4598.2	-182.1	20.2	802.3	4125.8	4901.8	
	4585.5	-187.9	27.1	809.0	5443.0	4722.2	
	4732.8	-138.0	6.3	664.3	1327.0	-4468.3	
	4720.1	-143.8	13.2	671.0	2644.2	-4648.0	
97.	4241.3	-390.8	-5.6	608.3	-956.5	3971.7	
	4228.6	-396.6	1.2	615.0	-303.1	3229.0	
	4375.9	-346.7	-19.5	470.3	-2408.1	-1124.6	
	4363.2	-352.5	-12.7	477.0	-1754.8	-1867.2	
	4199.0	-410.1	-28.2	587.2	-3136.8	1503.4	
	4186.3	-415.9	-21.4	593.9	-2483.4	760.8	
	4333.6	-366.0	-42.1	449.2	-4588.4	-3592.8	
	4320.9	-371.9	-35.3	455.9	-3935.1	-4335.4	
	4672.7	-242.5	42.8	823.4	4347.2	-13689.9	
	4660.0	-248.3	49.7	830.1	5000.6	-14432.6	
	4807.3	-198.4	28.9	685.4	2895.6	-18786.1	
	4794.6	-204.2	35.8	692.1	3548.9	-19528.8	

194.	4630.4	-261.8	20.2	802.3	2167.0	-16158.1
	4617.7	-267.7	27.1	809.0	2820.3	-16900.8
	4765.0	-217.7	6.3	664.3	715.3	-21254.4
	4752.4	-223.6	13.2	671.0	1368.7	-21997.0
	4296.1	-526.6	-5.6	608.3	-412.0	-40035.1
	4283.4	-532.4	1.2	615.0	-422.5	-41340.7
	4430.7	-482.5	-19.5	470.3	-516.5	-40857.4
	4418.1	-488.3	-12.7	477.0	-527.0	-42163.1
	4253.9	-546.0	-28.2	587.2	-399.9	-44380.7
	4241.2	-551.8	-21.4	593.9	-410.4	-45686.3
	4388.5	-501.9	-42.1	449.2	-504.4	-45203.1
	4375.8	-507.7	-35.3	455.9	-515.0	-46508.7
	4727.5	-378.3	42.8	823.4	196.0	-43323.6
	4714.9	-384.1	49.7	830.1	185.5	-44629.2
	4862.1	-334.2	28.9	685.4	91.5	-44145.9
	4849.5	-340.0	35.8	692.1	81.0	-45451.6
	4685.3	-397.7	20.2	802.3	208.1	-47669.2
	4672.6	-403.5	27.1	809.0	197.6	-48974.8
	4819.9	-353.6	6.3	664.3	103.6	-48491.6
	4807.2	-359.4	13.2	671.0	93.1	-49797.2
Asta	51	nod	2	20		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	4329.6	422.1	44.3	-516.5	-730.6	-48607.6
	4341.3	416.4	51.0	-510.0	-734.7	-47315.4
	4198.9	465.9	30.9	-654.8	-584.9	-47761.8
	4210.5	460.2	37.6	-648.3	-589.0	-46469.6
	4372.7	403.1	22.0	-535.9	-710.9	-44314.9
	4384.3	397.5	28.7	-529.5	-715.0	-43022.6
	4241.9	447.0	8.6	-674.2	-565.2	-43469.1
	4253.6	441.3	15.2	-667.8	-569.4	-42176.8
	4754.6	276.5	0.2	-723.7	-34.5	-52355.0
	4766.2	270.8	6.9	-717.3	-38.7	-51062.8
	4623.8	320.3	-13.2	-862.0	111.1	-51509.2
	4635.5	314.7	-6.5	-855.6	107.0	-50216.9
	4797.6	257.6	-22.1	-743.2	-14.9	-48062.3
	4809.3	251.9	-15.4	-736.8	-19.0	-46770.0
	4666.9	301.4	-35.5	-881.5	130.8	-47216.4
	4678.5	295.7	-28.8	-875.0	126.7	-45924.2
97.	4291.7	328.3	44.3	-516.5	-5025.7	-12481.6
	4303.4	322.6	51.0	-510.0	-5678.5	-11738.5
	4161.0	372.1	30.9	-654.8	-3576.8	-7388.9
	4172.6	366.5	37.6	-648.3	-4229.7	-6645.9
	4334.8	309.4	22.0	-535.9	-2842.6	-10023.8
	4346.5	303.7	28.7	-529.5	-3495.4	-9280.7
	4204.0	353.2	8.6	-674.2	-1393.7	-4931.1
	4215.7	347.5	15.2	-667.8	-2046.6	-4188.0
	4716.7	182.7	0.2	-723.7	-57.1	-30330.9
	4728.3	177.1	6.9	-717.3	-709.9	-29587.8
	4585.9	226.6	-13.2	-862.0	1391.7	-25238.3
	4597.6	220.9	-6.5	-855.6	738.9	-24495.2
	4759.7	163.8	-22.1	-743.2	2126.0	-27873.1
	4771.4	158.1	-15.4	-736.8	1473.1	-27130.0
	4629.0	207.6	-35.5	-881.5	3574.8	-22780.4
194.	4640.6	202.0	-28.8	-875.0	2922.0	-22037.4
	4265.2	262.5	44.3	-516.5	-9320.8	15916.4
	4276.8	256.9	51.0	-510.0	-10622.3	16110.3
	4134.4	306.4	30.9	-654.8	-6568.8	25255.9
	4146.1	300.7	37.6	-648.3	-7870.3	25449.8
	4308.2	243.6	22.0	-535.9	-4974.2	16539.3
	4319.9	237.9	28.7	-529.5	-6275.8	16733.2
	4177.5	287.4	8.6	-674.2	-2222.2	25878.8
	4189.1	281.8	15.2	-667.8	-3523.8	26072.7
	4690.1	117.0	0.2	-723.7	-79.6	-16035.7
	4701.8	111.3	6.9	-717.3	-1381.2	-15841.8
	4559.3	160.8	-13.2	-862.0	2672.4	-6696.1
	4571.0	155.2	-6.5	-855.6	1370.8	-6502.3
	4733.2	98.1	-22.1	-743.2	4266.9	-15412.8
	4744.8	92.4	-15.4	-736.8	2965.3	-15218.9
	4602.4	141.9	-35.5	-881.5	7018.9	-6073.2
	4614.1	136.2	-28.8	-875.0	5717.3	-5879.4
Asta	52	nod	20	19		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	2447.0	347.5	28.3	-723.3	-9661.3	-8188.3
	2454.1	343.4	32.1	-721.4	-11118.0	-8018.0
	2340.6	382.5	15.9	-1137.4	-6675.1	1312.9
	2347.7	378.4	19.7	-1135.5	-8131.7	1483.2
	2474.4	333.9	15.5	-727.7	-4796.7	-7640.5
	2481.4	329.8	19.3	-725.7	-6253.3	-7470.2
	2368.0	369.0	3.1	-1141.8	-1810.4	1860.7
	2375.0	364.9	7.0	-1139.8	-3267.1	2030.9
	2792.5	237.1	-6.1	-1994.6	348.8	-40403.5
	2799.5	233.0	-2.2	-1992.6	-1107.8	-40233.2
	2686.1	272.2	-18.5	-2408.6	3335.1	-30902.3
	2693.1	268.1	-14.6	-2406.7	1878.5	-30732.0
	2819.8	223.6	-18.9	-1998.9	5213.5	-39855.7
	2826.9	219.5	-15.0	-1997.0	3756.9	-39685.4
	2713.4	258.7	-31.3	-2413.0	8199.8	-30354.5
	2720.5	254.6	-27.4	-2411.0	6743.1	-30184.3
92.	2412.1	261.1	28.3	-723.3	-12248.7	19470.2

	2419.1	257.0	32.1	-721.4	-14059.0	19264.2
	2305.7	296.2	15.9	-1137.4	-8128.2	32182.1
	2312.8	292.1	19.7	-1135.5	-9938.5	31976.1
	2439.5	247.6	15.5	-727.7	-6213.9	18777.5
	2446.5	243.4	19.3	-725.7	-8024.2	18571.5
	2333.1	282.6	3.1	-1141.8	-2093.5	31489.3
	2340.1	278.5	7.0	-1139.8	-3903.7	31283.4
	2757.6	150.8	-6.1	-1994.6	906.6	-22841.7
	2764.6	146.7	-2.2	-1992.6	-903.7	-23047.6
	2651.2	185.9	-18.5	-2408.6	5027.0	-10129.8
	2658.2	181.8	-14.6	-2406.7	3216.7	-10335.7
	2784.9	137.2	-18.9	-1998.9	6941.3	-23534.4
	2792.0	133.1	-15.0	-1997.0	5131.0	-23740.4
	2678.5	172.3	-31.3	-2413.0	11061.8	-10822.5
	2685.6	168.2	-27.4	-2411.0	9251.5	-11028.5
183.	2387.3	199.7	28.3	-723.3	-14836.1	40368.5
	2394.3	195.6	32.1	-721.4	-17000.1	39786.3
	2280.9	234.8	15.9	-1137.4	-9581.4	56291.0
	2288.0	230.7	19.7	-1135.5	-11745.3	55708.9
	2414.6	186.2	15.5	-727.7	-7631.2	38435.2
	2421.7	182.1	19.3	-725.7	-9795.2	37853.1
	2308.3	221.3	3.1	-1141.8	-2376.5	54357.8
	2315.3	217.2	7.0	-1139.8	-4540.4	53775.6
	2732.8	89.4	-6.1	-1994.6	1464.3	-12040.0
	2739.8	85.3	-2.2	-1992.6	-699.7	-12622.2
	2626.4	124.5	-18.5	-2408.6	6719.0	3882.5
	2633.4	120.4	-14.6	-2406.7	4555.0	3300.3
	2760.1	75.9	-18.9	-1998.9	8669.2	-13973.3
	2767.2	71.8	-15.0	-1997.0	6505.2	-14555.5
	2653.7	110.9	-31.3	-2413.0	13923.9	1949.2
	2660.8	106.8	-27.4	-2411.0	11759.9	1367.1
Asta	53	nod1	19	16		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	35.4	420.4	-4.4	2328.2	-17751.9	5348.1
	34.1	419.4	-6.2	2323.1	-20213.2	4728.0
	18.7	423.5	-4.0	1769.6	-11878.6	21791.8
	17.5	422.4	-5.8	1764.4	-14339.9	21171.6
	35.5	416.9	1.7	2345.5	-9555.8	3292.6
	34.2	415.9	-0.1	2340.4	-12017.2	2672.4
	18.9	420.0	2.1	1786.9	-3682.5	19736.2
	17.6	418.9	0.2	1781.7	-6143.9	19116.1
	109.0	409.4	-5.1	435.6	478.3	-48503.5
	107.8	408.4	-7.0	430.5	-1983.1	-49123.7
	92.4	412.5	-4.8	-123.0	6351.6	-32059.9
	91.1	411.4	-6.6	-128.2	3890.2	-32680.0
	109.1	405.9	0.9	452.9	8674.3	-50559.1
	107.9	404.9	-0.9	447.8	6212.9	-51179.2
	92.5	409.0	1.3	-105.7	14547.6	-34115.5
	91.3	407.9	-0.5	-110.9	12086.2	-34735.6
92.	-14.7	296.6	-4.4	2328.2	-17352.5	37778.0
	-15.9	295.5	-6.2	2323.1	-19646.5	37061.4
	-31.3	299.6	-4.0	1769.6	-11513.5	54499.1
	-32.6	298.6	-5.8	1764.4	-13807.5	53782.5
	-14.6	293.1	1.7	2345.5	-9710.5	35403.8
	-15.8	292.0	-0.1	2340.4	-12004.6	34687.2
	-31.2	296.1	2.1	1786.9	-3871.5	52124.9
	-32.4	295.1	0.2	1781.7	-6165.6	51408.2
	58.9	285.6	-5.1	435.6	947.9	-17080.4
	57.7	284.5	-7.0	430.5	-1346.2	-17797.0
	42.3	288.6	-4.8	-123.0	6786.9	-359.3
	41.1	287.6	-6.6	-128.2	4492.8	-1076.0
	59.1	282.1	0.9	452.9	8589.8	-19454.6
	57.8	281.0	-0.9	447.8	6295.7	-20171.3
	42.5	285.1	1.3	-105.7	14428.8	-2733.6
	41.2	284.1	-0.5	-110.9	12134.7	-3450.2
183.	-44.6	222.7	-4.4	2328.2	-16953.1	61160.7
	-45.8	221.7	-6.2	2323.1	-19079.8	60347.6
	-61.2	225.7	-4.0	1769.6	-11148.4	78159.2
	-62.4	224.7	-5.8	1764.4	-13275.1	77346.1
	-44.4	219.2	1.7	2345.5	-9865.2	58467.8
	-45.7	218.2	-0.1	2340.4	-11992.0	57654.7
	-61.0	222.3	2.1	1786.9	-4060.5	75466.4
	-62.3	221.2	0.2	1781.7	-6187.3	74653.2
	29.1	211.7	-5.1	435.6	1417.5	5295.5
	27.8	210.7	-7.0	430.5	-709.3	4482.4
	12.5	214.7	-4.8	-123.0	7222.2	22294.1
	11.2	213.7	-6.6	-128.2	5095.4	21480.9
	29.2	208.2	0.9	452.9	8505.3	2602.7
	28.0	207.2	-0.9	447.8	6378.6	1789.5
	12.6	211.3	1.3	-105.7	14310.0	19601.2
	11.4	210.2	-0.5	-110.9	12183.3	18788.1
Asta	54	nod1	16	15		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2468.2	463.2	-44.9	2056.8	-19676.3	22454.2
	-2476.7	464.9	-51.9	2046.2	-22175.9	21596.4
	-2371.1	425.3	-29.6	1531.1	-12967.4	40254.9
	-2379.7	426.9	-36.7	1520.5	-15467.0	39397.1
	-2492.1	468.7	-21.4	2090.9	-11346.6	19615.9
	-2500.7	470.3	-28.4	2080.4	-13846.2	18758.1

		-2395.1	430.7	-6.2	1565.2	-4637.8	37416.6
		-2403.7	432.4	-13.2	1554.7	-7137.4	36558.7
		-2765.2	587.0	2.2	224.2	1529.7	-35893.2
		-2773.8	588.7	-4.9	213.7	-969.9	-36751.0
		-2668.2	549.1	17.4	-301.5	8238.6	-18092.5
		-2676.7	550.7	10.3	-312.1	5739.0	-18950.4
		-2789.2	592.5	25.6	258.3	9859.4	-38731.5
		-2797.7	594.1	18.6	247.8	7359.8	-39589.3
		-2692.1	554.5	40.9	-267.4	16568.3	-20930.9
		-2700.7	556.2	33.8	-277.9	14068.7	-21788.7
92.		-2518.2	339.4	-44.9	2056.8	-15570.1	58794.9
		-2526.7	341.0	-51.9	2046.2	-17425.0	58088.0
		-2421.1	301.4	-29.6	1531.1	-10255.4	73121.9
		-2429.7	303.1	-36.7	1520.5	-12110.3	72415.1
		-2542.1	344.8	-21.4	2090.9	-9389.1	56456.0
		-2550.7	346.5	-28.4	2080.4	-11244.0	55749.1
		-2445.1	306.9	-6.2	1565.2	-4074.5	70783.0
		-2453.6	308.5	-13.2	1554.7	-5929.4	70076.2
		-2815.2	463.2	2.2	224.2	1332.4	11776.2
		-2823.8	464.8	-4.9	213.7	-522.5	11069.3
		-2718.2	425.2	17.4	-301.5	6647.0	26103.2
		-2726.7	426.9	10.3	-312.1	4792.1	25396.4
		-2839.2	468.7	25.6	258.3	7513.4	9437.3
		-2847.7	470.3	18.6	247.8	5658.5	8730.4
		-2742.1	430.7	40.9	-267.4	12828.0	23764.3
183.		-2750.7	432.3	33.8	-277.9	10973.1	23057.5
		-2548.0	265.5	-44.9	2056.8	-11463.8	86090.2
		-2556.5	267.2	-51.9	2046.2	-12674.0	85534.4
		-2450.9	227.6	-29.6	1531.1	-7543.5	96943.6
		-2459.5	229.2	-36.7	1520.5	-8753.7	96387.8
		-2571.9	271.0	-21.4	2090.9	-7431.6	84250.7
		-2580.5	272.6	-28.4	2080.4	-8641.8	83694.9
		-2474.9	233.0	-6.2	1565.2	-3511.2	95104.1
		-2483.5	234.7	-13.2	1554.7	-4721.4	94548.3
		-2845.0	389.3	2.2	224.2	1135.1	50400.2
		-2853.6	391.0	-4.9	213.7	-75.1	49844.4
		-2748.0	351.4	17.4	-301.5	5055.5	61253.6
		-2756.5	353.0	10.3	-312.1	3845.3	60697.8
		-2869.0	394.8	25.6	258.3	5167.3	48560.7
		-2877.5	396.4	18.6	247.8	3957.1	48004.9
		-2771.9	356.8	40.9	-267.4	9087.7	59414.1
		-2780.5	358.5	33.8	-277.9	7877.5	58858.4
Asta	55	nod	15	5			
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ	
0.		-4396.6	117.2	-92.5	1273.6	-14449.3	34566.0
		-4409.8	120.6	-102.6	1261.9	-16021.7	33970.2
		-4214.8	49.2	-61.3	952.8	-9537.8	46302.2
		-4228.1	52.6	-71.3	941.1	-11110.2	45706.4
		-4436.1	128.4	-59.0	1311.9	-9210.2	32595.1
		-4449.3	131.8	-69.1	1300.2	-10782.6	31999.3
		-4254.3	60.4	-27.7	991.1	-4298.7	44331.4
		-4267.6	63.8	-37.8	979.3	-5871.1	43735.6
		-4973.2	340.6	7.8	141.0	1298.7	-3970.2
		-4986.5	344.0	-2.3	129.2	-273.7	-4566.0
		-4791.5	272.6	39.1	-179.9	6210.2	7766.0
		-4804.7	276.0	29.0	-191.6	4637.8	7170.2
		-5012.7	351.8	41.3	179.2	6537.8	-5941.0
		-5026.0	355.2	31.2	167.5	4965.4	-6536.9
		-4831.0	283.8	72.6	-141.6	11449.3	5795.2
		-4844.3	287.2	62.5	-153.4	9876.9	5199.4
92.		-4446.6	-6.6	-92.5	1273.6	-5980.6	39244.9
		-4459.9	-3.2	-102.6	1261.9	-6632.4	38959.4
		-4264.9	-74.6	-61.3	952.8	-3931.8	44756.2
		-4278.2	-71.3	-71.3	941.1	-4583.7	44470.7
		-4486.1	4.6	-59.0	1311.9	-3808.7	38300.4
		-4499.4	8.0	-69.1	1300.2	-4460.6	38014.9
		-4304.4	-63.4	-27.7	991.1	-1760.0	43811.7
		-4317.7	-60.0	-37.8	979.3	-2411.9	43526.2
		-5023.3	216.7	7.8	141.0	586.8	21152.9
		-5036.5	220.1	-2.3	129.2	-65.1	20867.4
		-4841.5	148.7	39.1	-179.9	2635.5	26664.2
		-4854.8	152.1	29.0	-191.6	1983.6	26378.6
		-5062.8	228.0	41.3	179.2	2758.6	20208.4
		-5076.0	231.3	31.2	167.5	2106.8	19922.8
		-4881.1	159.9	72.6	-141.6	4807.3	25719.7
		-4894.3	163.3	62.5	-153.4	4155.5	25434.1
183.		-4476.5	-80.5	-92.5	1273.6	2488.2	34876.7
		-4489.8	-77.1	-102.6	1261.9	2756.9	34901.5
		-4294.8	-148.5	-61.3	952.8	1674.1	34163.1
		-4308.0	-145.1	-71.3	941.1	1942.8	34187.8
		-4516.0	-69.3	-59.0	1311.9	1592.8	34958.5
		-4529.3	-65.9	-69.1	1300.2	1861.5	34983.3
		-4334.3	-137.3	-27.7	991.1	778.7	34244.9
		-4347.5	-133.9	-37.8	979.3	1047.4	34269.6
		-5053.1	142.9	7.8	141.0	-125.1	37228.8
		-5066.4	146.3	-2.3	129.2	143.5	37253.5
		-4871.4	74.9	39.1	-179.9	-939.2	36515.2
		-4884.7	78.3	29.0	-191.6	-670.5	36539.9
		-5092.6	154.1	41.3	179.2	-1020.6	37310.6
		-5105.9	157.5	31.2	167.5	-751.9	37335.4

	-4910.9	86.1	72.6	-141.6	-1834.6	36597.0
	-4924.2	89.5	62.5	-153.4	-1565.9	36621.7
Asta	64	nod	30	15		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1198.4	445.8	-5.8	-267.7	-1597.1	-32504.7
	-1199.7	445.3	-5.1	-266.6	-1416.4	-32398.9
	-1179.0	448.3	-9.0	-253.0	-2451.1	-32977.7
	-1180.2	447.9	-8.2	-251.9	-2270.4	-32872.0
	-1200.6	446.8	-7.9	-274.5	-2095.0	-32795.3
	-1201.9	446.4	-7.2	-273.4	-1914.3	-32689.6
	-1181.2	449.4	-11.1	-259.8	-2949.0	-33268.4
	-1182.4	448.9	-10.4	-258.7	-2768.3	-33162.6
	-1360.2	441.3	-8.4	-196.1	-1947.2	-31913.7
	-1361.4	440.9	-7.7	-195.0	-1766.6	-31807.9
	-1340.7	443.9	-11.6	-181.4	-2801.2	-32386.7
	-1342.0	443.4	-10.9	-180.3	-2620.5	-32280.9
	-1362.4	442.4	-10.6	-202.8	-2445.1	-32204.3
	-1363.6	441.9	-9.8	-201.8	-2264.5	-32098.6
	-1342.9	444.9	-13.7	-188.2	-3299.1	-32677.3
	-1344.2	444.5	-13.0	-187.1	-3118.5	-32571.6
243.	-1198.4	-19.6	-5.8	-267.7	-186.0	18013.7
	-1199.7	-20.1	-5.1	-266.6	-182.2	18005.6
	-1179.0	-17.0	-9.0	-253.0	-268.5	18163.7
	-1180.2	-17.5	-8.2	-251.9	-264.7	18155.7
	-1200.6	-18.5	-7.9	-274.5	-163.6	17979.3
	-1201.9	-19.0	-7.2	-273.4	-159.9	17971.3
	-1181.2	-16.0	-11.1	-259.8	-246.1	18129.4
	-1182.4	-16.4	-10.4	-258.7	-242.4	18121.3
	-1360.2	-24.0	-8.4	-196.1	106.4	17518.1
	-1361.4	-24.5	-7.7	-195.0	110.1	17510.0
	-1340.7	-21.5	-11.6	-181.4	23.8	17668.1
	-1342.0	-22.0	-10.9	-180.3	27.6	17660.1
	-1362.4	-23.0	-10.6	-202.8	128.7	17483.7
	-1363.6	-23.5	-9.8	-201.8	132.5	17475.7
	-1342.9	-20.4	-13.7	-188.2	46.2	17633.8
	-1344.2	-20.9	-13.0	-187.1	50.0	17625.7
487.	-1198.4	-417.4	-5.8	-267.7	1225.1	-36559.4
	-1199.7	-417.9	-5.1	-266.6	1052.0	-36681.2
	-1179.0	-414.8	-9.0	-253.0	1914.1	-35786.2
	-1180.2	-415.3	-8.2	-251.9	1741.0	-35908.0
	-1200.6	-416.3	-7.9	-274.5	1767.8	-36337.4
	-1201.9	-416.8	-7.2	-273.4	1594.7	-36459.2
	-1181.2	-413.8	-11.1	-259.8	2456.7	-35564.3
	-1182.4	-414.2	-10.4	-258.7	2283.6	-35686.1
	-1360.2	-421.9	-8.4	-196.1	2159.9	-38141.5
	-1361.4	-422.3	-7.7	-195.0	1986.8	-38263.4
	-1340.7	-419.3	-11.6	-181.4	2848.9	-37368.4
	-1342.0	-419.8	-10.9	-180.3	2675.7	-37490.2
	-1362.4	-420.8	-10.6	-202.8	2702.6	-37919.6
	-1363.6	-421.3	-9.8	-201.8	2529.4	-38041.4
	-1342.9	-418.2	-13.7	-188.2	3391.5	-37146.5
	-1344.2	-418.7	-13.0	-187.1	3218.4	-37268.3
Asta	65	nod	31	16		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1691.2	291.1	-27.7	-37.3	-5328.9	-10155.3
	-1693.5	290.5	-26.7	-35.9	-5149.3	-10049.9
	-1664.6	294.6	-31.6	-23.0	-6131.9	-10636.3
	-1666.9	294.0	-30.6	-21.6	-5952.3	-10530.9
	-1693.9	292.5	-30.7	-42.9	-5858.8	-10442.9
	-1696.1	291.8	-29.7	-41.4	-5679.1	-10337.5
	-1667.3	295.9	-34.6	-28.6	-6661.8	-10923.9
	-1669.5	295.3	-33.7	-27.1	-6482.2	-10818.5
	-1923.3	288.4	-29.2	14.5	-5340.4	-10146.0
	-1925.6	287.7	-28.2	15.9	-5160.8	-10040.6
	-1896.7	291.9	-33.1	28.8	-6143.4	-10627.0
	-1899.0	291.2	-32.2	30.2	-5963.8	-10521.6
	-1926.0	289.7	-32.2	8.9	-5870.3	-10433.6
	-1928.3	289.1	-31.3	10.4	-5690.7	-10328.2
	-1899.4	293.2	-36.2	23.2	-6673.3	-10914.6
	-1901.6	292.6	-35.2	24.7	-6493.7	-10809.2
184.	-1691.2	-59.1	-27.7	-37.3	-256.4	10166.4
	-1693.5	-59.7	-26.7	-35.9	-252.7	10157.0
	-1664.6	-55.6	-31.6	-23.0	-337.5	10324.5
	-1666.9	-56.2	-30.6	-21.6	-333.7	10315.0
	-1693.9	-57.7	-30.7	-42.9	-228.8	10126.4
	-1696.1	-58.4	-29.7	-41.4	-225.0	10116.9
	-1667.3	-54.3	-34.6	-28.6	-309.8	10284.5
	-1669.5	-54.9	-33.7	-27.1	-306.1	10275.0
	-1923.3	-61.8	-29.2	14.5	17.0	9670.4
	-1925.6	-62.5	-28.2	15.9	20.7	9661.0
	-1896.7	-58.4	-33.1	28.8	-64.0	9828.5
	-1899.0	-59.0	-32.2	30.2	-60.3	9819.0
	-1926.0	-60.5	-32.2	8.9	44.6	9630.4
	-1928.3	-61.1	-31.3	10.4	48.4	9620.9
	-1899.4	-57.0	-36.2	23.2	-36.4	9788.5
	-1901.6	-57.6	-35.2	24.7	-32.7	9779.0
367.	-1691.2	-346.1	-27.7	-37.3	4819.3	-27976.5
	-1693.5	-346.7	-26.7	-35.9	4647.1	-28100.8
	-1664.6	-342.6	-31.6	-23.0	5460.2	-27179.4

		-1666.9	-343.2	-30.6	-21.6	5288.1	-27303.7
		-1693.9	-344.7	-30.7	-42.9	5404.4	-27768.9
		-1696.1	-345.4	-29.7	-41.4	5232.3	-27893.3
		-1667.3	-341.3	-34.6	-28.6	6045.4	-26971.8
		-1669.5	-341.9	-33.7	-27.1	5873.3	-27096.2
		-1923.3	-348.8	-29.2	14.5	5371.1	-28975.7
		-1925.6	-349.5	-28.2	15.9	5199.0	-29100.1
		-1896.7	-345.4	-33.1	28.8	6012.1	-28178.6
		-1899.0	-346.0	-32.2	30.2	5840.0	-28303.0
		-1926.0	-347.5	-32.2	8.9	5956.3	-28768.2
		-1928.3	-348.1	-31.3	10.4	5784.2	-28892.5
		-1899.4	-344.0	-36.2	23.2	6597.3	-27971.1
		-1901.6	-344.6	-35.2	24.7	6425.1	-28095.4
Asta	66	nod	32	19			
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ	
0.		-1683.8	287.7	-75.1	309.8	-9781.5	2083.8
		-1686.5	287.0	-74.1	311.7	-9648.5	2163.5
		-1661.1	291.8	-79.4	321.2	-10369.1	1713.1
		-1663.9	291.0	-78.3	323.1	-10236.0	1792.8
		-1687.5	289.3	-79.0	307.6	-10234.3	1854.0
		-1690.2	288.5	-77.9	309.6	-10101.2	1933.6
		-1664.8	293.3	-83.3	319.1	-10821.8	1483.3
		-1667.6	292.6	-82.2	321.0	-10688.8	1562.9
		-1850.3	290.7	-73.1	321.6	-9313.6	1295.6
		-1853.0	289.9	-72.0	323.5	-9180.6	1375.3
		-1827.6	294.7	-77.3	333.0	-9901.2	924.9
		-1830.4	294.0	-76.3	334.9	-9768.1	1004.6
		-1854.0	292.2	-77.0	319.4	-9766.4	1065.8
		-1856.7	291.5	-75.9	321.4	-9633.3	1145.4
		-1831.3	296.3	-81.2	330.9	-10353.9	695.0
		-1834.0	295.6	-80.2	332.8	-10220.9	774.7
124.		-1683.8	-159.2	-75.1	309.8	-506.1	7685.3
		-1686.5	-160.0	-74.1	311.7	-502.4	7674.9
		-1661.1	-155.2	-79.4	321.2	-567.7	7815.8
		-1663.9	-155.9	-78.3	323.1	-564.0	7805.4
		-1687.5	-157.7	-79.0	307.6	-478.9	7648.2
		-1690.2	-158.4	-77.9	309.6	-475.1	7637.8
		-1664.8	-153.6	-83.3	319.1	-540.5	7778.6
		-1667.6	-154.4	-82.2	321.0	-536.7	7768.3
		-1850.3	-156.3	-73.1	321.6	-288.5	7261.9
		-1853.0	-157.0	-72.0	323.5	-284.8	7251.5
		-1827.6	-152.2	-77.3	333.0	-350.1	7392.4
		-1830.4	-153.0	-76.3	334.9	-346.4	7382.0
		-1854.0	-154.7	-77.0	319.4	-261.3	7224.7
		-1856.7	-155.5	-75.9	321.4	-257.5	7214.4
		-1831.3	-150.7	-81.2	330.9	-322.9	7355.2
		-1834.0	-151.4	-80.2	332.8	-319.1	7344.8
247.		-1683.8	-379.6	-75.1	309.8	8769.9	-27922.2
		-1686.5	-380.4	-74.1	311.7	8644.3	-28022.6
		-1661.1	-375.6	-79.4	321.2	9234.2	-27290.6
		-1663.9	-376.3	-78.3	323.1	9108.7	-27391.0
		-1687.5	-378.1	-79.0	307.6	9277.1	-27766.7
		-1690.2	-378.8	-77.9	309.6	9151.6	-27867.0
		-1664.8	-374.0	-83.3	319.1	9741.5	-27135.0
		-1667.6	-374.8	-82.2	321.0	9616.0	-27235.4
		-1850.3	-376.7	-73.1	321.6	8736.0	-27980.9
		-1853.0	-377.4	-72.0	323.5	8610.4	-28081.3
		-1827.6	-372.6	-77.3	333.0	9200.3	-27349.3
		-1830.4	-373.4	-76.3	334.9	9074.8	-27449.7
		-1854.0	-375.1	-77.0	319.4	9243.2	-27825.4
		-1856.7	-375.9	-75.9	321.4	9117.7	-27925.8
		-1831.3	-371.1	-81.2	330.9	9707.6	-27193.7
		-1834.0	-371.8	-80.2	332.8	9582.0	-27294.1
Asta	67	nod	33	20			
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ	
0.		-1384.2	-267.9	-161.4	639.5	-10414.4	17102.3
		-1385.7	-268.6	-160.6	642.0	-10361.1	17137.0
		-1380.6	-263.5	-165.2	646.7	-10682.7	16907.6
		-1382.2	-264.3	-164.4	649.2	-10629.4	16942.4
		-1386.5	-266.4	-166.2	642.6	-10697.0	16980.3
		-1388.1	-267.1	-165.4	645.1	-10643.7	17015.1
		-1383.0	-262.1	-170.0	649.8	-10965.4	16785.7
		-1384.5	-262.8	-169.2	652.3	-10912.0	16820.4
		-1424.8	-251.4	-151.1	607.4	-9616.6	15754.5
		-1426.4	-252.2	-150.3	609.9	-9563.3	15789.3
		-1421.3	-247.1	-154.9	614.6	-9884.9	15559.9
		-1422.8	-247.8	-154.1	617.1	-9831.6	15594.7
		-1427.2	-250.0	-155.9	610.4	-9899.3	15632.6
		-1428.7	-250.7	-155.2	612.9	-9845.9	15667.4
		-1423.6	-245.6	-159.7	617.6	-10167.6	15437.9
		-1425.1	-246.4	-158.9	620.1	-10114.2	15472.7
64.		-1384.2	-273.3	-161.4	639.5	-166.4	-81.0
		-1385.7	-274.1	-160.6	642.0	-162.7	-91.5
		-1380.6	-269.0	-165.2	646.7	-195.2	-1.4
		-1382.2	-269.7	-164.4	649.2	-191.5	-11.9
		-1386.5	-271.9	-166.2	642.6	-142.4	-108.9
		-1388.1	-272.6	-165.4	645.1	-138.7	-119.4
		-1383.0	-267.5	-170.0	649.8	-171.2	-29.3
		-1384.5	-268.3	-169.2	652.3	-167.5	-39.8

	-1424.8	-256.9	-151.1	607.4	-20.5	-386.5
	-1426.4	-257.6	-150.3	609.9	-16.8	-397.0
	-1421.3	-252.6	-154.9	614.6	-49.3	-306.9
	-1422.8	-253.3	-154.1	617.1	-45.6	-317.4
	-1427.2	-255.5	-155.9	610.4	3.5	-414.4
	-1428.7	-256.2	-155.2	612.9	7.1	-424.9
	-1423.6	-251.1	-159.7	617.6	-25.3	-334.8
	-1425.1	-251.8	-158.9	620.1	-21.7	-345.3
127.	-1384.2	-278.8	-161.4	639.5	10081.6	-17612.7
	-1385.7	-279.5	-160.6	642.0	10035.6	-17668.5
	-1380.6	-274.5	-165.2	646.7	10292.3	-17258.9
	-1382.2	-275.2	-164.4	649.2	10246.3	-17314.7
	-1386.5	-277.4	-166.2	642.6	10412.2	-17546.5
	-1388.1	-278.1	-165.4	645.1	10366.2	-17602.3
	-1383.0	-273.0	-170.0	649.8	10622.9	-17192.7
	-1384.5	-273.7	-169.2	652.3	10576.9	-17248.5
	-1424.8	-262.4	-151.1	607.4	9575.6	-16876.0
	-1426.4	-263.1	-150.3	609.9	9529.6	-16931.8
	-1421.3	-258.1	-154.9	614.6	9786.3	-16522.2
	-1422.8	-258.8	-154.1	617.1	9740.3	-16577.9
	-1427.2	-260.9	-155.9	610.4	9906.2	-16809.8
	-1428.7	-261.7	-155.2	612.9	9860.2	-16865.6
	-1423.6	-256.6	-159.7	617.6	10116.9	-16456.0
	-1425.1	-257.3	-158.9	620.1	10070.9	-16511.8
Asta	86	nod	11	30		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-580.3	949.0	-26.5	7.7	-1169.4	-595.0
	-580.3	949.0	-33.5	2.7	-1483.4	-595.0
	-580.3	949.0	8.9	-177.4	328.3	-595.0
	-580.3	949.0	1.9	-182.4	14.3	-595.0
	-580.5	948.9	-8.0	83.5	-320.0	-595.0
	-580.5	948.9	-15.1	78.6	-634.0	-595.0
	-580.5	948.9	27.4	-101.6	1177.8	-595.0
	-580.5	948.9	20.3	-106.6	863.8	-595.0
	-957.9	743.4	-27.5	3.9	-1214.8	-461.2
	-957.9	743.4	-34.6	-1.0	-1528.8	-461.2
	-957.9	743.4	7.9	-181.2	283.0	-461.2
	-957.9	743.4	0.8	-186.2	-31.0	-461.2
	-958.0	743.3	-9.0	79.8	-365.3	-461.1
	-958.0	743.3	-16.1	74.8	-679.3	-461.1
	-958.0	743.3	26.4	-105.4	1132.4	-461.1
	-958.0	743.3	19.3	-110.4	818.4	-461.1
69.	-570.5	931.7	-26.5	7.7	659.1	64392.1
	-570.5	931.7	-33.5	2.7	834.6	64392.1
	-570.5	931.7	8.9	-177.4	-289.9	64391.9
	-570.5	931.7	1.9	-182.4	-114.4	64391.9
	-570.7	931.6	-8.0	83.5	232.3	64387.7
	-570.7	931.6	-15.1	78.6	407.8	64387.7
	-570.7	931.6	27.4	-101.6	-716.8	64387.6
	-570.7	931.6	20.3	-106.6	-541.3	64387.6
	-948.0	726.1	-27.5	3.9	686.6	50317.0
	-948.0	726.1	-34.6	-1.0	862.2	50317.0
	-948.0	726.1	7.9	-181.2	-262.4	50316.8
	-948.0	726.1	0.8	-186.2	-86.9	50316.8
	-948.2	726.0	-9.0	79.8	259.8	50312.6
	-948.2	726.0	-16.1	74.8	435.3	50312.6
	-948.2	726.0	26.4	-105.4	-689.3	50312.4
	-948.2	726.0	19.3	-110.4	-513.8	50312.4
138.	-560.6	914.4	-26.5	7.7	2487.7	128185.0
	-560.6	914.4	-33.5	2.7	3152.7	128185.0
	-560.6	914.4	8.9	-177.4	-908.1	128184.7
	-560.6	914.4	1.9	-182.4	-243.1	128184.6
	-560.8	914.3	-8.0	83.5	784.5	128176.2
	-560.8	914.3	-15.1	78.6	1449.5	128176.2
	-560.8	914.3	27.4	-101.6	-2611.3	128175.9
	-560.8	914.3	20.3	-106.6	-1946.3	128175.9
	-938.1	708.8	-27.5	3.9	2588.1	99900.8
	-938.1	708.8	-34.6	-1.0	3253.1	99900.8
	-938.1	708.8	7.9	-181.2	-807.8	99900.5
	-938.1	708.8	0.8	-186.2	-142.7	99900.5
	-938.3	708.7	-9.0	79.8	884.8	99892.0
	-938.3	708.7	-16.1	74.8	1549.9	99892.0
	-938.3	708.7	26.4	-105.4	-2511.0	99891.7
	-938.3	708.7	19.3	-110.4	-1846.0	99891.7
Asta	87	nod	30	31		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-196.4	91.4	-18.5	-108.3	930.3	127663.3
	-196.4	91.4	-23.5	-117.3	1176.7	127663.2
	-196.4	91.4	2.1	-320.3	-513.3	127662.9
	-196.4	91.4	-2.8	-329.3	-266.9	127662.9
	-196.5	91.4	-4.6	-23.0	380.0	127654.5
	-196.5	91.4	-9.5	-32.0	626.4	127654.5
	-196.5	91.4	16.1	-234.9	-1063.6	127654.2
	-196.5	91.4	11.2	-244.0	-817.2	127654.2
	-384.0	4.7	-19.2	-112.2	970.9	99521.7
	-384.0	4.7	-24.2	-121.2	1217.4	99521.7
	-384.0	4.7	1.4	-324.1	-472.6	99521.4
	-384.0	4.7	-3.5	-333.1	-226.2	99521.4
	-384.0	4.7	-5.2	-26.8	420.6	99513.0

	-384.0	4.7	-10.2	-35.8	667.0	99513.0
	-384.0	4.7	15.4	-238.8	-1023.0	99512.6
	-384.0	4.7	10.5	-247.8	-776.6	99512.6
69.	-186.6	74.1	-18.5	-108.3	2211.1	133380.2
	-186.6	74.1	-23.5	-117.3	2799.4	133380.2
	-186.6	74.1	2.1	-320.3	-660.0	133379.8
	-186.6	74.1	-2.8	-329.3	-71.8	133379.8
	-186.7	74.1	-4.6	-23.0	695.1	133370.7
	-186.7	74.1	-9.5	-32.0	1283.4	133370.7
	-186.7	74.1	16.1	-234.9	-2176.0	133370.3
	-186.7	74.1	11.2	-244.0	-1587.8	133370.3
	-374.1	-12.6	-19.2	-112.2	2298.6	99251.0
	-374.1	-12.6	-24.2	-121.2	2886.9	99251.0
	-374.1	-12.6	1.4	-324.1	-572.5	99250.6
	-374.1	-12.6	-3.5	-333.1	15.7	99250.6
	-374.2	-12.6	-5.2	-26.8	782.6	99241.4
	-374.2	-12.6	-10.2	-35.8	1370.9	99241.5
	-374.2	-12.6	15.4	-238.8	-2088.5	99241.1
	-374.2	-12.6	10.5	-247.8	-1500.3	99241.1
138.	-176.7	56.8	-18.5	-108.3	3491.9	137903.3
	-176.7	56.8	-23.5	-117.3	4422.0	137903.3
	-176.7	56.8	2.1	-320.3	-806.8	137902.9
	-176.7	56.8	-2.8	-329.3	123.3	137902.9
	-176.8	56.8	-4.6	-23.0	1010.3	137893.0
	-176.8	56.8	-9.5	-32.0	1940.4	137893.0
	-176.8	56.8	16.1	-234.9	-3288.4	137892.6
	-176.8	56.8	11.2	-244.0	-2358.3	137892.6
	-364.2	-29.8	-19.2	-112.2	3626.3	97786.4
	-364.2	-29.8	-24.2	-121.2	4556.4	97786.4
	-364.2	-29.8	1.4	-324.1	-672.4	97786.0
	-364.2	-29.8	-3.5	-333.1	257.7	97786.0
	-364.3	-29.9	-5.2	-26.8	1144.7	97776.1
	-364.3	-29.8	-10.2	-35.8	2074.7	97776.1
	-364.3	-29.9	15.4	-238.8	-3154.0	97775.7
	-364.3	-29.9	10.5	-247.8	-2224.0	97775.7
Asta	88	nod	31	32		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	56.5	-487.8	3.0	-697.9	1938.2	137851.3
	56.5	-487.8	0.4	-712.2	2451.8	137851.3
	56.5	-487.8	12.9	-868.7	-489.4	137850.9
	56.5	-487.8	10.3	-883.0	24.2	137851.0
	56.7	-487.7	11.6	-638.9	661.9	137841.0
	56.7	-487.7	9.0	-653.2	1175.5	137841.1
	56.7	-487.7	21.6	-809.6	-1765.7	137840.7
	56.7	-487.7	19.0	-823.9	-1252.1	137840.7
	93.7	-440.0	3.1	-700.6	2015.4	97837.5
	93.7	-440.0	0.5	-714.9	2529.0	97837.6
	93.7	-440.0	13.0	-871.3	-412.2	97837.2
	93.7	-440.0	10.4	-885.6	101.5	97837.2
	93.8	-439.9	11.7	-641.6	739.1	97827.3
	93.8	-439.9	9.2	-655.9	1252.7	97827.3
	93.9	-439.9	21.7	-812.3	-1688.5	97826.9
	93.8	-439.9	19.1	-826.6	-1174.8	97826.9
69.	66.4	-505.1	3.0	-697.9	1726.8	103541.3
	66.4	-505.1	0.4	-712.2	2419.1	103541.3
	66.4	-505.1	12.9	-868.7	-1387.7	103541.0
	66.4	-505.1	10.3	-883.0	-695.5	103541.0
	66.5	-505.0	11.6	-638.9	-147.9	103539.4
	66.5	-505.0	9.0	-653.2	544.4	103539.5
	66.5	-505.0	21.6	-809.6	-3262.4	103539.1
	66.5	-505.0	19.0	-823.9	-2570.1	103539.2
	103.6	-457.3	3.1	-700.6	1808.4	66832.2
	103.6	-457.3	0.5	-714.9	2500.7	66832.2
	103.6	-457.3	13.0	-871.3	-1306.1	66831.9
	103.6	-457.3	10.4	-885.6	-613.8	66832.0
	103.7	-457.1	11.7	-641.6	-66.2	66830.3
	103.7	-457.1	9.2	-655.9	626.0	66830.4
	103.7	-457.1	21.7	-812.3	-3180.8	66830.0
	103.7	-457.1	19.1	-826.6	-2488.5	66830.1
138.	76.3	-522.4	3.0	-697.9	1515.1	68037.0
	76.3	-522.4	0.4	-712.2	2386.0	68037.1
	76.3	-522.4	12.9	-868.7	-2286.4	68036.7
	76.3	-522.4	10.3	-883.0	-1415.5	68036.9
	76.4	-522.2	11.6	-638.9	-957.9	68043.6
	76.4	-522.2	9.0	-653.2	-87.0	68043.7
	76.4	-522.2	21.6	-809.6	-4759.4	68043.3
	76.4	-522.2	19.0	-823.9	-3888.5	68043.5
	113.4	-474.5	3.1	-700.6	1601.8	34632.6
	113.4	-474.5	0.5	-714.9	2472.7	34632.7
	113.4	-474.5	13.0	-871.3	-2199.7	34632.3
	113.4	-474.5	10.4	-885.6	-1328.8	34632.5
	113.6	-474.4	11.7	-641.6	-871.2	34639.2
	113.6	-474.4	9.2	-655.9	-0.3	34639.3
	113.6	-474.4	21.7	-812.3	-4672.8	34638.9
	113.6	-474.4	19.1	-826.6	-3801.9	34639.1
Asta	89	nod	32	33		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	306.4	-854.9	3.4	1307.3	3230.8	68698.6
	306.4	-854.9	4.2	1286.7	3791.6	68698.8

	306.4	-854.9	0.7	1197.0	817.0	68698.4
	306.4	-854.9	1.5	1176.5	1377.8	68698.5
	306.2	-855.0	5.0	1314.3	1771.8	68705.3
	306.2	-855.0	5.9	1293.8	2332.6	68705.4
	306.2	-855.0	2.3	1204.1	-642.0	68705.0
	306.2	-855.0	3.1	1183.6	-81.2	68705.2
	545.8	-698.5	2.6	1305.0	3193.6	35317.5
	545.8	-698.5	3.4	1284.5	3754.4	35317.7
	545.8	-698.5	-0.1	1194.8	779.8	35317.3
	545.8	-698.5	0.7	1174.3	1340.6	35317.4
	545.6	-698.6	4.3	1312.1	1734.6	35324.2
	545.6	-698.6	5.1	1291.6	2295.4	35324.3
	545.6	-698.6	1.6	1201.9	-679.2	35323.9
	545.6	-698.6	2.4	1181.3	-118.4	35324.1
69.	316.3	-872.2	3.4	1307.3	2963.7	9014.1
	316.3	-872.2	4.2	1286.7	3467.4	9014.3
	316.3	-872.2	0.7	1197.0	737.7	9014.0
	316.3	-872.2	1.5	1176.5	1241.4	9014.2
	316.1	-872.3	5.0	1314.3	1390.6	9014.9
	316.1	-872.3	5.9	1293.8	1894.3	9015.1
	316.1	-872.3	2.3	1204.1	-835.4	9014.8
	316.1	-872.3	3.1	1183.6	-331.7	9015.0
	555.6	-715.8	2.6	1305.0	3045.3	-13557.9
	555.6	-715.8	3.4	1284.5	3549.0	-13557.7
	555.7	-715.8	-0.1	1194.8	819.3	-13558.0
	555.6	-715.8	0.7	1174.3	1323.0	-13557.8
	555.5	-715.9	4.3	1312.1	1472.2	-13557.1
	555.5	-715.9	5.1	1291.6	1975.9	-13556.9
	555.5	-715.9	1.6	1201.9	-753.8	-13557.2
138.	555.5	-715.9	2.4	1181.3	-250.1	-13557.0
	326.1	-889.5	3.4	1307.3	2730.6	-51864.7
	326.1	-889.5	4.2	1286.7	3177.2	-51864.4
	326.1	-889.5	0.7	1197.0	692.5	-51864.6
	326.1	-889.5	1.5	1176.5	1139.0	-51864.4
	326.0	-889.6	5.0	1314.3	1043.4	-51869.7
	326.0	-889.6	5.9	1293.8	1490.0	-51869.5
	326.0	-889.6	2.3	1204.1	-994.8	-51869.7
	326.0	-889.6	3.1	1183.6	-548.2	-51869.4
	565.5	-733.1	2.6	1305.0	2863.0	-63627.5
	565.5	-733.1	3.4	1284.5	3309.6	-63627.3
	565.5	-733.1	-0.1	1194.8	824.9	-63627.5
	565.5	-733.1	0.7	1174.3	1271.5	-63627.2
	565.3	-733.2	4.3	1312.1	1175.8	-63632.6
	565.3	-733.2	5.1	1291.6	1622.4	-63632.3
	565.3	-733.2	1.6	1201.9	-862.3	-63632.5
	565.3	-733.2	2.4	1181.3	-415.8	-63632.3
Asta	90	nod	33	2		
PROGR.	NORM	TY	TZZ	TORS	MY	MZZ
0.	389.6	-354.1	1.3	55.7	1009.0	-50555.3
	389.6	-354.1	4.3	27.6	1327.8	-50555.1
	389.6	-354.1	-7.4	16.9	-368.4	-50555.2
	389.6	-354.1	-4.4	-11.3	-49.6	-50555.0
	389.9	-354.0	-2.9	-12.5	-66.0	-50560.3
	389.9	-354.0	0.1	-40.6	252.8	-50560.1
	389.9	-354.0	-11.6	-51.3	-1443.4	-50560.3
	389.9	-354.0	-8.5	-79.5	-1124.6	-50560.1
	654.1	-221.5	1.7	59.3	1095.4	-62382.6
	654.1	-221.5	4.8	31.1	1414.2	-62382.3
	654.1	-221.5	-6.9	20.4	-282.0	-62382.5
	654.1	-221.5	-3.9	-7.8	36.7	-62382.3
	654.4	-221.4	-2.5	-8.9	20.4	-62387.6
	654.4	-221.4	0.6	-37.1	339.2	-62387.4
	654.4	-221.4	-11.1	-47.8	-1357.0	-62387.6
	654.4	-221.4	-8.1	-76.0	-1038.3	-62387.3
73.	400.1	-372.4	1.3	55.7	917.1	-77140.6
	400.1	-372.4	4.3	27.6	1013.4	-77140.8
	400.0	-372.4	-7.4	16.9	172.4	-77140.3
	400.1	-372.4	-4.4	-11.3	268.7	-77140.4
	400.3	-372.3	-2.9	-12.5	148.9	-77139.0
	400.3	-372.3	0.1	-40.6	245.2	-77139.1
	400.3	-372.3	-11.6	-51.3	-595.7	-77138.6
	400.3	-372.3	-8.5	-79.5	-499.4	-77138.8
	664.6	-239.8	1.7	59.3	968.4	-79263.7
	664.6	-239.8	4.8	31.1	1064.7	-79263.9
	664.6	-239.8	-6.9	20.4	223.8	-79263.4
	664.6	-239.8	-3.9	-7.8	320.0	-79263.6
	664.9	-239.7	-2.5	-8.9	200.3	-79262.1
	664.9	-239.7	0.6	-37.1	296.5	-79262.2
	664.8	-239.7	-11.1	-47.8	-544.4	-79261.8
	664.9	-239.7	-8.1	-76.0	-448.1	-79261.9
146.	410.5	-390.7	1.3	55.7	824.7	-105065.5
	410.5	-390.7	4.3	27.6	698.5	-105066.0
	410.5	-390.7	-7.4	16.9	712.9	-105064.8
	410.5	-390.7	-4.4	-11.3	586.7	-105065.4
	410.8	-390.6	-2.9	-12.5	363.5	-105057.1
	410.8	-390.6	0.1	-40.6	237.3	-105057.6
	410.8	-390.6	-11.6	-51.3	251.6	-105056.5
	410.8	-390.6	-8.5	-79.5	125.4	-105057.0
	675.0	-258.1	1.7	59.3	841.8	-97484.4
	675.0	-258.1	4.8	31.1	715.6	-97485.0

675.0	-258.1	-6.9	20.4	729.9	-97483.8
675.0	-258.1	-3.9	-7.8	603.7	-97484.3
675.3	-258.0	-2.5	-8.9	380.5	-97476.1
675.3	-258.0	0.6	-37.1	254.3	-97476.6
675.3	-258.0	-11.1	-47.8	268.7	-97475.4
675.3	-258.0	-8.1	-76.0	142.5	-97476.0

SOLLECITAZIONI ASTE

CASO DI CARICO : 12 Quasi Perm

COMBINAZIONE

N. 2 CONDIZIONI ANALISI STATICA

1	Peso_proprio	+	1.00
2	Permanente	+	1.00

1) +1.00*c001 +1.00*c002

Unità di misura: Prog e frecce [cm];NORM,TYY,TZZ [daN]

MZZ,MY,TORS [daNcm]

Asta	17	nod	14	30		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	-1270.9	417.6	10.2	223.0	2466.2	-36876.2
244.	-1270.9	19.7	10.2	223.0	-20.3	17744.5
487.	-1270.9	-445.8	10.2	223.0	-2506.8	-32769.4

Asta	18	nod	17	31		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	-1811.5	343.4	31.9	-5.9	5863.6	-27930.4
184.	-1811.5	56.3	31.9	-5.9	11.5	9725.4
367.	-1811.5	-294.0	31.9	-5.9	-5840.5	-11114.3

Asta	20	nod	21	33		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	-1398.4	345.3	166.1	-647.3	10448.8	-18758.7
64.	-1398.4	267.6	166.1	-647.3	-105.2	878.0
127.	-1398.4	159.7	166.1	-647.3	-10659.3	14616.8

Asta	41	nod	3	14		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	-4719.8	-7.8	1.2	-149.9	58.4	35462.4
92.	-4689.9	-81.7	1.2	-149.9	-53.0	31749.6
183.	-4639.9	-205.5	1.2	-149.9	-164.4	18989.7

Asta	42	nod	14	17		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	-2673.9	-310.0	1.6	-178.0	-138.0	71439.7
92.	-2644.0	-383.9	1.6	-178.0	-285.7	40074.2
183.	-2594.1	-507.7	1.6	-178.0	-433.4	-336.6

Asta	43	nod	17	18		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	-6.1	-202.6	-1.9	-27.5	-468.3	39001.6
92.	23.7	-276.4	-1.9	-27.5	-292.4	17462.6
183.	73.8	-400.3	-1.9	-27.5	-116.4	-13123.6

Asta	44	nod	18	21		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	2495.5	-65.4	-5.4	5.3	-223.6	18308.7
92.	2525.3	-139.3	-5.4	5.3	273.3	9325.4
183.	2575.4	-263.1	-5.4	5.3	770.1	-8705.1

Asta	45	nod	21	2		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	4464.6	-227.4	3.8	639.7	571.6	16440.2
97.	4496.8	-307.2	3.8	639.7	206.1	-9012.7
194.	4551.7	-443.0	3.8	639.7	-159.5	-44916.1

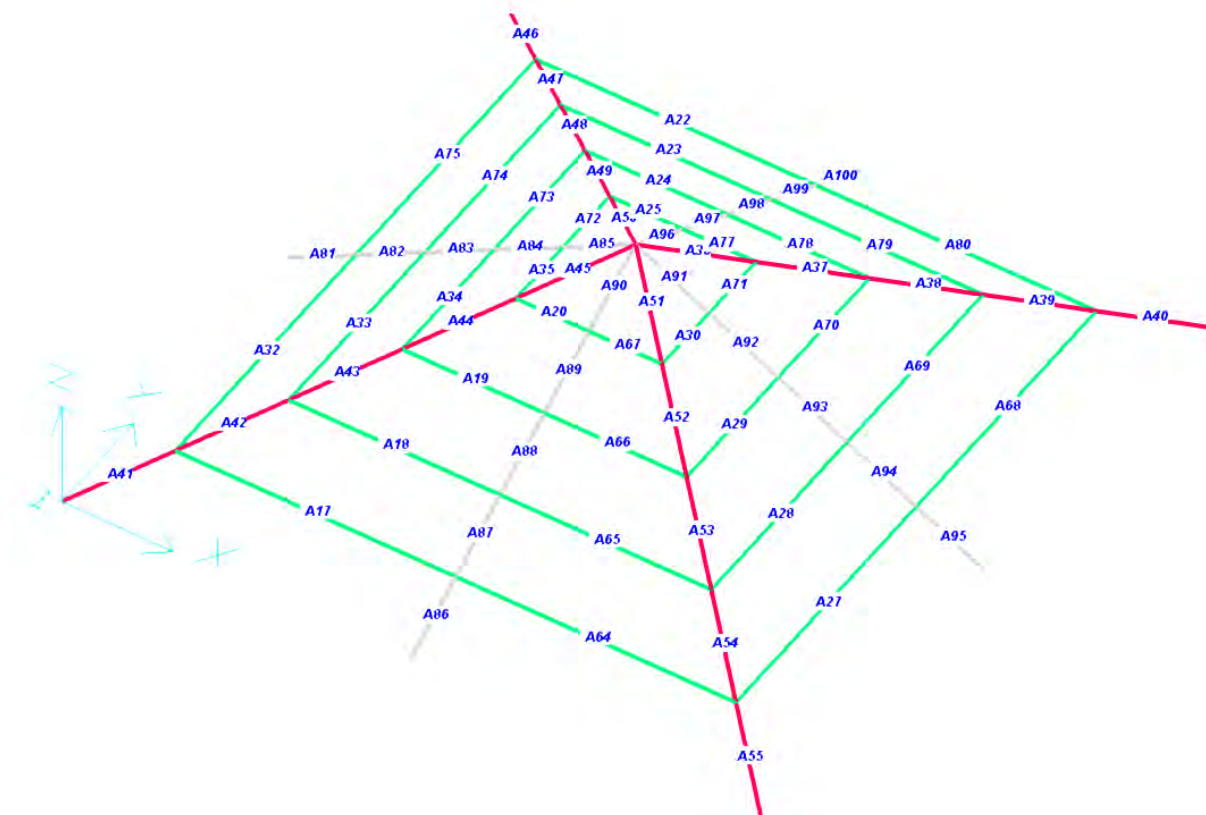
Asta	51	nod	2	20		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	4504.1	358.9	7.7	-695.8	-302.0	-47265.9
97.	4466.2	265.1	7.7	-695.8	-1051.8	-17259.5
194.	4439.6	199.4	7.7	-695.8	-1801.7	5018.5

Asta	52	nod	20	19		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	2583.7	301.0	0.4	-1567.2	-1459.1	-19186.3
92.	2548.8	214.7	0.4	-1567.2	-1498.6	4220.9
183.	2524.0	153.3	0.4	-1567.2	-1538.1	20867.8

Asta	53	nod	19	16		
PROGR.	NORM	TYY	TZZ	TORS	MY	MZZ
0.	63.3	414.2	-2.4	1108.7	-2832.8	-14693.7
92.	13.3	290.3	-2.4	1108.7	-2608.9	17163.9
183.	-16.6	216.5	-2.4	1108.7	-2384.9	39974.4

Asta	54	nod	16	15		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-2584.4	509.7	-5.5	889.4	-2803.8	332.8
92.	-2634.4	385.9	-5.5	889.4	-2298.5	40926.2
183.	-2664.2	312.0	-5.5	889.4	-1793.2	72474.3
Asta	55	nod	15	5		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-4620.4	202.2	-15.0	560.1	-2286.2	19882.7
92.	-4670.5	78.4	-15.0	560.1	-912.5	32339.5
183.	-4700.3	4.5	-15.0	560.1	461.1	35749.2
Asta	64	nod	30	15		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1271.3	445.1	-9.4	-227.4	-2357.8	-32538.1
243.	-1271.3	-20.2	-9.4	-227.4	-68.0	17819.7
487.	-1271.3	-418.1	-9.4	-227.4	2221.8	-36913.8
Asta	65	nod	31	16		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1796.4	291.8	-31.4	-6.3	-5911.3	-10482.2
184.	-1796.4	-58.4	-31.4	-6.3	-144.5	9972.7
367.	-1796.4	-345.4	-31.4	-6.3	5622.2	-28035.9
Asta	66	nod	32	19		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1758.9	291.6	-77.6	321.3	-10001.2	1429.3
124.	-1758.9	-155.3	-77.6	321.3	-412.6	7515.1
247.	-1758.9	-375.7	-77.6	321.3	9176.0	-27608.2
Asta	67	nod	33	20		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-1404.7	-257.1	-160.2	629.8	-10264.3	16287.5
64.	-1404.7	-262.6	-160.2	629.8	-94.0	-213.2
127.	-1404.7	-268.1	-160.2	629.8	10076.3	-17062.2
Asta	86	nod	11	30		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-769.2	846.1	-3.6	-51.3	-175.5	-528.1
69.	-759.3	828.8	-3.6	-51.3	72.7	57352.3
138.	-749.4	811.6	-3.6	-51.3	320.9	114038.3
Asta	87	nod	30	31		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	-290.2	48.0	-4.0	-178.1	76.9	113587.9
69.	-280.4	30.8	-4.0	-178.1	355.4	116310.6
138.	-270.5	13.5	-4.0	-178.1	634.0	117839.5
Asta	88	nod	31	32		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	75.2	-463.8	11.0	-762.3	381.7	117839.1
69.	85.1	-481.1	11.0	-762.3	-380.9	85185.7
138.	94.9	-498.4	11.0	-762.3	-1143.4	51338.0
Asta	89	nod	32	33		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	426.0	-776.8	2.9	1244.3	1556.2	52011.3
69.	435.9	-794.1	2.9	1244.3	1356.8	-2271.4
138.	445.7	-811.4	2.9	1244.3	1157.4	-57748.5
Asta	90	nod	33	2		
PROGR.	NORM	TYT	TZZ	TORS	MYT	MZZ
0.	522.0	-287.8	-3.4	-10.1	-14.6	-56471.3
73.	532.5	-306.1	-3.4	-10.1	234.5	-78201.3
146.	542.9	-324.4	-3.4	-10.1	483.6	-101270.7

VERIFICA ASTE IN LEGNO



ASTE DA VERIFICARE

☒ Nomi aste :

Materiale :

Descrizione :

Colore :

NOME FILE DI OUTPUT

DATI MATERIALE

Descrizione

Norma Classe

fm,k	<input type="text" value="240"/>	E0,m	<input type="text" value="110000"/>	ρ_k	<input type="text" value="0.00035"/>
ft,0,k	<input type="text" value="140"/>	E0,05	<input type="text" value="74000"/>	ρ_m	<input type="text" value="0.00042"/>
ft,90,k	<input type="text" value="4"/>	E90,m	<input type="text" value="3700"/>	<input type="button" value="C"/>	
fc,0,k	<input type="text" value="210"/>	Gm	<input type="text" value="6900"/>		
fc,90,k	<input type="text" value="25"/>	G0,05	<input type="text" value="4641.82"/>		
fv,k	<input type="text" value="40"/>				

☐ Salva in custom per i nuovi lavori

Classe di servizio :

Tipo legno :

Riferimento :

	Kmod	Casi	ft,0,d (*)	fc,0,d	fm,d (*)	fv,d	
Permanente	<input type="text" value="0.6"/>	<input type="text" value="1"/>	<input type="text" value="56"/>	<input type="text" value="84"/>	<input type="text" value="96"/>	<input type="text" value="16"/>	γ_m <input type="text" value="1.5"/>
Lunga	<input type="text" value="0.7"/>		<input type="text" value="65.33"/>	<input type="text" value="98"/>	<input type="text" value="112"/>	<input type="text" value="18.67"/>	Kdef <input type="text" value="0.6"/>
Media	<input type="text" value="0.8"/>		<input type="text" value="74.67"/>	<input type="text" value="112"/>	<input type="text" value="128"/>	<input type="text" value="21.33"/>	β_c <input type="text" value="0.2"/>
Breve	<input type="text" value="0.9"/>		<input type="text" value="84"/>	<input type="text" value="126"/>	<input type="text" value="144"/>	<input type="text" value="24"/>	$\tau_{min tor}$ <input type="text" value="0.01"/>
Istantanea	<input type="text" value="1"/>		<input type="text" value="93.33"/>	<input type="text" value="140"/>	<input type="text" value="160"/>	<input type="text" value="26.67"/>	

(*) valori per Kh=1

VERIFICA ASTE IN LEGNO

Lavoro : 13119B
 Normativa : NTC08 - EC5 (UNI EN 1995-1-1)
 Unità di misura : cm; daN; daN/cm; daN/cm²; daN/cm³.
 Data : 31/03/2015 - 22.16
 Numero aste : 72

MATERIALE

Descrizione: Legno massiccio
 Norma : UNI EN 338 Classe : C24
 fmk = 240. ft0k= 140. ft90k=4. fc0k= 210. fc90k=25. fvk = 40.
 E0m = 110000 E005= 74000. E90m = 3700. Gm = 6900. G005= 4641.8
 Rok = .00035 Rom = .00042

DATI [NTC08 4.4.6]

Tipo legno : Legno massiccio Riferimento : EN 14081.1
 Classe di servizio: 1 ; gM= 1.5 ; kdef= 0.6 ; betaC= 0.2

classi di durata	kmod	ft0d *	fc0d	fmd *	fvd	Casi di carico
Permanente	.600	56.00	84.00	96.00	16.00	1
Lunga durata	.700	65.33	98.00	112.00	18.67	non prevista
Media durata	.800	74.67	112.00	128.00	21.33	non prevista
Breve durata	.900	84.00	126.00	144.00	24.00	non prevista
Istantaneo	1.000	93.33	140.00	160.00	26.67	4, 5

(*) valori per kh=1

CASI DI CARICO

N	Descrizione	Soll.
1	SLU SENZA SISMA	1
4	SLU con SISMAX PRINC	16
5	SLU con SISMAX PRINC	16

SEZIONI RETTANGOLARI

N	b	h	alfa	A	Jz	Jy	Jtor	Km	Ksh
3	20.	22.	4.684	440.	17746.7	14666.7	37960.8	.7	1.165
1	30.	32.	4.724	960.	81920.	72000.	184320.	.7	1.16
2	24.	32.	4.458	768.	65536.	36864.	101693.8	.7	1.2

VERIFICHE

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (14-30) 17
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit
Z	487.07	76.69	1.300	1.446	.481	487.07	1748.3	.371	1.000
Y	487.07	84.36	1.431	1.636	.411	487.07	2115.5	.337	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
1- 1	-107297.5	6998.4	633.7	-3483.9	29.0	1215.0

TENSIONI											
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd
1- 1	0.0	7.9	66.5	4.8	.736	.923	.709	.34	.1	.34	4.1

----- PROGR.(9) 487.07

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
1- 1	-95913.9	-7119.6	633.7	-3483.9	29.0	-1303.5

TENSIONI											
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd
1- 1	0.0	7.9	59.5	4.9	.664	.850	.613	.34	.1	.34	4.4

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (17-31) 18
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit
Z	367.07	57.80	.980	1.048	.704	367.07	2319.9	.322	1.000
Y	367.07	63.58	1.078	1.159	.631	367.07	2807.1	.292	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
1- 1	-80643.4	16614.6	-17.9	-4958.9	90.3	995.2

TENSIONI											
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd
1- 1	0.0	11.3	50.0	11.3	.621	.794	.484	.01	.3	.01	3.4

----- PROGR.(9) 367.07

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY

1- 1	-33181.6	-16544.8	-17.9	-4958.9	90.3	-863.1
------	----------	----------	-------	---------	------	--------

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	11.3	20.6	11.3	.314	.487	.258	.01	.3	.01	2.9	.184	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (18-32) 19
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale								Instabilita' torsionale			
AS	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit		
Z	247.07	38.90	.660	.754	.895	247.07	3446.7	.264	1.000		
Y	247.07	42.79	.726	.806	.865	247.07	4170.5	.240	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-64392.8	25522.3	-1000.6	-4759.3	201.9	852.7

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	10.8	39.9	17.4	.559	.687	.322	.53	.7	.53	2.9	.062	si

----- PROGR.(9) 247.07

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	11813.4	-24368.2	-1000.6	-4759.3	201.9	-345.2

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	10.8	7.3	16.6	.243	.375	.174	.53	.7	.53	1.2	.034	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (21-33) 20
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
AS	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit
Z	127.07	20.01	.339	.561	.991	127.07	6701.5	.189	1.000
Y	127.07	22.01	.373	.577	.983	127.07	8108.8	.172	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-53064.1	29438.0	-1832.8	-3764.0	468.2	980.9

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	8.6	32.9	20.1	.499	.592	.221	.98	1.6	.98	3.3	.096	si

----- PROGR.(9) 127.07

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	41250.7	-30068.6	-1832.8	-3764.0	468.2	442.7

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	8.6	25.6	20.5	.426	.519	.175	.98	1.6	.98	1.5	.062	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (22-45) 22
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
AS	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit
Z	487.07	76.69	1.300	1.446	.481	487.07	1748.3	.371	1.000
Y	487.07	84.36	1.431	1.636	.411	487.07	2115.5	.337	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-106916.3	-7138.7	-560.2	-3448.3	-28.6	1211.7

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	7.8	66.3	4.9	.735	.920	.703	.30	.1	.30	4.1	.083	si

----- PROGR.(9) 487.07

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-97147.2	6780.5	-560.2	-3448.3	-28.6	-1306.8

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	7.8	60.2	4.6	.670	.855	.620	.30	.1	.30	4.5	.094	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (25-44) 23
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
AS	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit
Z	367.07	57.80	.980	1.048	.704	367.07	2319.9	.322	1.000
Y	367.07	63.58	1.078	1.159	.631	367.07	2807.1	.292	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-80018.2	-16397.7	73.9	-4902.2	-89.1	991.6

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	11.1	49.6	11.2	.616	.787	.477	.04	.3	.04	3.4	.047	si

----- PROGR.(9) 367.07

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-33865.7	16316.1	73.9	-4902.2	-89.1	-866.6
5-13	-11853.4	6428.5	4.7	-1663.7	-34.2	-299.6

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	11.1	21.0	11.1	.317	.488	.258	.04	.3	.04	3.0	.036	si
5-13	0.0	3.8	7.3	4.4	.066	.103	.045	0.00	.1	0.00	1.0	.038	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (26-43) 24

Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	k crit
Z	247.07	38.90	.660	.754	.895	Z	247.07	3446.7	.264
Y	247.07	42.79	.726	.806	.865	Y	247.07	4170.5	.240

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-64495.7	-25075.7	966.2	-4739.0	-203.3	863.9

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	10.8	40.0	17.1	.558	.684	.322	.51	.7	.51	2.9	.061	si

----- PROGR.(9) 247.07

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	14486.1	25152.8	966.2	-4739.0	-203.3	-334.0

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	10.8	9.0	17.1	.261	.392	.175	.51	.7	.51	1.1	.033	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (29-42) 25

Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	k crit
Z	127.07	20.01	.339	.561	.991	Z	127.07	6701.5	.189
Y	127.07	22.01	.373	.577	.983	Y	127.07	8108.8	.172

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-50599.8	-27676.8	1702.7	-3822.7	-436.8	932.7

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	8.7	31.4	18.9	.475	.569	.212	.91	1.5	.91	3.2	.088	si

----- PROGR.(9) 127.07

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	37583.4	27846.0	1702.7	-3822.7	-436.8	394.5

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	8.7	23.3	19.0	.392	.485	.164	.91	1.5	.91	1.3	.057	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (15-34) 27

Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	k crit
Z	487.07	76.69	1.300	1.446	.481	Z	487.07	1748.3	.371
Y	487.07	84.36	1.431	1.636	.411	Y	487.07	2115.5	.337

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-107804.1	8004.0	532.5	-3438.6	33.0	1216.8

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	7.8	66.8	5.5	.744	.929	.711	.28	.1	.28	4.1	.082	si

----- PROGR.(9) 487.07

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-95543.9	-8069.6	532.5	-3438.6	33.0	-1301.7

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	7.8	59.2	5.5	.666	.850	.607	.28	.1	.28	4.4	.092	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (16-35) 28
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

As	L0	Lam	LamRel	k	kc
Z	367.07	57.80	.980	1.048	.704
Y	367.07	63.58	1.078	1.159	.631

Instabilita' torsionale

L0	Scrit	LamRel	K crit
367.07	2319.9	.322	1.000
367.07	2807.1	.292	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-81025.6	17304.5	-115.9	-4896.1	93.6	996.3

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	11.1	50.2	11.8	.627	.797	.484	.06	.3	.06	3.4	.048	si

----- PROGR.(9) 367.07

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-33140.5	-17044.5	-115.9	-4896.1	93.6	-861.9
4-15	-11150.2	-5884.0	-4.0	-1684.5	31.8	-294.7

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	11.1	20.5	11.6	.316	.487	.256	.06	.3	.06	2.9	.037	si
4-15	0.0	3.8	6.9	4.0	.061	.100	.045	0.00	.1	0.00	1.0	.038	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (19-36) 29
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

As	L0	Lam	LamRel	k	kc
Z	247.07	38.90	.660	.754	.895
Y	247.07	42.79	.726	.806	.865

Instabilita' torsionale

L0	Scrit	LamRel	K crit
247.07	3446.7	.264	1.000
247.07	4170.5	.240	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-66811.7	26528.5	-1039.5	-4780.7	210.9	875.4

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	10.9	41.4	18.1	.580	.708	.336	.55	.7	.55	3.0	.064	si

----- PROGR.(9) 247.07

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	15002.3	-25574.5	-1039.5	-4780.7	210.9	-322.5

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	10.9	9.3	17.4	.266	.399	.178	.55	.7	.55	1.1	.034	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (20-37) 30
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

As	L0	Lam	LamRel	k	kc
Z	127.07	20.01	.339	.561	.991
Y	127.07	22.01	.373	.577	.983

Instabilita' torsionale

L0	Scrit	LamRel	K crit
127.07	6701.5	.189	1.000
127.07	8108.8	.172	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-52013.7	28346.2	-1721.3	-3768.2	440.5	942.8

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	8.6	32.2	19.3	.487	.580	.216	.92	1.5	.92	3.2	.090	si

----- PROGR.(9) 127.07

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	37461.9	-27637.1	-1721.3	-3768.2	440.5	404.7

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	8.6	23.2	18.8	.390	.482	.162	.92	1.5	.92	1.4	.058	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (14-41) 32
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale							Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc		L0	Scrit	LamRel	k crit
Z	487.07	76.69	1.300	1.446	.481		487.07	1748.3	.371	1.000
Y	487.07	84.36	1.431	1.636	.411		487.07	2115.5	.337	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-107297.2	-7103.1	-565.1	-3485.5	-29.1	1214.5

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsItol	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	7.9	66.5	4.8	.737	.924	.709	.30	.1	.30	4.1	.083	si

----- PROGR.(9) 487.07

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-96157.3	7082.0	-565.1	-3485.5	-29.1	-1304.0

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsItol	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	7.9	59.6	4.8	.665	.852	.615	.30	.1	.30	4.4	.093	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (17-40) 33
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale							Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc		L0	Scrit	LamRel	k crit
Z	367.07	57.80	.980	1.048	.704		367.07	2319.9	.322	1.000
Y	367.07	63.58	1.078	1.159	.631		367.07	2807.1	.292	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-80051.2	-16349.0	74.6	-4945.5	-88.8	991.6

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsItol	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	11.2	49.6	11.1	.616	.788	.479	.04	.3	.04	3.4	.047	si

----- PROGR.(9) 367.07

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-33882.5	16244.9	74.6	-4945.5	-88.8	-866.6
4- 2	-11865.6	6403.3	5.3	-1675.2	-34.1	-299.6

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsItol	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	11.2	21.0	11.1	.317	.490	.260	.04	.3	.04	3.0	.036	si
4- 2	0.0	3.8	7.4	4.4	.066	.104	.045	0.00	.1	0.00	1.0	.038	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (18-39) 34
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale							Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc		L0	Scrit	LamRel	k crit
Z	247.07	38.90	.660	.754	.895		247.07	3446.7	.264	1.000
Y	247.07	42.79	.726	.806	.865		247.07	4170.5	.240	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-64457.8	-25187.5	976.8	-4743.3	-203.1	861.7

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsItol	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	10.8	40.0	17.2	.558	.685	.322	.52	.7	.52	2.9	.062	si

----- PROGR.(9) 247.07

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	13966.1	24989.2	976.8	-4743.3	-203.1	-336.3

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsItol	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	10.8	8.7	17.0	.257	.389	.175	.52	.7	.52	1.1	.033	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (21-38) 35
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale							Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc		L0	Scrit	LamRel	k crit
Z	127.07	20.01	.339	.561	.991		127.07	6701.5	.189	1.000
Y	127.07	22.01	.373	.577	.983		127.07	8108.8	.172	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-50981.6	-28173.4	1736.0	-3831.7	-439.6	930.2

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	8.7	31.6	19.2	.480	.574	.214	.92	1.5	.92	3.2	.089	si

----- PROGR.(9) 127.07

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	36893.5	27694.4	1736.0	-3831.7	-439.6	392.1

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	8.7	22.9	18.9	.387	.480	.162	.92	1.5	.92	1.3	.058	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (2-28) 36

Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

As	L0	Lam	LamRel	k	kc
Z	193.82	20.98	.356	.569	.987
Y	193.82	22.38	.379	.580	.982

Instabilita' torsionale

L0	Scrit	LamRel	K crit
193.82	6759.2	.188	1.000
193.82	7690.5	.177	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-126114.9	-418.8	1210.5	12233.5	-5.4	1065.5

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	12.7	0.0	24.6	.1	.485	0.000	.066	.20	0.0	.20	1.7	.022	si

----- PROGR.(9) 193.82

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	23876.2	631.0	1210.5	12043.3	-5.4	595.0

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	12.5	0.0	4.7	.1	.274	0.000	.002	.20	0.0	.20	.9	.014	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (28-27) 37

Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

As	L0	Lam	LamRel	k	kc
Z	183.03	19.81	.336	.560	.992
Y	183.03	21.13	.358	.570	.987

Instabilita' torsionale

L0	Scrit	LamRel	K crit
183.03	7157.5	.183	1.000
183.03	8143.7	.172	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-45968.3	863.2	1795.3	6928.2	17.1	639.8

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	7.2	0.0	9.0	.2	.224	0.000	.009	.29	0.0	.29	1.0	.020	si

----- PROGR.(9) 183.03

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	22926.9	-2269.6	1795.3	6755.7	17.1	212.9
4-16	43333.9	-8822.0	1079.4	2231.8	20.2	132.3

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	7.0	0.0	4.5	.5	.176	0.000	.002	.29	0.0	.29	.3	.016	si
4-16	2.3	0.0	8.5	1.8	.086	0.000	.003	.18	0.0	.18	.2	.006	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (27-24) 38

Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

As	L0	Lam	LamRel	k	kc
Z	183.03	19.81	.336	.560	.992
Y	183.03	21.13	.358	.570	.987

Instabilita' torsionale

L0	Scrit	LamRel	K crit
183.03	7157.5	.183	1.000
183.03	8143.7	.172	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-68354.8	-1986.6	3144.0	137.7	0.0	1009.8

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	.1	0.0	13.4	.4	.145	0.000	.019	.52	0.0	.52	1.6	.038	si

----- PROGR.(9) 183.03

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	68271.2	-1984.8	3144.0	-34.9	0.0	582.9

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	13.3	.4	.142	.142	.020	.52	0.0	.52	.9	.031	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (24-23) 39
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale					
AS	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	k crit		
Z	183.03	19.81	.336	.560	.992	183.03	7157.5	.183	1.000		
Y	183.03	21.13	.358	.570	.987	183.03	8143.7	.172	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	-47092.2	-1586.4	5411.8	-7082.8	-1.9	1271.5	

TENSIONI :											
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIto	Ttozd	Tzd	Ttoyd	Tyd fsTau VE
1- 1	0.0	7.4	9.2	.3	.106	.187	.098	.89	0.0	.89	2.0 .063 si

----- PROGR.(9) 183.03

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	173973.3	-1241.5	5411.8	-7134.1	-1.9	1144.4	

TENSIONI :											
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIto	Ttozd	Tzd	Ttoyd	Tyd fsTau VE
1- 1	0.0	7.4	34.0	.3	.364	.445	.215	.89	0.0	.89	1.8 .060 si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (23-1) 40
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale					
AS	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	k crit		
Z	183.03	19.81	.336	.560	.992	183.03	7157.5	.183	1.000		
Y	183.03	21.13	.358	.570	.987	183.03	8143.7	.172	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	12016.8	-596.9	9008.2	-12550.9	33.1	547.9	

TENSIONI :											
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIto	Ttozd	Tzd	Ttoyd	Tyd fsTau VE
1- 1	0.0	13.1	2.3	.1	.050	.182	.158	1.48	.1	1.48	.9 .082 si

----- PROGR.(9) 183.03

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	100672.5	-6648.4	9008.2	-12602.3	33.1	420.8	

TENSIONI :											
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIto	Ttozd	Tzd	Ttoyd	Tyd fsTau VE
1- 1	0.0	13.1	19.7	1.4	.239	.372	.200	1.48	.1	1.48	.7 .081 si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (3-14) 41
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale					
AS	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	k crit		
Z	183.03	19.81	.336	.560	.992	183.03	7157.5	.183	1.000		
Y	183.03	21.13	.358	.570	.987	183.03	8143.7	.172	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	100356.6	175.2	-449.7	-12847.1	3.7	-108.2	
5- 4	34668.2	1233.6	-899.9	-4533.3	47.1	66.5	

TENSIONI :											
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIto	Ttozd	Tzd	Ttoyd	Tyd fsTau VE
1- 1	0.0	13.4	19.6	0.0	.230	.365	.203	.07	0.0	.07	.2 .004 si
5- 4	0.0	4.7	6.8	.3	.045	.077	.036	.15	.1	.15	.1 .005 si

----- PROGR.(9) 183.03

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	50620.8	-493.3	-449.7	-12674.5	3.7	-535.2	

TENSIONI :											
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIto	Ttozd	Tzd	Ttoyd	Tyd fsTau VE
1- 1	0.0	13.2	9.9	.1	.128	.262	.170	.07	0.0	.07	.8 .007 si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (14-17) 42
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale					
AS	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	k crit		
Z	183.03	19.81	.336	.560	.992	183.03	7157.5	.183	1.000		
Y	183.03	21.13	.358	.570	.987	183.03	8143.7	.172	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	203209.9	-414.0	-533.9	-7233.6	4.8	-952.5

TENSIONI	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	7.5	39.7	.1	.422	.504	.262	.09	0.0	.09	1.5	.013	si

----- PROGR.(9) 183.03

SOLLECITAZIONI	MZ	MY	MT	N	TZ	TY
Caso	-1026.4	-1300.2	-533.9	-7061.3	4.8	-1379.4
1- 1	-39830.3	-13728.9	-757.0	-2804.8	34.9	-591.5

TENSIONI	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	7.4	.2	.3	.012	.093	.089	.09	0.0	.09	2.2	.023	si
4-12	0.0	2.9	7.8	2.9	.062	.082	.024	.12	.1	.12	.9	.005	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (17-18) 43
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	k crit
Z	183.03	19.81	.336	.560	.992	183.03	7157.5	.183	1.000
Y	183.03	21.13	.358	.570	.987	183.03	8143.7	.172	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI	MZ	MY	MT	N	TZ	TY
Caso	112536.4	-1404.8	-82.6	59.6	-5.8	-647.8
1- 1	57626.4	-8326.3	-1262.7	-34.8	-7.1	-206.0
5- 4	76523.0	-11739.3	-681.2	-53.8	.4	-211.8

TENSIONI	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	.1	0.0	22.0	.3	.232	0.000	.052	.01	0.0	.01	1.0	.005	si
5- 4	0.0	0.0	11.3	1.7	.078	.078	.005	.21	0.0	.21	.3	.007	si
5- 5	0.0	.1	14.9	2.4	.104	.105	.009	.11	0.0	.11	.3	.004	si

----- PROGR.(9) 183.03

SOLLECITAZIONI	MZ	MY	MT	N	TZ	TY
Caso	-35966.1	-349.3	-82.6	232.2	-5.8	-1074.7
1- 1						

TENSIONI	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	.2	0.0	7.0	.1	.078	0.000	.005	.01	0.0	.01	1.7	.012	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (18-21) 44
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	k crit
Z	183.03	19.81	.336	.560	.992	183.03	7157.5	.183	1.000
Y	183.03	21.13	.358	.570	.987	183.03	8143.7	.172	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI	MZ	MY	MT	N	TZ	TY
Caso	53746.9	-670.7	15.8	6838.9	-16.3	-253.2
1- 1						

TENSIONI	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	7.1	0.0	10.5	.1	.238	0.000	.012	0.00	0.0	0.00	.4	.025	si

----- PROGR.(9) 183.03

SOLLECITAZIONI	MZ	MY	MT	N	TZ	TY
Caso	-22533.6	2310.4	15.8	7011.4	-16.3	-680.2
1- 1						

TENSIONI	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	7.3	0.0	4.4	.5	.180	0.000	.002	0.00	0.0	0.00	1.1	.066	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (21-2) 45
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	k crit
Z	193.82	20.98	.356	.569	.987	193.82	6759.2	.188	1.000
Y	193.82	22.38	.379	.580	.982	193.82	7690.5	.177	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI	MZ	MY	MT	N	TZ	TY
Caso	48514.2	1714.9	1919.0	12112.0	11.3	-683.1
1- 1						

TENSIONI	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	12.6	0.0	9.5	.4	.327	0.000	.010	.31	0.0	.31	1.1	.021	si

----- PROGR.(9) 193.82

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-118688.9	-478.4	1919.0	12302.2	11.3	-1154.0

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	12.8	0.0	23.2	.1	.471	0.000	.058	.31	0.0	.31	1.8	.030	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (4-22) 46
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

AS	L0	Lam	LamRel	k	kc
Z	183.03	19.81	.336	.560	.992
Y	183.03	21.13	.358	.570	.987

Instabilita' torsionale

L0	Scrit	LamRel	K crit
183.03	7157.5	.183	1.000
183.03	8143.7	.172	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	100235.7	780.5	141.5	-12809.8	36.3	-119.9
4-12	36224.9	-868.4	767.9	-4901.0	-32.6	-87.3

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	13.3	19.6	.2	.230	.365	.203	.02	.1	.02	.2	.001	si
4-12	0.0	5.1	7.1	.2	.046	.082	.039	.13	.1	.13	.1	.004	si

----- PROGR.(9) 183.03

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	48370.6	-5872.5	141.5	-12637.2	36.3	-546.8
4-12	5205.9	5107.6	767.9	-4821.1	-32.6	-285.0

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	13.2	9.4	1.2	.132	.265	.168	.02	.1	.02	.9	.004	si
4-12	0.0	5.0	1.0	1.1	.012	.047	.036	.13	.1	.13	.4	.004	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (22-25) 47
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

AS	L0	Lam	LamRel	k	kc
Z	183.03	19.81	.336	.560	.992
Y	183.03	21.13	.358	.570	.987

Instabilita' torsionale

L0	Scrit	LamRel	K crit
183.03	7157.5	.183	1.000
183.03	8143.7	.172	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	200718.9	-4839.5	61.1	-7220.9	15.3	-971.4

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	7.5	39.2	1.0	.424	.506	.258	.01	0.0	.01	1.5	.010	si

----- PROGR.(9) 183.03

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-6967.1	-7648.1	61.1	-7048.6	15.3	-1398.3
5- 7	-41502.9	-15817.4	-565.8	-2804.9	38.0	-597.0

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	7.3	1.4	1.6	.034	.115	.089	.01	0.0	.01	2.2	.019	si
5- 7	0.0	2.9	8.1	3.3	.066	.086	.024	.09	.1	.09	.9	.004	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (25-26) 48
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

AS	L0	Lam	LamRel	k	kc
Z	183.03	19.81	.336	.560	.992
Y	183.03	21.13	.358	.570	.987

Instabilita' torsionale

L0	Scrit	LamRel	K crit
183.03	7157.5	.183	1.000
183.03	8143.7	.172	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	106184.2	-6653.5	-284.9	34.9	-7.7	-679.1
4- 4	74395.1	-13210.7	-738.1	-60.1	-.1	-222.2
4- 5	55714.9	-9738.8	-1316.1	-40.4	-8.6	-216.2

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	0.0	20.7	1.4	.227	0.000	.047	.05	0.0	.05	1.1	.007	si
4- 4	0.0	.1	14.5	2.8	.103	.103	.009	.12	0.0	.12	.3	.004	si
4- 5	0.0	0.0	10.9	2.0	.077	.077	.005	.22	0.0	.22	.3	.007	si

----- PROGR.(9) 183.03

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
------	----	----	----	---	----	----

| 1- 1| -48053.7| -5235.6| -284.9| 207.4| -7.7| -1106.1|

TENSIONI

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	.2	0.0	9.4	1.1	.110	0.000	.010	.05	0.0	.05	1.7	.014	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (26-29) 49
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale					
AS	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit		
Z	183.03	19.81	.336	.560	.992	183.03	7157.5	.183	1.000		
Y	183.03	21.13	.358	.570	.987	183.03	8143.7	.172	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
1- 1	41786.2	-4489.3	-643.2	6808.6	-5.6	-300.4

TENSIONI

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	7.1	0.0	8.2	.9	.218	0.000	.007	.11	0.0	.11	.5	.007	si

----- PROGR.(9) 183.03

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-43121.3	-3464.9	-643.2	6981.2	-5.6	-727.3

TENSIONI

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	7.3	0.0	8.4	.7	.223	0.000	.008	.11	0.0	.11	1.1	.011	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (29-2) 50
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale					
AS	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit		
Z	193.82	20.98	.356	.569	.987	193.82	6759.2	.188	1.000		
Y	193.82	22.38	.379	.580	.982	193.82	7690.5	.177	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
1- 1	26042.2	-2986.7	-864.3	12128.9	-7.7	-657.0
5-11	19724.2	6936.3	28.9	4292.5	36.4	-282.1

TENSIONI

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	12.6	0.0	5.1	.6	.283	0.000	.003	.14	0.0	.14	1.0	.012	si
5-11	4.5	0.0	3.9	1.4	.078	0.000	.001	0.00	.1	0.00	.4	.017	si

----- PROGR.(9) 193.82

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-136026.2	-1496.4	-864.3	12319.1	-7.7	-1127.7
5-11	-52214.2	-111.8	28.9	4379.6	36.4	-497.7

TENSIONI

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	12.8	0.0	26.6	.3	.508	0.000	.077	.14	0.0	.14	1.8	.020	si
5-11	4.6	0.0	10.2	0.0	.113	0.000	.004	0.00	.1	0.00	.8	.029	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (2-20) 51
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale					
AS	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit		
Z	193.82	20.98	.356	.569	.987	193.82	6759.2	.188	1.000		
Y	193.82	22.38	.379	.580	.982	193.82	7690.5	.177	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-125738.5	-908.7	-2087.2	12158.8	23.1	901.9

TENSIONI

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	12.7	0.0	24.6	.2	.483	0.000	.065	.34	0.0	.34	1.4	.026	si

----- PROGR.(9) 193.82

SOLLECITAZIONI

Caso	MZ	MY	MT	N	TZ	TY
1- 1	14289.4	-5388.9	-2087.2	12036.5	23.1	599.3
5- 8	26072.7	-3523.8	-667.8	4189.1	15.2	281.8

TENSIONI

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	12.5	0.0	2.8	1.1	.261	0.000	.001	.34	0.0	.34	.9	.022	si
5- 8	4.4	0.0	5.1	.7	.082	0.000	.001	.11	0.0	.11	.4	.004	si

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (20-19) 52

Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale					
AS	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit		
Z	183.03	19.81	.336	.560	.992	183.03	7157.5	.183	1.000		
Y	183.03	21.13	.358	.570	.987	183.03	8143.7	.172	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	-53934.8	-4359.1	-4703.7	7036.2	1.4	793.9	

TENSIONI :											
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd
1- 1	7.3	0.0	10.5	.9	.247	0.000	.012	.77	0.0	.77	1.2

----- PROGR.(9) 183.03

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	61454.1	-4606.2	-4703.7	6924.2	1.4	516.9	

TENSIONI :											
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd
1- 1	7.2	0.0	12.0	1.0	.261	0.000	.016	.77	0.0	.77	.8

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (19-16) 53
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale					
AS	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit		
Z	183.03	19.81	.336	.560	.992	183.03	7157.5	.183	1.000		
Y	183.03	21.13	.358	.570	.987	183.03	8143.7	.172	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	-40644.6	-8488.6	3323.6	200.5	-7.3	1116.3	

TENSIONI :											
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd
1- 1	.2	0.0	7.9	1.8	.099	0.000	.007	.55	0.0	.55	1.7

----- PROGR.(9) 183.03

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	115475.2	-7148.7	3323.6	27.9	-7.3	689.4	
5- 4	77346.1	-13275.1	1764.4	-62.4	-5.8	224.7	

TENSIONI :											
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd
1- 1	0.0	0.0	22.6	1.5	.246	0.000	.055	.55	0.0	.55	1.1
5- 4	0.0	.1	15.1	2.8	.107	.107	.009	.29	0.0	.29	.4

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (16-15) 54
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale					
AS	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit		
Z	183.03	19.81	.336	.560	.992	183.03	7157.5	.183	1.000		
Y	183.03	21.13	.358	.570	.987	183.03	8143.7	.172	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	1003.5	-8403.9	2666.2	-7032.7	-16.5	1385.4	
4- 7	-39091.0	-16219.8	1468.0	-2801.4	-39.1	593.5	

TENSIONI :											
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd
1- 1	0.0	7.3	.2	1.8	.027	.108	.088	.44	0.0	.44	2.2
4- 7	0.0	2.9	7.6	3.4	.063	.084	.023	.24	.1	.24	.9

----- PROGR.(9) 183.03

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	206324.4	-5376.6	2666.2	-7205.1	-16.5	958.4	

TENSIONI :											
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd
1- 1	0.0	7.5	40.3	1.1	.436	.518	.267	.44	0.0	.44	1.5

Rettangolare (sezione n. 1; b=30; h=32) ----- ASTA (15-5) 55
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale					
AS	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit		
Z	183.03	19.81	.336	.560	.992	183.03	7157.5	.183	1.000		
Y	183.03	21.13	.358	.570	.987	183.03	8143.7	.172	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	53310.9	-6854.7	1679.2	-12616.5	-45.0	525.2

TENSIONI	StOd	ScOd	Smzd	Smyd	fsPfd	fsIfI	fsItol	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	13.1	10.4	1.4	.143	.277	.170	.28	.1	.28	.8	.017	si

----- PROGR.(9) 183.03

SOLLECITAZIONI	MZ	MY	MT	N	TZ	TY
1- 1	101217.4	1382.7	1679.2	-12789.1	-45.0	98.2

TENSIONI	StOd	ScOd	Smzd	Smyd	fsPfd	fsIfI	fsItol	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	13.3	19.8	.3	.233	.368	.203	.28	.1	.28	.2	.015	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (30-15) 64
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale					
As	LO	Lam	LamRel	k	kc	LO	Scrit	LamRel	K crit		
Z	487.07	76.69	1.300	1.446	.481	487.07	1748.3	.371	1.000		
Y	487.07	84.36	1.431	1.636	.411	487.07	2115.5	.337	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI	MZ	MY	MT	N	TZ	TY
1- 1	-95221.2	-6674.4	-646.7	-3485.3	-26.6	1301.5

TENSIONI	StOd	ScOd	Smzd	Smyd	fsPfd	fsIfI	fsItol	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	7.9	59.0	4.6	.657	.844	.607	.34	.1	.34	4.4	.095	si

----- PROGR.(9) 487.07

SOLLECITAZIONI	MZ	MY	MT	N	TZ	TY
1- 1	-107410.4	6266.0	-646.7	-3485.3	-26.6	-1216.5

TENSIONI	StOd	ScOd	Smzd	Smyd	fsPfd	fsIfI	fsItol	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	7.9	66.6	4.3	.734	.921	.710	.34	.1	.34	4.1	.086	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (31-16) 65
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale					
As	LO	Lam	LamRel	k	kc	LO	Scrit	LamRel	K crit		
Z	367.07	57.80	.980	1.048	.704	367.07	2319.9	.322	1.000		
Y	367.07	63.58	1.078	1.159	.631	367.07	2807.1	.292	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI	MZ	MY	MT	N	TZ	TY
1- 1	-31286.7	-16759.1	-18.9	-4913.7	-89.0	856.7
4-10	-11504.2	-7626.8	6.4	-1713.9	-39.8	299.3

TENSIONI	StOd	ScOd	Smzd	Smyd	fsPfd	fsIfI	fsItol	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	11.2	19.4	11.4	.303	.474	.251	.01	.3	.01	2.9	.034	si
4-10	0.0	3.9	7.1	5.2	.068	.108	.046	0.00	.1	0.00	1.0	.038	si

----- PROGR.(9) 367.07

SOLLECITAZIONI	MZ	MY	MT	N	TZ	TY
1- 1	-80959.0	15891.5	-18.9	-4913.7	-89.0	-1001.0

TENSIONI	StOd	ScOd	Smzd	Smyd	fsPfd	fsIfI	fsItol	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	11.2	50.2	10.8	.619	.791	.484	.01	.3	.01	3.4	.046	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (32-19) 66
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale					
As	LO	Lam	LamRel	k	kc	LO	Scrit	LamRel	K crit		
Z	247.07	38.90	.660	.754	.895	247.07	3446.7	.264	1.000		
Y	247.07	42.79	.726	.806	.865	247.07	4170.5	.240	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI	MZ	MY	MT	N	TZ	TY
1- 1	2566.8	-28413.6	908.3	-4783.8	-220.0	877.1

TENSIONI	StOd	ScOd	Smzd	Smyd	fsPfd	fsIfI	fsItol	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	10.9	1.6	19.4	.230	.363	.185	.48	.8	.48	3.0	.061	si

----- PROGR.(9) 247.07

SOLLECITAZIONI	MZ	MY	MT	N	TZ	TY
1- 1	-79525.5	25937.5	908.3	-4783.8	-220.0	-1088.7

TENSIONI :
 | Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIfI | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
 | 1- 1 | 0.0 | 10.9 | 49.3 | 17.7 | .659 | .787 | .413 | .48 | .8 | .48 | 3.7 | .080 | si |

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (33-20) 67
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale							Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc		L0	Scrit	LamRel	K crit
Z	127.07	20.01	.339	.561	.991		127.07	6701.5	.189	1.000
Y	127.07	22.01	.373	.577	.983		127.07	8108.8	.172	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :
 | Caso | MZ | MY | MT | N | TZ | TY |
 | 1- 1 | 46261.4 | -28884.9 | 1780.3 | -3783.0 | -450.4 | -734.9 |

TENSIONI :
 | Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIfI | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
 | 1- 1 | 0.0 | 8.6 | 28.7 | 19.7 | .453 | .546 | .193 | .95 | 1.5 | .95 | 2.5 | .075 | si |

----- PROGR.(9) 127.07

SOLLECITAZIONI :
 | Caso | MZ | MY | MT | N | TZ | TY |
 | 1- 1 | -47971.4 | 28320.3 | 1780.3 | -3783.0 | -450.4 | -749.1 |

TENSIONI :
 | Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIfI | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
 | 1- 1 | 0.0 | 8.6 | 29.7 | 19.3 | .461 | .554 | .200 | .95 | 1.5 | .95 | 2.6 | .076 | si |

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (34-23) 68
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale							Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc		L0	Scrit	LamRel	K crit
Z	487.07	76.69	1.300	1.446	.481		487.07	1748.3	.371	1.000
Y	487.07	84.36	1.431	1.636	.411		487.07	2115.5	.337	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :
 | Caso | MZ | MY | MT | N | TZ | TY |
 | 1- 1 | -96698.0 | -6555.1 | -516.2 | -3393.1 | -29.3 | 1309.5 |

TENSIONI :
 | Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIfI | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
 | 1- 1 | 0.0 | 7.7 | 59.9 | 4.5 | .665 | .848 | .613 | .27 | .1 | .27 | 4.5 | .093 | si |

----- PROGR.(9) 487.07

SOLLECITAZIONI :
 | Caso | MZ | MY | MT | N | TZ | TY |
 | 1- 1 | -116053.3 | 7721.1 | -516.2 | -3393.1 | -29.3 | -1299.8 |

TENSIONI :
 | Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIfI | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
 | 1- 1 | 0.0 | 7.7 | 71.9 | 5.3 | .796 | .978 | .785 | .27 | .1 | .27 | 4.4 | .091 | si |

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (35-24) 69
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale							Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc		L0	Scrit	LamRel	K crit
Z	367.07	57.80	.980	1.048	.704		367.07	2319.9	.322	1.000
Y	367.07	63.58	1.078	1.159	.631		367.07	2807.1	.292	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :
Caso	MZ	MY	MT	N	TZ	TY
1- 1	-32226.0	-15758.4	109.1	-4889.8	-88.2	853.8
4-12	-11330.8	-6264.7	16.2	-1655.0	-34.1	295.4

TENSIONI :
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	11.1	20.0	10.7	.304	.474	.253	.06	.3	.06	2.9	.036	si
4-12	0.0	3.8	7.0	4.3	.063	.101	.044	.01	.1	.01	1.0	.038	si

----- PROGR.(9) 367.07

SOLLECITAZIONI :
 | Caso | MZ | MY | MT | N | TZ | TY |
 | 1- 1 | -82973.1 | 16607.9 | 109.1 | -4889.8 | -88.2 | -1003.9 |

TENSIONI :
 | Caso | St0d | Sc0d | Smzd | Smyd | fsPfd | fsIfI | fsIt0 | Ttozd | Tzd | Ttoyd | Tyd | fsTau | VE |
 | 1- 1 | 0.0 | 11.1 | 51.4 | 11.3 | .636 | .806 | .497 | .06 | .3 | .06 | 3.4 | .049 | si |

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (36-27) 70
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale							Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc		L0	Scrit	LamRel	K crit
Z	247.07	38.90	.660	.754	.895		247.07	3446.7	.264	1.000

Y	247.07	42.79	.726	.806	.865			247.07	4170.5	.240	1.000
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----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	15237.3	-24800.0	995.8	-4761.8	-202.9	323.3

TENSIONI :

Caso	StOd	ScOd	Smzd	Smyd	fsPfd	fsIfI	fsItO	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	10.8	9.4	16.9	.262	.394	.175	.53	.7	.53	1.1	.033	si

----- PROGR.(9) 247.07

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-66300.1	25324.1	995.8	-4761.8	-202.9	-874.2

TENSIONI :

Caso	StOd	ScOd	Smzd	Smyd	fsPfd	fsIfI	fsItO	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	10.8	41.1	17.3	.571	.698	.332	.53	.7	.53	3.0	.063	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (37-28) 71
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	k crit
Z	127.07	20.01	.339	.561	.991	127.07	6701.5	.189	1.000
Y	127.07	22.01	.373	.577	.983	127.07	8108.8	.172	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	37481.7	-27596.7	1722.6	-3784.3	-437.4	-400.9

TENSIONI :

Caso	StOd	ScOd	Smzd	Smyd	fsPfd	fsIfI	fsItO	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	8.6	23.2	18.8	.390	.483	.163	.92	1.5	.92	1.4	.058	si

----- PROGR.(9) 127.07

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-51416.8	27950.8	1722.6	-3784.3	-437.4	-938.7

TENSIONI :

Caso	StOd	ScOd	Smzd	Smyd	fsPfd	fsIfI	fsItO	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	8.6	31.9	19.1	.481	.574	.214	.92	1.5	.92	3.2	.089	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (38-29) 72
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	k crit
Z	127.07	20.01	.339	.561	.991	127.07	6701.5	.189	1.000
Y	127.07	22.01	.373	.577	.983	127.07	8108.8	.172	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	37181.8	27113.1	-1669.1	-3829.1	427.3	-392.0

TENSIONI :

Caso	StOd	ScOd	Smzd	Smyd	fsPfd	fsIfI	fsItO	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	8.7	23.0	18.5	.386	.479	.163	.89	1.5	.89	1.3	.056	si

----- PROGR.(9) 127.07

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-50582.9	-27150.8	-1669.1	-3829.1	427.3	-929.7

TENSIONI :

Caso	StOd	ScOd	Smzd	Smyd	fsPfd	fsIfI	fsItO	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	8.7	31.4	18.5	.472	.566	.212	.89	1.5	.89	3.2	.087	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (39-26) 73
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	k crit
Z	247.07	38.90	.660	.754	.895	247.07	3446.7	.264	1.000
Y	247.07	42.79	.726	.806	.865	247.07	4170.5	.240	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	14327.7	24258.4	-932.2	-4742.8	196.4	334.4

TENSIONI :

Caso	StOd	ScOd	Smzd	Smyd	fsPfd	fsIfI	fsItO	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	10.8	8.9	16.5	.254	.385	.173	.50	.7	.50	1.1	.032	si

----- PROGR.(9) 247.07

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-64455.5	-24249.6	-932.2	-4742.8	196.4	-863.0

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	10.8	40.0	16.5	.553	.680	.322	.50	.7	.50	2.9	.060	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (40-25) 74
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

AS	L0	Lam	LamRel	k	kc
Z	367.07	57.80	.980	1.048	.704
Y	367.07	63.58	1.078	1.159	.631

Instabilita' torsionale

L0	Scrit	LamRel	K crit
367.07	2319.9	.322	1.000
367.07	2807.1	.292	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-33476.0	15416.7	-42.3	-4940.2	83.8	865.0
4- 7	-11753.9	6157.3	6.2	-1673.4	32.6	299.2

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	11.2	20.7	10.5	.311	.483	.258	.02	.3	.02	2.9	.035	si
4- 7	0.0	3.8	7.3	4.2	.065	.102	.045	0.00	.1	0.00	1.0	.038	si

----- PROGR.(9) 367.07

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-80118.1	-15344.5	-42.3	-4940.2	83.8	-992.7

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	11.2	49.7	10.5	.611	.783	.479	.02	.3	.02	3.4	.046	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (41-22) 75
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

AS	L0	Lam	LamRel	k	kc
Z	487.07	76.69	1.300	1.446	.481
Y	487.07	84.36	1.431	1.636	.411

Instabilita' torsionale

L0	Scrit	LamRel	K crit
487.07	1748.3	.371	1.000
487.07	2115.5	.337	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-95744.5	6276.3	587.6	-3481.1	25.5	1302.6

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	7.9	59.3	4.3	.658	.845	.611	.31	.1	.31	4.4	.094	si

----- PROGR.(9) 487.07

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-107388.9	-6151.7	587.6	-3481.1	25.5	-1215.3

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	7.9	66.6	4.2	.733	.920	.710	.31	.1	.31	4.1	.084	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (42-28) 77
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

AS	L0	Lam	LamRel	k	kc
Z	127.07	20.01	.339	.561	.991
Y	127.07	22.01	.373	.577	.983

Instabilita' torsionale

L0	Scrit	LamRel	K crit
127.07	6701.5	.189	1.000
127.07	8108.8	.172	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	37853.7	27732.2	-1707.4	-3818.5	435.0	-398.9

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	8.7	23.5	18.9	.393	.487	.165	.91	1.5	.91	1.4	.057	si

----- PROGR.(9) 127.07

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-50788.3	-27516.4	-1707.4	-3818.5	435.0	-936.6

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	8.7	31.5	18.8	.475	.569	.213	.91	1.5	.91	3.2	.089	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (43-27) 78
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale							Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc		L0	Scrit	LamRel	K crit
Z	247.07	38.90	.660	.754	.895		247.07	3446.7	.264	1.000
Y	247.07	42.79	.726	.806	.865		247.07	4170.5	.240	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
1- 1	15076.1	24825.6	-945.0	-4740.6	199.9	330.3

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	10.8	9.3	16.9	.261	.393	.174	.50	.7	.50	1.1	.032	si

----- PROGR.(9) 247.07

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
1- 1	-64732.6	-24556.3	-945.0	-4740.6	199.9	-867.2

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	10.8	40.1	16.7	.556	.683	.323	.50	.7	.50	3.0	.061	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (44-24) 79
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale							Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc		L0	Scrit	LamRel	K crit
Z	367.07	57.80	.980	1.048	.704		367.07	2319.9	.322	1.000
Y	367.07	63.58	1.078	1.159	.631		367.07	2807.1	.292	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
1- 1	-32657.1	15816.8	-17.5	-4890.3	85.0	862.3

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	11.1	20.2	10.8	.307	.477	.254	.01	.3	.01	2.9	.184	si

----- PROGR.(9) 367.07

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
1- 1	-80302.1	-15391.5	-17.5	-4890.3	85.0	-995.5

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	11.1	49.8	10.5	.613	.783	.478	.01	.3	.01	3.4	.212	si

Rettangolare (sezione n. 3; b=20; h=22) ----- ASTA (45-23) 80
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale							Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc		L0	Scrit	LamRel	K crit
Z	487.07	76.69	1.300	1.446	.481		487.07	1748.3	.371	1.000
Y	487.07	84.36	1.431	1.636	.411		487.07	2115.5	.337	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
1- 1	-97206.3	6598.5	653.8	-3446.5	25.4	1319.0

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	7.8	60.3	4.5	.669	.854	.621	.35	.1	.35	4.5	.098	si

----- PROGR.(9) 487.07

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
1- 1	-111817.8	-5772.9	653.8	-3446.5	25.4	-1286.8

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	7.8	69.3	3.9	.759	.944	.748	.35	.1	.35	4.4	.094	si

Rettangolare (sezione n. 2; b=24; h=32) ----- ASTA (10-41) 81
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale							Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc		L0	Scrit	LamRel	K crit
Z	138.21	14.96	.254	.528	1.010		138.21	6297.5	.195	1.000
Y	138.21	19.95	.338	.561	.991		138.21	11196.	.146	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
1- 1	-1397.6	671.2	-57.3	-2082.0	14.8	2311.1
5- 7	-473.9	3353.8	-303.5	-792.5	78.2	792.3

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	7.8	69.3	3.9	.759	.944	.748	.35	.1	.35	4.4	.094	si

1-	1	0.0	2.7	.3	.2	.006	.037	.033	.01	0.0	.01	4.5	.080	si
5-	7	0.0	1.0	.1	1.1	.007	.015	.007	.07	.2	.07	1.5	.006	si

----- PROGR.(9) 138.21

SOLLECITAZIONI														
Caso		MZ		MY		MT		N		TZ		TY		
1- 1		314948.8		-1376.6		-57.3		-2056.3		14.8		2266.2		

TENSIONI														
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsItol	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE	
1- 1	0.0	2.7	76.9	.4	.805	.836	.674	.01	0.0	.01	4.4	.077	si	

Rettangolare (sezione n. 2; b=24; h=32) ----- ASTA (41-40) 82
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale					
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit		
Z	138.21	14.96	.254	.528	1.010	138.21	6297.5	.195	1.000		
Y	138.21	19.95	.338	.561	.991	138.21	11196.	.146	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI														
Caso		MZ		MY		MT		N		TZ		TY		
1- 1		313796.1		-472.2		-99.1		-715.2		10.4		30.8		
4- 7		123774.5		964.4		21.4		-181.7		-16.8		63.9		

TENSIONI														
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsItol	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE	
1- 1	0.0	.9	76.6	.2	.799	.810	.648	.02	0.0	.02	.1	.001	si	
4- 7	0.0	.2	30.2	.3	.190	.192	.037	.01	0.0	.01	.1	.005	si	

----- PROGR.(6) 86.38

SOLLECITAZIONI														
Caso		MZ		MY		MT		N		TZ		TY		
1- 1		315244.7		-1370.6		-99.1		-699.1		10.4		2.7		
5- 2		116443.1		-4399.8		-411.6		-225.7		27.0		13.7		

TENSIONI														
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsItol	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE	
1- 1	0.0	.9	77.0	.4	.805	.816	.654	.02	0.0	.02	0.0	.001	si	
5- 2	0.0	.3	28.4	1.4	.184	.186	.034	.10	.1	.10	0.0	.003	si	

----- PROGR.(8) 120.93

SOLLECITAZIONI														
Caso		MZ		MY		MT		N		TZ		TY		
1- 1		315145.1		-1730.0		-99.1		-692.7		10.4		-8.5		
4-16		92941.4		2008.9		36.9		-325.6		-10.7		-47.7		

TENSIONI														
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsItol	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE	
1- 1	0.0	.9	76.9	.6	.806	.816	.653	.02	0.0	.02	0.0	.001	si	
4-16	0.0	.4	22.7	.7	.145	.148	.023	.01	0.0	.01	.1	.003	si	

----- PROGR.(9) 138.21

SOLLECITAZIONI														
Caso		MZ		MY		MT		N		TZ		TY		
1- 1		314949.9		-1909.7		-99.1		-689.5		10.4		-14.1		
4-16		92080.8		2193.7		36.9		-323.1		-10.7		-52.0		

TENSIONI														
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsItol	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE	
1- 1	0.0	.9	76.9	.6	.806	.816	.652	.02	0.0	.02	0.0	.001	si	
4-16	0.0	.4	22.5	.7	.144	.147	.023	.01	0.0	.01	.1	.004	si	

Rettangolare (sezione n. 2; b=24; h=32) ----- ASTA (40-39) 83
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale					
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit		
Z	138.21	14.96	.254	.528	1.010	138.21	6297.5	.195	1.000		
Y	138.21	19.95	.338	.561	.991	138.21	11196.	.146	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI														
Caso		MZ		MY		MT		N		TZ		TY		
1- 1		315066.8		-989.0		-156.0		319.7		5.1		-1432.1		
4- 7		130211.8		1814.5		-5.0		76.1		-8.8		-518.2		

TENSIONI														
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsItol	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE	
1- 1	.4	0.0	76.9	.3	.811	0.000	.642	.04	0.0	.04	2.8	.033	si	
4- 7	.1	0.0	31.8	.6	.202	0.000	.039	0.00	0.0	0.00	1.0	.038	si	

----- PROGR.(9) 138.21

SOLLECITAZIONI														
Caso		MZ		MY		MT		N		TZ		TY		
1- 1		114004.1		-1696.6		-156.0		345.4		5.1		-1477.1		
4- 7		56194.8		3036.9		-5.0		95.8		-8.8		-552.8		

TENSIONI														
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIfI	fsItol	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE	

1- 1	.4	0.0	27.8	.6	.302	0.000	.084	.04	0.0	.04	2.9	.034	si
4- 7	.1	0.0	13.7	1.0	.091	0.000	.007	0.00	0.0	0.00	1.1	.040	si

Rettangolare (sezione n. 2; b=24; h=32) ----- ASTA (39-38) 84
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale					
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit		
Z	138.21	14.96	.254	.528	1.010	138.21	6297.5	.195	1.000		
Y	138.21	19.95	.338	.561	.991	138.21	11196.	.146	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	115913.1	-882.7	-204.7	1025.0	4.6	-1861.1	

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	1.3	0.0	28.3	.3	.321	0.000	.087	.05	0.0	.05	3.6	.054	si

----- PROGR.(9) 138.21

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	-144438.8	-1523.0	-204.7	1050.7	4.6	-1906.0	

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	1.4	0.0	35.3	.5	.395	0.000	.135	.05	0.0	.05	3.7	.057	si

Rettangolare (sezione n. 2; b=24; h=32) ----- ASTA (38-2) 85
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit
Z	146.35	15.84	.269	.533	1.007	146.35	5947.1	.201	1.000
Y	146.35	21.12	.358	.570	.987	146.35	10573.	.151	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	-141033.7	-875.2	-243.2	1413.9	2.0	-795.6	
4- 8	-43066.1	813.0	-7.1	384.6	5.7	-347.6	

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	1.8	0.0	34.4	.3	.394	0.000	.129	.06	0.0	.06	1.6	.012	si
4- 8	.5	0.0	10.5	.3	.072	0.000	.004	0.00	0.0	0.00	.7	.025	si

----- PROGR.(9) 146.35

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	-260974.4	-1171.5	-243.2	1441.0	2.0	-843.2	
4- 8	-96625.8	-26.1	-7.1	405.5	5.7	-384.2	

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	1.9	0.0	63.7	.4	.700	0.000	.440	.06	0.0	.06	1.6	.014	si
4- 8	.5	0.0	23.6	0.0	.153	0.000	.022	0.00	0.0	0.00	.8	.028	si

Rettangolare (sezione n. 2; b=24; h=32) ----- ASTA (11-30) 86
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit
Z	138.21	14.96	.254	.528	1.010	138.21	6297.5	.195	1.000
Y	138.21	19.95	.338	.561	.991	138.21	11196.	.146	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	-1503.3	-524.8	-154.0	-2166.4	-10.7	2383.6	
4- 5	-548.2	-3315.7	238.2	-712.5	-77.0	877.0	

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	2.8	.4	.2	.006	.038	.034	.04	0.0	.04	4.7	.087	si
4- 5	0.0	.9	.1	1.1	.007	.014	.007	.06	.2	.06	1.7	.006	si

----- PROGR.(9) 138.21

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	324861.0	960.6	-154.0	-2140.7	-10.7	2338.7	

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	2.8	79.3	.3	.830	.861	.716	.04	0.0	.04	4.6	.083	si

Rettangolare (sezione n. 2; b=24; h=32) ----- ASTA (30-31) 87
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

Instabilita' torsionale

AS	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit
Z	138.21	14.96	.254	.528	1.010	138.21	6297.5	.195	1.000
Y	138.21	19.95	.338	.561	.991	138.21	11196.	.146	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	323580.6	230.6	-534.3	-799.6	-12.1	105.2	

TENSIONI :													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	1.0	79.0	.1	.824	.836	.690	.13	0.0	.13	.2	.007	si

----- PROGR.(9) 138.21

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	335012.8	1899.0	-534.3	-773.9	-12.1	60.3	

TENSIONI :													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	1.0	81.8	.6	.857	.868	.738	.13	0.0	.13	.1	.007	si

Rettangolare (sezione n. 2; b=24; h=32) ----- ASTA (31-32) 88
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale					Instabilita' torsionale				
AS	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit
Z	138.21	14.96	.254	.528	1.010	138.21	6297.5	.195	1.000
Y	138.21	19.95	.338	.561	.991	138.21	11196.	.146	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	335011.8	1144.3	-2287.0	235.2	33.1	-1344.3	

TENSIONI :													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	.3	0.0	81.8	.4	.860	0.000	.726	.55	.1	.55	2.6	.056	si

----- PROGR.(9) 138.21

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	146096.4	-3434.0	-2287.0	260.9	33.1	-1389.2	

TENSIONI :													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	.3	0.0	35.7	1.1	.386	0.000	.138	.55	.1	.55	2.7	.058	si

Rettangolare (sezione n. 2; b=24; h=32) ----- ASTA (32-33) 89
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale					Instabilita' torsionale				
AS	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit
Z	138.21	14.96	.254	.528	1.010	138.21	6297.5	.195	1.000
Y	138.21	19.95	.338	.561	.991	138.21	11196.	.146	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	148005.3	4667.1	3732.8	1233.9	8.7	-2240.9	

TENSIONI :													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	1.6	0.0	36.1	1.5	.416	0.000	.142	.90	0.0	.90	4.4	.122	si

----- PROGR.(9) 138.21

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	-164853.3	3467.2	3732.8	1259.5	8.7	-2285.9	

TENSIONI :													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	1.6	0.0	40.2	1.1	.457	0.000	.176	.90	0.0	.90	4.5	.125	si

Rettangolare (sezione n. 2; b=24; h=32) ----- ASTA (33-2) 90
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale					Instabilita' torsionale				
AS	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit
Z	146.35	15.84	.269	.533	1.007	146.35	5947.1	.201	1.000
Y	146.35	21.12	.358	.570	.987	146.35	10573.	.151	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	-161240.2	-47.2	-29.8	1472.3	-10.2	-808.1	

TENSIONI :													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	1.9	0.0	39.4	0.0	.444	0.000	.168	.01	0.0	.01	1.6	.099	si

----- PROGR.(9) 146.35

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-283014.3	1450.9	-29.8	1499.5	-10.2	-855.7

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	2.0	0.0	69.1	.5	.758	0.000	.518	.01	0.0	.01	1.7	.104	si

Rettangolare (sezione n. 2; b=24; h=32) ----- ASTA (2-37) 91
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

As	L0	Lam	LamRel	k	kc
Z	146.35	15.84	.269	.533	1.007
Y	146.35	21.12	.358	.570	.987

Instabilita' torsionale

L0	Scrit	LamRel	k crit
146.35	5947.1	.201	1.000
146.35	10573.	.151	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-262526.2	-57.4	-22.7	1465.9	.1	802.5

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	1.9	0.0	64.1	0.0	.702	0.000	.446	.01	0.0	.01	1.6	.098	si

----- PROGR.(9) 146.35

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-148611.2	-72.7	-22.7	1438.7	.1	754.9

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	1.9	0.0	36.3	0.0	.412	0.000	.143	.01	0.0	.01	1.5	.092	si

Rettangolare (sezione n. 2; b=24; h=32) ----- ASTA (37-36) 92
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

As	L0	Lam	LamRel	k	kc
Z	138.21	14.96	.254	.528	1.010
Y	138.21	19.95	.338	.561	.991

Instabilita' torsionale

L0	Scrit	LamRel	k crit
138.21	6297.5	.195	1.000
138.21	11196.	.146	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-152055.1	-117.7	-25.5	1076.4	16.1	1890.0

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	1.4	0.0	37.1	0.0	.412	0.000	.150	.01	0.0	.01	3.7	.231	si

----- PROGR.(9) 138.21

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	106077.3	-2349.5	-25.5	1050.7	16.1	1845.0

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	1.4	0.0	25.9	.8	.300	0.000	.073	.01	0.0	.01	3.6	.225	si

Rettangolare (sezione n. 2; b=24; h=32) ----- ASTA (36-35) 93
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

As	L0	Lam	LamRel	k	kc
Z	138.21	14.96	.254	.528	1.010
Y	138.21	19.95	.338	.561	.991

Instabilita' torsionale

L0	Scrit	LamRel	k crit
138.21	6297.5	.195	1.000
138.21	11196.	.146	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	104041.9	-3138.5	-205.9	371.0	-2.7	1489.7
4-13	52867.6	-4419.6	-17.5	109.7	-10.7	557.1

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	.5	0.0	25.4	1.0	.281	0.000	.070	.05	0.0	.05	2.9	.036	si
4-13	.1	0.0	12.9	1.4	.088	0.000	.007	0.00	0.0	0.00	1.1	.041	si

----- PROGR.(9) 138.21

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	306853.1	-2759.2	-205.9	345.3	-2.7	1444.8
4-13	127482.7	-2946.1	-17.5	89.9	-10.7	522.5

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	.4	0.0	74.9	.9	.795	0.000	.609	.05	0.0	.05	2.8	.034	si
4-13	.1	0.0	31.1	1.0	.200	0.000	.038	0.00	0.0	0.00	1.0	.038	si

Rettangolare (sezione n. 2; b=24; h=32) ----- ASTA (35-34) 94
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit
Z	138.21	14.96	.254	.528	1.010	138.21	6297.5	.195	1.000
Y	138.21	19.95	.338	.561	.991	138.21	11196.	.146	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	306628.1	-4329.6	-47.6	-664.0	-9.1	45.1	
4- 5	89295.1	-5317.7	39.1	-318.4	-23.1	62.2	

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	.9	74.9	1.4	.790	.800	.618	.01	0.0	.01	.1	.001	si
4- 5	0.0	.4	21.8	1.7	.144	.147	.022	.01	0.0	.01	.1	.005	si

----- PROGR.(8) 120.93

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	309703.5	-3233.3	-47.6	-686.5	-9.1	5.8	
5-10	104945.9	1167.2	-396.0	-276.1	19.7	3.4	

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	.9	75.6	1.1	.795	.806	.631	.01	0.0	.01	0.0	.001	si
5-10	0.0	.4	25.6	.4	.162	.164	.028	.10	0.0	.10	0.0	.003	si

----- PROGR.(9) 138.21

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	309754.8	-3076.7	-47.6	-689.7	-9.1	.2	
5-10	104967.4	826.3	-396.0	-278.5	19.7	-9.9	

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	.9	75.6	1.0	.795	.806	.631	.01	0.0	.01	0.0	.001	si
5-10	0.0	.4	25.6	.3	.161	.164	.028	.10	0.0	.10	0.0	.003	si

Rettangolare (sezione n. 2; b=24; h=32) ----- ASTA (34-12) 95
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit
Z	138.21	14.96	.254	.528	1.010	138.21	6297.5	.195	1.000
Y	138.21	19.95	.338	.561	.991	138.21	11196.	.146	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	310803.6	-3818.8	-1803.2	-2039.7	-54.5	-2235.4	

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	2.7	75.9	1.2	.800	.831	.657	.44	.1	.44	4.4	.097	si

----- PROGR.(9) 138.21

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	-1281.4	3718.0	-1803.2	-2065.4	-54.5	-2280.3	

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	2.7	.3	1.2	.016	.047	.032	.44	.1	.44	4.5	.100	si

Rettangolare (sezione n. 2; b=24; h=32) ----- ASTA (2-42) 96
 Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale			
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	K crit
Z	146.35	15.84	.269	.533	1.007	146.35	5947.1	.201	1.000
Y	146.35	21.12	.358	.570	.987	146.35	10573.	.151	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	-270151.3	-302.2	69.9	1467.3	-5.9	845.1	
5-13	-99499.2	100.4	-16.1	420.4	-10.1	383.7	

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	1.9	0.0	66.0	.1	.722	0.000	.472	.02	0.0	.02	1.7	.012	si
5-13	.5	0.0	24.3	0.0	.158	0.000	.023	0.00	0.0	0.00	.7	.028	si

----- PROGR.(9) 146.35

SOLLECITAZIONI							
Caso	MZ	MY	MT	N	TZ	TY	
1- 1	-150001.2	562.6	69.9	1440.1	-5.9	797.6	
5-13	-46041.7	1577.3	-16.1	399.5	-10.1	347.1	

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	1.9	0.0	36.6	.2	.416	0.000	.146	.02	0.0	.02	1.6	.010	si
5-13	.5	0.0	11.2	.5	.078	0.000	.005	0.00	0.0	0.00	.7	.025	si

Rettangolare (sezione n. 2; b=24; h=32) ----- ASTA (42-43) 97
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

AS	L0	Lam	LamRel	k	kc
Z	138.21	14.96	.254	.528	1.010
Y	138.21	19.95	.338	.561	.991

Instabilita' torsionale

L0	Scrit	LamRel	k crit
138.21	6297.5	.195	1.000
138.21	11196.	.146	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	-153411.3	795.5	-108.3	1077.0	-1.7	1919.0

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	1.4	0.0	37.5	.3	.417	0.000	.152	.03	0.0	.03	3.7	.056	si

----- PROGR.(9) 138.21

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	108739.8	1032.3	-108.3	1051.3	-1.7	1874.1

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	1.4	0.0	26.5	.3	.303	0.000	.076	.03	0.0	.03	3.7	.054	si

Rettangolare (sezione n. 2; b=24; h=32) ----- ASTA (43-44) 98
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

AS	L0	Lam	LamRel	k	kc
Z	138.21	14.96	.254	.528	1.010
Y	138.21	19.95	.338	.561	.991

Instabilita' torsionale

L0	Scrit	LamRel	k crit
138.21	6297.5	.195	1.000
138.21	11196.	.146	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	106828.6	1609.1	-458.1	371.6	-3.3	1497.5
5-15	53733.6	364.8	-31.0	110.1	.2	559.3

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	.5	0.0	26.1	.5	.284	0.000	.074	.11	0.0	.11	2.9	.039	si
5-15	.1	0.0	13.1	.1	.084	0.000	.007	.01	0.0	.01	1.1	.041	si

----- PROGR.(9) 138.21

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	310716.7	2071.0	-458.1	345.9	-3.3	1452.6
5-15	128659.5	347.1	-31.0	90.3	.2	524.8

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	.5	0.0	75.9	.7	.803	0.000	.624	.11	0.0	.11	2.8	.037	si
5-15	.1	0.0	31.4	.1	.198	0.000	.039	.01	0.0	.01	1.0	.038	si

Rettangolare (sezione n. 2; b=24; h=32) ----- ASTA (44-45) 99
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale

AS	L0	Lam	LamRel	k	kc
Z	138.21	14.96	.254	.528	1.010
Y	138.21	19.95	.338	.561	.991

Instabilita' torsionale

L0	Scrit	LamRel	k crit
138.21	6297.5	.195	1.000
138.21	11196.	.146	1.000

----- PROGR.(1) 0.00

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	310625.4	3103.5	-1261.5	-663.4	8.6	37.7

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	.9	75.8	1.0	.797	.808	.634	.31	0.0	.31	.1	.016	si

----- PROGR.(6) 86.38

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	312666.2	2359.1	-1261.5	-679.4	8.6	9.6

TENSIONI :

Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIt0	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	.9	76.3	.8	.801	.811	.643	.31	0.0	.31	0.0	.016	si

----- PROGR.(8) 120.93

SOLLECITAZIONI :

Caso	MZ	MY	MT	N	TZ	TY
1- 1	312803.6	2061.4	-1261.5	-685.8	8.6	-1.6

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIto	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	.9	76.4	.7	.801	.811	.644	.31	0.0	.31	0.0	.016	si

----- PROGR.(9) 138.21

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
1- 1	312726.8	1912.5	-1261.5	-689.0	8.6	-7.3

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIto	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	.9	76.3	.6	.800	.810	.643	.31	0.0	.31	0.0	.016	si

Rettangolare (sezione n. 2; b=24; h=32) ----- ASTA (45-13) 100
Khz= 1 ; Khy= 1 ; Kht= 1

Instabilita' flessionale						Instabilita' torsionale					
As	L0	Lam	LamRel	k	kc	L0	Scrit	LamRel	k crit		
Z	138.21	14.96	.254	.528	1.010	138.21	6297.5	.195	1.000		
Y	138.21	19.95	.338	.561	.991	138.21	11196.	.146	1.000		

----- PROGR.(1) 0.00

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
1- 1	313940.8	2042.1	-1118.7	-2039.0	10.5	-2259.6

TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIto	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	2.7	76.6	.7	.804	.835	.669	.27	0.0	.27	4.4	.090	si

----- PROGR.(9) 138.21

SOLLECITAZIONI						
Caso	MZ	MY	MT	N	TZ	TY
1- 1	-1494.4	594.5	-1118.7	-2064.7	10.5	-2304.5
4-15	-543.4	3292.7	-84.2	-682.1	-69.2	-849.1

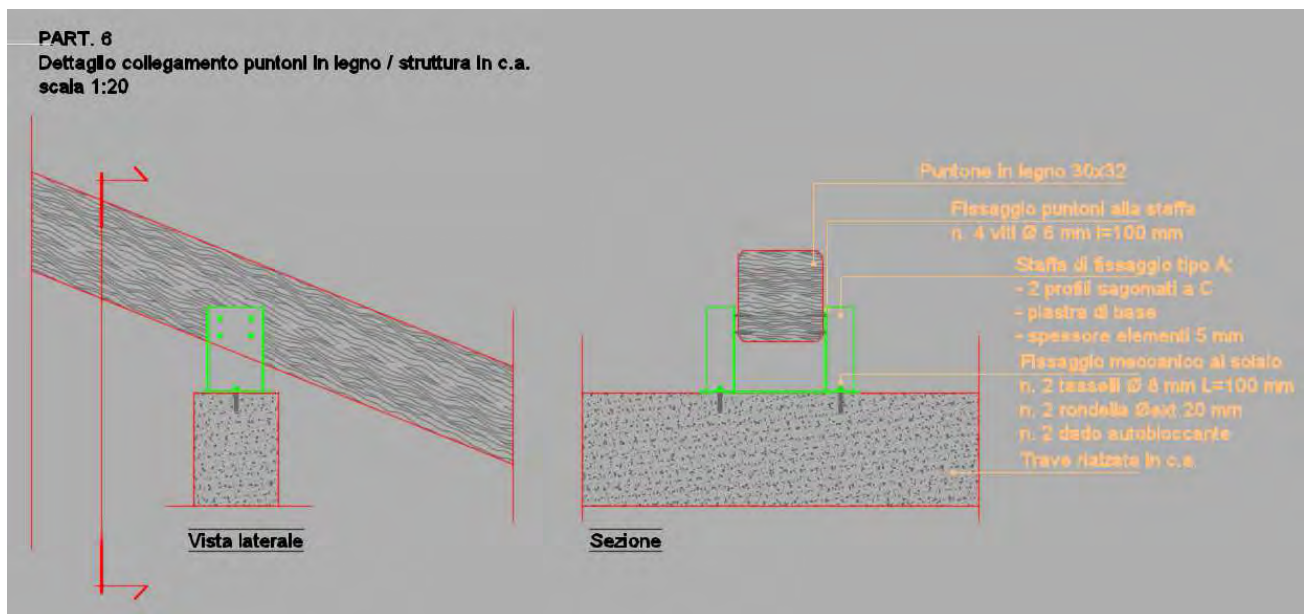
TENSIONI													
Caso	St0d	Sc0d	Smzd	Smyd	fsPfd	fsIf1	fsIto	Ttozd	Tzd	Ttoyd	Tyd	fsTau	VE
1- 1	0.0	2.7	.4	.2	.006	.037	.032	.27	0.0	.27	4.5	.093	si
4-15	0.0	.9	.1	1.1	.007	.014	.006	.02	.1	.02	1.7	.005	si

VERIFICA COLLEGAMENTI

I collegamenti tra:

- trave secondaria e la trave principale (questa tipologia di collegamento viene realizzata mediante l'uso di viti da legno)
- cantonale e puntone e la sottostante struttura in c.a.

Lo schema statico adottato (trave inclinata vincolata alle estremità) determina la necessità di inserire questi elementi di connessione che risultano sottoposti ad azione di taglio sul piano perpendicolare all'asse della vite. Poiché si tratta di prodotti commerciali la scelta delle caratteristiche della vite viene fatta per confronto tra le sollecitazioni di calcolo e quelle resistenti individuabili nella documentazione tecnica di prodotto.



La soluzione progettuale prevede la connessione tra gli elementi senza la realizzazione di intagli, in modo tale da non ridurre le sezioni e evitare punti di discontinuità nella distribuzione delle sollecitazioni.

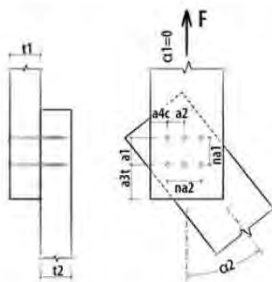
Le travi/cantionali, (poste lungo le bisettrici degli spigoli del fabbricato), e i puntone sono definite come travi con vincolo a cerniere alle estremità.

Il collegamento puntone – cantonale è realizzato senza sormonto tra le travi e mediante unione con viti (unione a taglio)

La verifica della connessione (consistente nella determinazione del numero di viti necessarie per il trasferimento delle azioni) è condotta adottando un coefficiente di sicurezza pari a 1.5 , applicato sui valori massimi delle reazioni vincolari desunte dal modello di calcolo.

Gli elementi puntoni e cantonali sono quindi sottoposti a pressoflessione (azione spingente) che viene equilibrata al vincolo lato gronda con il solaio di piano sottotetto. Tale vincolo, realizzato mediante piastre con viti lato legno e con tasselli meccanici lato c.a. sottoposte a taglio, permette di ridistribuire sulla superficie del solaio l'azione spingente della copertura.

CONNESSIONE A TAGLIO CON VITI (Connessione legno-legno / taglio singolo)



Vite tipo Viti per legno HBS 8x280 mm - (cod. HBS8280)
(numero viti: 3 x 3 = 9 pz.)



Certificazione: ETA 11/0030

DATI DI CALCOLO

Connessione legno-legno / taglio singolo

Classe di servizio	(cl)	=	classe1
Durata carico dominante	(tq)	=	breve
coefficiente kmod	(kmod)	=	0.90
coefficiente sicurezza connessione	yM	=	1.50
Diametro nominale/filetto vite	(Ø)	=	8.0 mm
Diametro gambo	(Øg)	=	8.0 mm
Diametro nocciolo	(Øn)	=	5.4 mm
Diametro testa	(Øh)	=	14.5 mm
Lunghezza vite	(Lv)	=	280 mm
Lunghezza filetto	(Øn)	=	80 mm
Spessore legno elemento 1	(t1)	=	180 mm
Angolo elemento 1	(α1)	=	0.00°
Qualità legno elemento 1		=	Lamellare GL24h (omogeneo)
Spessore legno elemento 2	(t2)	=	100 mm
Angolo elemento 2	(α2)	=	0.00°
Qualità legno elemento 2		=	Lamellare GL24h (omogeneo)
Numero elementi paralleli alle fibre	nf	=	3
Distanza elementi paralleli alle fibre	(df)	=	150 mm
Numero elementi perpendicolari alle fibre	nc	=	3
Distanza elementi perpendicolari alle fibre	(dc)	=	150 mm
Forza di taglio di progetto da verificare	(Fvd)	=	15.00 KN

NOTE

Prima dell'esecuzione, tutti i calcoli devono essere verificati e approvati dal progettista responsabile.
Per i valori di resistenza meccanica e per la geometria si fa riferimento a quanto riportato nei certificati di prodotto.
Le verifiche di resistenza degli elementi lignei devono essere svolte a parte.

RISULTATI CALCOLO

DATI INGRESSO:

Classe di servizio
Durata carico dominante
coefficiente k_{mod}
coefficiente sicurezza connessione
Tipo legno elemento t1
Massa volumetrica legno
Tipo legno elemento t2
Massa volumetrica legno
Tipo acciaio
coeff. sicurezza acciaio
Spessore elemento 1
Spessore elemento 2
Angolo elemento 1
Angolo elemento 2
Numero file viti
Distanza file
Numero colonne viti
Distanza colonne

=
cl = 1
tq = breve
kmod = 0.90
yM = 1.5
= GL24h
rk = 380 Kg/m3
= GL24h
rk = 380 Kg/m3
=
yMa = 1.25 N/mm2
t1 = 180 mm
t2 = 180 mm
α1 = 0.00 °
α2 = 0.00 °
na1 = 3 mm
a1 = 150 mm
na2 = 3 mm
a2 = 150 mm

DATI VITE:

Viti per legno HBS 8x280
Diametro gambo vite
Diametro filetto vite
Diametro nocciolo vite
Diametro convenzionale EC5 vite
Lunghezza filettata vite
Lunghezza vite
Angolo di infissione
Senza preforatura
Senza sfalsamento
Diametro testa vite

=
= 5.8 mm
df = 8.0 mm
dn = 5.4 mm
def=df = 8.0 mm
lf = 60 mm
lh = 280 mm
β = 90.00 °
=
= 14.5 mm

RISULTATI:

Lunghezza penetrazione elemento 1
Lunghezza penetrazione elemento 2
Resistenza caratteristica trazione acciaio
Lunghezza efficace estrazione filetto (lato punta)
Resistenza estrazione filetto (lato punta)
Resistenza penetrazione testa
Resistenza caratteristica a rifollamento elemento 1
Resistenza caratteristica a rifollamento elemento 2
Momento di snervamento acciaio
Numero efficace viti parallele alle fibre elemento 1
Numero efficace viti parallele alle fibre elemento 2
Numero efficace viti parallele alle fibre

=
Lp1 = 180 mm
Lp2 = 100 mm
ftens,k = 20100 N
= 80 mm
Fax,rk = 6420 N
Fhead,rk = 1893 N
Fh,1,k = 16.70 N/mm2
Fh,1,k = 16.70 N/mm2
Myk = 20057 Nmm
nef = 3.00
nef = 3.00
nef = 3.00

DISTANZE MINIME elemento 1 (legno):

Parallela alle fibre
Perpendicolare alle fibre
Da estremità scarica (// fibre)
Da estremità sollecitata (// fibre)
Da bordo scarico (_ fibre)
Da bordo sollecitato (_ fibre)

=
a1 = 96 mm
a2 = 40 mm
a3c = 80 mm
a3t = 120 mm
_ fibre) a4c = 40 mm
_ fibre) a4t = 40 mm

DISTANZE MINIME elemento 2 (legno):

Parallela alle fibre
Perpendicolare alle fibre
Da estremità scarica (// fibre)
Da estremità sollecitata (// fibre)
Da bordo scarico (_ fibre)
Da bordo sollecitato (_ fibre)

=
a1 = 96 mm
a2 = 40 mm
a3c = 80 mm
a3t = 120 mm
_ fibre) a4c = 40 mm
_ fibre) a4t = 40 mm

VALORI DI RESISTENZA:

Numero sezioni di taglio
Contributo a trazione pesato con Johansen
Resistenza caratteristica a taglio tipo a
Resistenza caratteristica a taglio tipo b

=
nT = 1
Fax,Rk/4 = 0.47 KN
Fv,Rk = 24.05 KN
Fv,Rk = 13.36 KN

Resistenza caratteristica a taglio tipo c
 Resistenza caratteristica a taglio tipo d
 Resistenza caratteristica a taglio tipo e
 Resistenza caratteristica a taglio tipo f
 Resistenza caratteristica a taglio viti per piano di taglio
 Resistenza caratteristica a taglio viti
 Resistenza design a taglio viti per piano di taglio
 Resistenza design a taglio viti
 Resistenza design a taglio del singolo viti con numero efficace e contributo a trazione
 Resistenza design a taglio dell'intero collegamento
 Numero efficace a estrazione
 Resistenza caratteristica a estrazione del singolo connettore
 Resistenza caratteristica a estrazione dell'intero collegamento
 Resistenza design a estrazione dell'intero collegamento
 Scorrimento connettore per piano di taglio
 Verifica Taglio di progetto

Resistenza design a taglio dell'intero collegamento
Resistenza design a estrazione dell'intero collegamento
Scorrimento connettore per piano di taglio
Verifica Taglio di progetto

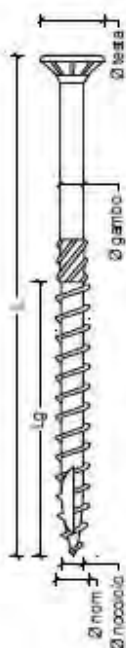
Fv,Rk = 8.75 KN
 Fv,Rk = 9.01 KN
 Fv,Rk = 5.36 KN
 Fv,Rk = 3.14 KN
 Fv,Rk = 3.14 KN
 Fc,Rk = 3.14 KN
 Fv,Rd = 1.88 KN
 Fc,Rd = 1.88 KN
 Fv,Rd = 1.88 KN
 Fv,rd,tot = 16.93 KN
 nef(e) = 7.22
 Faxk,ef = 1.89 KN
 Faxktot,ef = 13.67 KN
 Faxdtot,ef = 8.20 KN
 Kser = 2.58 KN/mm
 = 0.89 VERIFICATO

Fv,rd,tot = 16.93 KN
 Faxdtot,ef = 8.20 KN
 Kser = 2.58 KN/mm
 = 0.89 VERIFICATO

CAPACITA' PORTANTE A TAGLIO VITE HBS

UNIONI LEGNO-LEGNO CON UN PIANO DI TAGLIO
LEGNO DI CONIFERA

rothoengineer™



Normative: EN 1995-1-1:2009
NT 14-01-2008

Sceita della vite

HBS 06,0

Caratteristiche geometriche

\varnothing nominale	6.00	mm
\varnothing gambo	4.30	mm
\varnothing nocciolo	3.95	mm
\varnothing testa	12.00	mm

Tipo di legno

LEGNO LAMELLARE GL 24 h

$\rho_k = 380$ kg/m³

Spessore degli elementi

$t_1 = 200$ mm
 $t_{2,min} = 48$ mm (profondità minima di penetrazione)
 $L_{VITE,min} = 248$ mm (lunghezza minima della vite)

Lunghezza della vite

$L = 300$ mm lunghezza della vite

$L_s = 75$ mm lunghezza del filetto *

* Per esigenze costruttive si consiglia che il filetto sia interamente inserito nell'elemento 2.

Angolo della forza rispetto alla fibra

$\alpha_1 = 0^\circ$ angolo tra forza e fibra nell'elemento 1
 $\alpha_2 = 0^\circ$ angolo tra forza e fibra nell'elemento 2

Resistenza caratteristica a taglio per ogni mezzo di unione

$F_{v,Rk} = 2.44$ kN EN 1995-1-1:2009

Coefficienti e parametri di calcolo

$k_{mod} = 0.9$
 $\gamma_{M,connessione} = 1.5$ (NTC 2008: $\gamma_{M,connessione} = 1.5$)

Resistenza di progetto a taglio per ogni mezzo di unione

$F_{v,Rd} = 1.46$ kN

NOTA: le viti poste in opera non possono essere riutilizzate a causa dello sforzo torsionale impresso. Si raccomanda l'utilizzo di almeno due mezzi di unione per ogni giunzione



Tipologia:	Unione legno-legno	Normativa:	NTC 2008 (integrato con UNI EN 1995 : 2009)
Piani di taglio:	¶	Connettore:	VITI HBS

Parametri geometrici dei connettori

rothoengineer

HBS Ø6,0			tipologia connettore scelto
$\varnothing_{\text{nominale}}$	6.00	mm	diametro esterno del filetto
$\varnothing_{\text{noccio}}$	3.95	mm	diametro del nocciolo (diametro interno del filetto)
$\varnothing_{\text{gambo}}$	4.30	mm	diametro del gambo
$\varnothing_{\text{testa}}$	12.00	mm	diametro della testa
$\varnothing_{\text{calcolo}}$	4.35	mm	diametro di calcolo (\varnothing_{eff})
L	300.0	mm	lunghezza del connettore
L_{eff}	75.0	mm	lunghezza del filetto

Parametri meccanici dei connettori

(secondo EN 14592)

M_{yk}	12300	Nmm	momento caratteristico di snervamento
$R_{t,yk}$	11.10	kN	resistenza caratteristica a trazione del filo di acciaio
f_{yk}	11.60	kN	parametro caratteristico di resistenza all'estrazione del filetto
ρ_s	420	kg/m ²	densità caratteristica associata al parametro di estrazione del filetto
$f_{h,yk}$	12.00	kN	parametro caratteristico di resistenza a penetrazione della testa
ρ_s	440	kg/m ²	densità caratteristica associata al parametro di penetrazione della testa

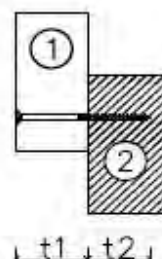
Considerando le sue caratteristiche geometriche, il connettore in fase di calcolo è assimilabile a: chiodo

Legno 1: elemento laterale

t_1	200.00	mm	spessore dell'elemento 1
Tipo di legno	LEGNO LAMELLARE GL 24 h		
ρ_k	380.00	kg/m ³	densità caratteristica del legno

Legno 2: elemento laterale

t_2	100	mm	profondità di penetrazione
Tipo di legno	LEGNO LAMELLARE GL 24 h		
ρ_k	380.00	kg/m ³	densità caratteristica del legno



Resistenza a rifollamento

$f_{h,0,1}$	29.81	Mpa	resistenza caratteristica a rifollamento nell'elemento 1 ($\alpha = 0^\circ$)
α_1	0.00	°	angolo tra sforzo e fibre nell'elemento laterale 1
k_{90}	-		
$f_{h,0,1,s}$	29.81	Mpa	resistenza caratteristica a rifollamento nell'elemento 1 ($\alpha \neq 0^\circ$) - Viti come Chiodi
$f_{h,0,2}$	29.81	Mpa	resistenza caratteristica a rifollamento nell'elemento 2 ($\alpha = 0^\circ$)
α_2	0.00	°	angolo tra sforzo e fibre nell'elemento laterale 2
k_{90}	-		
$f_{h,0,2,s}$	29.81	Mpa	resistenza caratteristica a rifollamento nell'elemento 2 ($\alpha \neq 0^\circ$) - Viti come Chiodi
β	1.00	$f_{h,2,s} / f_{h,1,s}$	rapporto fra le resistenze caratteristiche a rifollamento

DISTANZE MINIME PREVISTE DALLA NORMATIVA



VITI COME CHIODI CON PREFORO	Spaziature e distanze da bordi / estremità	Angolo
$a_{1,MIN}$	$(4+1 \cos\alpha)d$	$0^\circ \leq \alpha \leq 360^\circ$
$a_{2,MIN}$	$(3+1 \sin\alpha)d$	$0^\circ \leq \alpha \leq 360^\circ$
$a_{3,MIN}$	$(7+5 \cos\alpha)d$	$-90^\circ \leq \alpha \leq 90^\circ$
$a_{3,C,MIN}$	$7 d$	$90^\circ \leq \alpha \leq 150^\circ$ $150^\circ \leq \alpha \leq 210^\circ$ $210^\circ \leq \alpha \leq 270^\circ$
$a_{4,MIN}$	$(3+4 \sin\alpha)d$	$0^\circ \leq \alpha \leq 180^\circ$
$a_{4,C,MIN}$	$3 d$	$180^\circ \leq \alpha \leq 360^\circ$

Le spaziature e distanze di seguito riportate sono le minime da adottare fra quelle previste per i due elementi lignei, dipendenti dall'angolo fra forza e fibratura (rispettivamente α_1 ed α_2).

Spaziature e distanze minime tra bordi/estremità		[mm]
$a_{1,MIN}$	parallela alla fibratura	30.00
$a_{2,MIN}$	ortogonale alla fibratura	18.00
$a_{3,MIN}$	estremità sollecitata	72.00
$a_{3,C,MIN}$	estremità scarica	42.00
$a_{4,MIN}$	bordo sollecitato	18.00
$a_{4,C,MIN}$	bordo scarico	18.00

Connessione con più mezzi di unione

Circolare NTC 2008 - C 4.4.9

La valutazione della capacità portante di collegamenti con mezzi di unione multipli, tutti dello stesso tipo e dimensione, terrà conto della ridotta efficienza dovuta alla presenza di più mezzi di unione.

Per viti avente diametro nominale minore o uguale a 6 mm la valutazione del numero efficace segue le regole previste per i chiodi (si veda il p.to 8.3.1 - EN 1995-1-1:2009).

Per viti avente diametro nominale maggiore a 6 mm la valutazione del numero efficace segue le regole previste per i bulloni (si veda il p.to 8.5.1 - EN 1995-1-1:2009).

Resistenza assiale della vite (effetto cavo)

$$R_{ax,Rk} = 1.54 \quad \text{KN}$$

resistenza caratteristica a trazione della vite

$$R_{ax,Rk} = \min \{ R_{ax,Rk}, R_{ax,Rk}, R_{ax,Rk} \}$$

Resistenza a trazione dell'acciaio

$$R_{t,Rk} = 11.10 \quad \text{KN}$$

resistenza caratteristica a trazione della vite (filo di acciaio)

Resistenza ad estrazione del filetto nell'elemento 2

$$R_{ax,k} = 4.82 \quad \text{KN}$$

resistenza caratteristica ad estrazione del filetto

$$R_{ax,k} = n_{ef} \cdot d \cdot l_{ef} \cdot f_{ax,k} / (1.2 \cos(\alpha_{st})^2 + \sin(\alpha_{st})^2) \cdot (\rho_k / \rho_s)^{2.5}$$

diametro esterno del filetto

parametro caratteristico di resistenza ad estrazione del filetto

densità caratteristica associata al parametro di estrazione del filetto

numero efficace di viti (si considera $n_{ef} = 1$)

lunghezza di penetrazione della parte filettata nell'elemento 2

angolo tra la vite e la fibra (si ipotizza essere 90°)

densità caratteristica del legno

Resistenza a penetrazione della testa nell'elemento 1

$$R_{ax,k} = 1.54 \quad \text{KN}$$

resistenza caratteristica a penetrazione della testa

$$R_{ax,k} = n_{ef} \cdot f_{test,k} \cdot (\rho_k / \rho_s)^2 \cdot d_h^2$$

diametro della testa

parametro caratteristico di resistenza a penetrazione della testa

densità caratteristica associata al parametro di penetrazione della testa

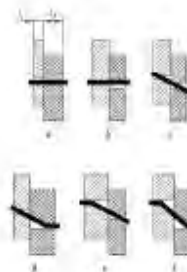
numero efficace di viti (si considera $n_{ef} = 1$)

densità caratteristica del legno

Resistenza a taglio della vite

La capacità portante di progetto per ciascun mezzo di unione ad un piano di taglio è il valore minimo tra i seguenti:

$$F_{v,Rk} = \min \left\{ \begin{aligned} & \frac{f_{h,1,k} \cdot t_1 \cdot d}{f_{h,2,k} \cdot t_2 \cdot d} \quad (a) \\ & \frac{f_{h,2,k} \cdot t_2 \cdot d}{1 + \beta} \cdot \left[\beta + 2\beta^2 \left(1 + \frac{f_{h,1,k}}{f_{h,2,k}} \cdot \left(\frac{t_1}{t_2} \right)^2 \right) + \beta^3 \left(\frac{t_1}{t_2} \right)^3 \right] - \beta \cdot \left(1 + \frac{f_{h,1,k}}{f_{h,2,k}} \right) \right] + \frac{F_{ax,Rk}}{4} \quad (b) \\ & 1.05 \cdot \frac{f_{h,1,k} \cdot t_1 \cdot d}{2 + \beta} \cdot \left[\sqrt{2\beta(1 + \beta) + \frac{4\beta(2 + \beta) \cdot M_{v,Rk}}{f_{h,1,k} \cdot d \cdot t_1^2}} - \beta \right] + \frac{F_{ax,Rk}}{4} \quad (c) \\ & 1.05 \cdot \frac{f_{h,1,k} \cdot t_2 \cdot d}{1 + 2\beta} \cdot \left[\sqrt{2\beta^2(1 + \beta) + \frac{4\beta(1 + 2\beta) \cdot M_{v,Rk}}{f_{h,1,k} \cdot d \cdot t_2^2}} - \beta \right] + \frac{F_{ax,Rk}}{4} \quad (d) \\ & 1.15 \cdot \sqrt{\frac{2\beta}{1 + \beta}} \cdot \sqrt{2 \cdot M_{v,Rk} \cdot f_{h,1,k} \cdot d} + \frac{F_{ax,Rk}}{4} \quad (e) \end{aligned} \right.$$



$$F_{v,Rk} = \min \left\{ \begin{aligned} & 25.90 & = 25.90 & \text{kN} & (a) \\ & 12.95 & = 12.95 & \text{kN} & (b) \\ & 8.80 + 0.38 & = 9.18 & \text{kN} & (c) \\ & 9.13 + 0.38 & = 9.51 & \text{kN} & (d) \\ & 4.66 + 0.38 & = 5.05 & \text{kN} & (e) \\ & 2.05 + 0.38 & = 2.44 & \text{kN} & (f) \end{aligned} \right.$$

$$F_{v,Rk, connettore} = 2.44 \quad \text{KN}$$

resistenza caratteristica a taglio del connettore

$$k_{mod} = 0.90$$

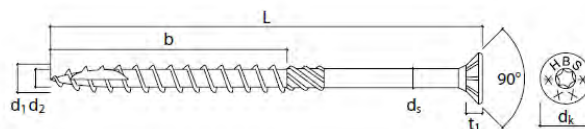
$$\gamma_{M,connessione} = 1.50$$

$$F_{v,Rd, connettore} = 1.46 \quad \text{KN}$$

resistenza di progetto a taglio del connettore

HBS - DATI TECNICI

Diametro nominale	d_1 [mm]	3,00	3,50	4,00	4,50	5,00	6,00	8,00	10,00	12,00
Diametro testa	d_k [mm]	6,00	7,00	8,00	9,00	10,00	12,00	14,50	18,25	20,75
Diametro nocciolo	d_2 [mm]	2,00	2,25	2,55	2,80	3,40	3,95	5,40	6,40	6,80
Diametro gambo	d_s [mm]	2,16	2,45	2,75	3,15	3,65	4,30	5,80	7,00	8,00
Spessore testa	t_1 [mm]	2,10	2,20	2,80	2,80	3,10	4,50	4,50	5,80	7,20
Torx	TX	10	15	20	20	25	30	40	40	50
Diametro preforo	d_v [mm]	2,0	2,0	2,5	3,0	3,0	4,0	5,0	6,0	7,0



HBS Ø 6-10 mm - DATI TECNICI

				ESTRAZIONE FILETTO ⁽¹⁾		PENETRAZIONE TESTA ⁽²⁾		TAGLIO ⁽³⁾		
d_1 [mm]	L [mm]	b [mm]	A [mm]	$N_{ax,nt}$ ammissibile [kN]	$R_{ax,k}$ caratteristico [kN]	$N_{kopf,nt}$ ammissibile [kN]	$R_{ax,k}^{(4)}$ caratteristico [kN]	$V_{cut}^{(5)}$ ammissibile [kN]	$R_{y,ax}^{(6)}$ caratteristico [kN]	$R_{y,ax}^{(7)}$ caratteristico [kN]
6,0	40	35	8	1,05	2,62	0,72	1,61	0,19	1,04	1,04
	50	45	15	1,35	3,37	0,72	1,61	0,36	1,64	1,64
	60	30	30	0,90	2,25	0,72	1,61	0,61	2,01	2,01
	70	40	30	1,20	3,00	0,72	1,61	0,61	2,08	2,08
	80	40	40	1,20	3,00	0,72	1,61	0,61	2,21	2,21
	90	50	40	1,50	3,75	0,72	1,61	0,61	2,21	2,21
	100	50	50	1,50	3,75	0,72	1,61	0,61	2,21	2,21
	110	60	50	1,80	4,50	0,72	1,61	0,61	2,21	2,21
	120	60	60	1,80	4,50	0,72	1,61	0,61	2,21	2,21
	130	60	70	1,80	4,50	0,72	1,61	0,61	2,21	2,21
	140	75	65	2,25	5,62	0,72	1,61	0,61	2,21	2,21
	150	75	75	2,25	5,62	0,72	1,61	0,61	2,21	2,21
	160	75	85	2,25	5,62	0,72	1,61	0,61	2,21	2,21
	180	75	105	2,25	5,62	0,72	1,61	0,61	2,21	2,21
	200	75	125	2,25	5,62	0,72	1,61	0,61	2,21	2,21
	220	75	145	2,25	5,62	0,72	1,61	0,61	2,21	2,21
	240	75	165	2,25	5,62	0,72	1,61	0,61	2,21	2,21
	260	75	185	2,25	5,62	0,72	1,61	0,61	2,21	2,21
	280	75	205	2,25	5,62	0,72	1,61	0,61	2,21	2,21
	300	75	225	2,25	5,62	0,72	1,61	0,61	2,21	2,21

Verifica collegamento con sottostante solaio mediante fissaggi meccanici

Impresa:		Pagina:	1
Progettista:		Progetto:	
Indirizzo:		Contratto Nr.:	
Telefono / Fax:		Data:	31/03/2015
E-mail:			

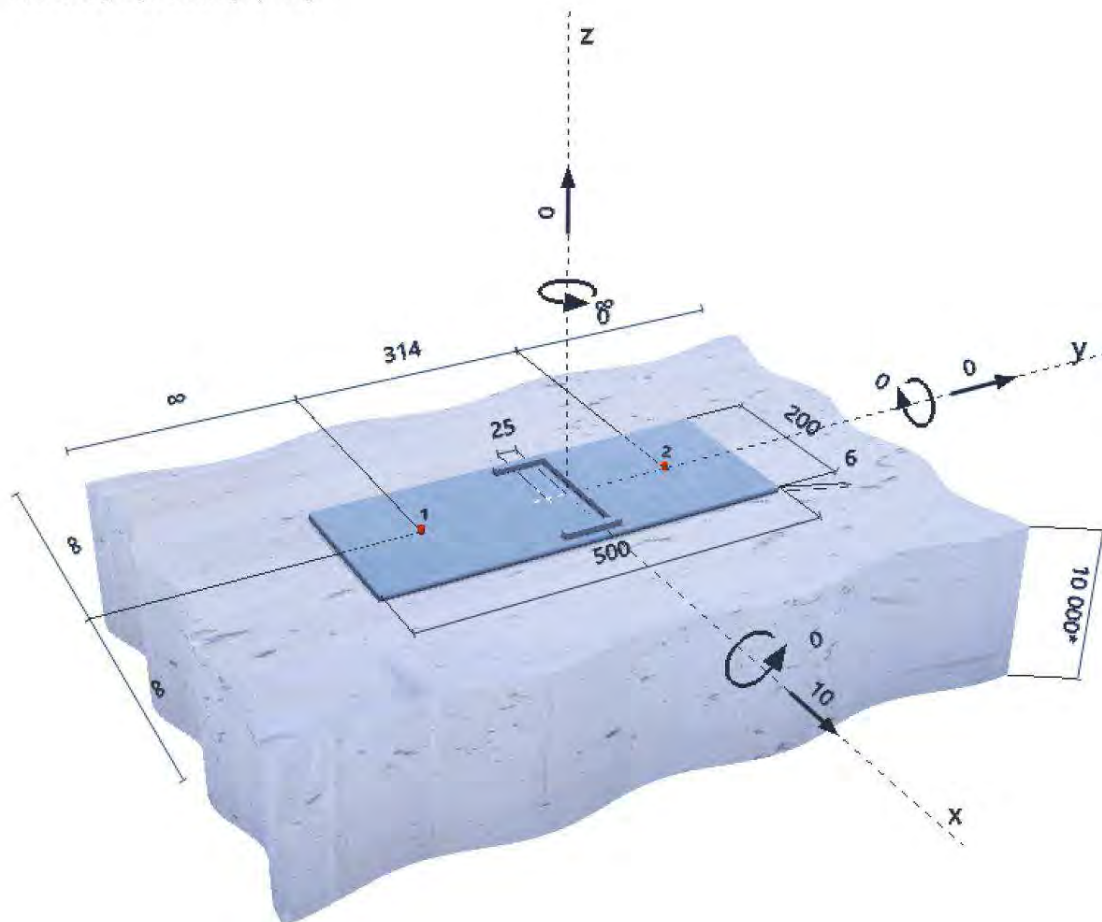
Commenti del progettista:

1 Dati da inserire

Tipo e dimensione dell'ancorante:	HST-R M8
Profondità di posa effettiva:	$h_{ef} = 47 \text{ mm}$, $h_{nom} = 55 \text{ mm}$
Materiale:	A4
Certificazione No.:	ETA 98/0001
Emesso / Valido:	08/05/2013 20/02/2018
Verifica:	metodo di calcolo ETAG (Nr. 001 Allegato C/2010)
Fissaggio distanziato:	$e_b = 0 \text{ mm}$ (Senza distanziamento); $t = 6 \text{ mm}$
Piastra d'ancoraggio:	$l_x \times l_y \times t = 200 \text{ mm} \times 500 \text{ mm} \times 6 \text{ mm}$; (Spessore della piastra raccomandato: non calcolato)
Profilo:	Profilo a U; $(L \times W \times T \times FT) = 180 \text{ mm} \times 70 \text{ mm} \times 8 \text{ mm} \times 11 \text{ mm}$
Materiale base:	Fessurato Calcestruzzo, C25/30, $f_{cc} = 30.00 \text{ N/mm}^2$; $h = 10000 \text{ mm}$
Armatura:	nessuna armatura o interasse tra le armature $\geq 150 \text{ mm}$ (qualunque \emptyset) o $\geq 100 \text{ mm}$ ($\emptyset \leq 10 \text{ mm}$) senza armatura di bordo longitudinale



Geometria [mm] & Carichi [kN, kNm]



Impresa:
Progettista:
Indirizzo:
Telefono / Fax:
E-mail:

Pagina: 2
Progetto:
Contratto Nr.:
Data: 31/03/2015

2 Condizione di carico/Carichi risultanti sull'ancorante

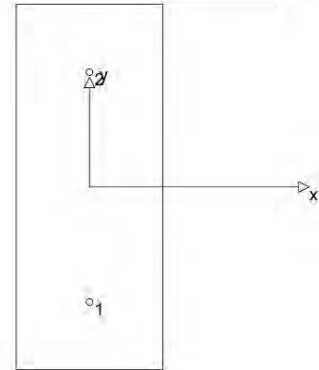
Condizione di carico: Carichi di progetto

Carichi sull'ancorante [kN]

Trazione: (+ Trazione, - Compressione)

Ancorante	Trazione	Taglio	Taglio in dir. x	Taglio in dir. y
1	0.000	4.204	4.204	0.000
2	0.000	5.796	5.796	0.000

Compressione max. nel calcestruzzo: - [%]
Max. sforzo di compressione nel calcestruzzo: - [N/mm²]
risultante delle forze di trazione nel (x/y)=(0/0): 0.000 [kN]
risultante delle forze di compressione (x/y)=(0/0): 0.000 [kN]



3 Carico di trazione (ETAG, Allegato C, Sezione 5.2.2)

	carico [kN]	Resistenza [kN]	Utilizzo β_N [%]	Stato
Rottura dell'acciaio*	N/A	N/A	N/A	N/A
Rottura per sfilamento*	N/A	N/A	N/A	N/A
Rottura conica del calcestruzzo**	N/A	N/A	N/A	N/A
Fessurazione**	N/A	N/A	N/A	N/A

*ancorante più sollecitato **gruppo di ancoranti (ancoranti sollecitati)

Impresa:
Progettista:
Indirizzo:
Telefono / Fax:
E-mail:

Pagina: 3
Progetto:
Contratto Nr.:
Data: 31/03/2015

4 Carico di taglio (ETAG, Allegato C, Sezione 5.2.3)

	carico [kN]	Resistenza [kN]	Utilizzo β_v [%]	Stato
Rottura dell'acciaio (senza braccio di leva)*	5.796	10.400	56	OK
Rottura dell'acciaio (con braccio di leva)*	N/A	N/A	N/A	N/A
Rottura per pryout**	10.000	29.231	35	OK
Rottura del bordo del calcestruzzo in direzione **	N/A	N/A	N/A	N/A

*ancorante più sollecitato **gruppo di ancoranti (ancoranti specifici)

4.1 Rottura dell'acciaio (senza braccio di leva)

$V_{Rk,s}$ [kN]	$\gamma_{M,s}$	$V_{Rd,s}$ [kN]	V_{Sd} [kN]
13.000	1.250	10.400	5.796

4.2 Rottura per pryout

$A_{c,N}$ [mm ²]	$A_{c,N}^0$ [mm ²]	$c_{cr,N}$ [mm]	$s_{cr,N}$ [mm]	k-factor		
39762	19881	71	141	2.000		
$e_{c1,v}$ [mm]	$\psi_{ec1,N}$	$e_{c2,v}$ [mm]	$\psi_{ec2,N}$	$\psi_{s,N}$	$\psi_{re,N}$	$N_{Rk,c}^0$ [kN]
0	1.000	25	0.863	1.000	1.000	12.707
$\gamma_{M,c,p}$	$V_{Rd,c1}$ [kN]	V_{Sd} [kN]				
1.500	29.231	10.000				

5 Spostamento (ancorante più sollecitato)

Carichi di breve periodo:

N_{Sk}	=	0.000 [kN]	δ_N	=	0.000 [mm]
V_{Sk}	=	4.293 [kN]	δ_V	=	0.928 [mm]
			δ_{NV}	=	0.928 [mm]

Carichi di lungo periodo:

N_{Sk}	=	0.000 [kN]	δ_N	=	0.000 [mm]
V_{Sk}	=	4.293 [kN]	δ_V	=	1.392 [mm]
			δ_{NV}	=	1.392 [mm]

Commenti: Gli spostamenti a trazione sono validi con metà della coppia di serraggio necessaria all'installazione per non fessurare calcestruzzo! Gli spostamenti a taglio sono validi senza attrito tra il calcestruzzo e la piastra d'ancoraggio! Lo spazio dovuto alla tolleranza tra il foro perforato e il foro passante non sono inclusi in questo calcolo!

Gli spostamenti ammissibili dipendono dalla struttura fissata e devono essere definiti dal progettista!

6 Attenzione

- Si assume una piastra di ancoraggio sufficientemente rigida in modo che non risulti deformabile sotto l'azione di carichi.
- La verifica del trasferimento dei carichi nel materiale base è necessaria in accordo all'ETAG (2010) sezione 7!
- Il calcolo è valido solo se le dimensioni dei fori sulla piastra non superano i valori indicati nella tabella 4.1 dell'ETAG 001, Annex C! Per diametri dei fori superiori vedere il capitolo 1.1 dell'ETAG 001, Annex C!
- La lista accessori inclusa in questo report di calcolo è da ritenersi solo come informativa dell'utente. In ogni caso, le istruzioni d'uso fornite con il prodotto dovranno essere rispettate per garantire una corretta installazione.

L'ancoraggio risulta verificato!

VERIFICA COLLEGAMENTI SERRAMENTI

Il serramento oggetto di verifica è quello posto sull'ingresso principale del fabbricato (corpo centrale) risulta composto da 2 specchiature apribili. Il telaio verrà installato mediante tasselli meccanici lungo le pareti laterali (muratura e pilastro), a pavimento e soffitto.

Per la determinazione delle azioni, oltre ai pesi propri dei materiali costituenti il serramento è stata ipotizzata una azione orizzontale dovuta alla presenza di persone che affollano la via di esodo (equiparandolo ad un parapetto, carico orizzontale pari a 200 daN/m), si riportano le verifiche sui collegamenti.

Impresa:		Pagina:	1
Progettista:		Progetto:	
Indirizzo:		Contratto Nr.:	
Telefono Fax:	- -	Data:	01/04/2015
E-mail:			

Commenti del progettista:

1. Dati da inserire

Tipo e dimensione dell'ancorante HST, M10

Profondità di posa effettiva: $h_{ef} = 60 \text{ mm}$, $h_{nom} = 69 \text{ mm}$

Materiale:

Certificazione No.: ETA 98/0001

Emesso | Valido: 08/05/2013 | 20/02/2018

Verifica: Valutazione ingegneristica SOFA – basata sui test ETAG

Fissaggio distanziato: senza Serraggio (ancorante); livello di incastro (piastra di base): 2.0; $e_s = 30 \text{ mm}$; $t = 12 \text{ mm}$

Piastra d'ancoraggio: $l_x \times l_y \times t = 3000 \times 100 \times 12 \text{ mm}$ (Spessore della piastra raccomandato: non calcolato)

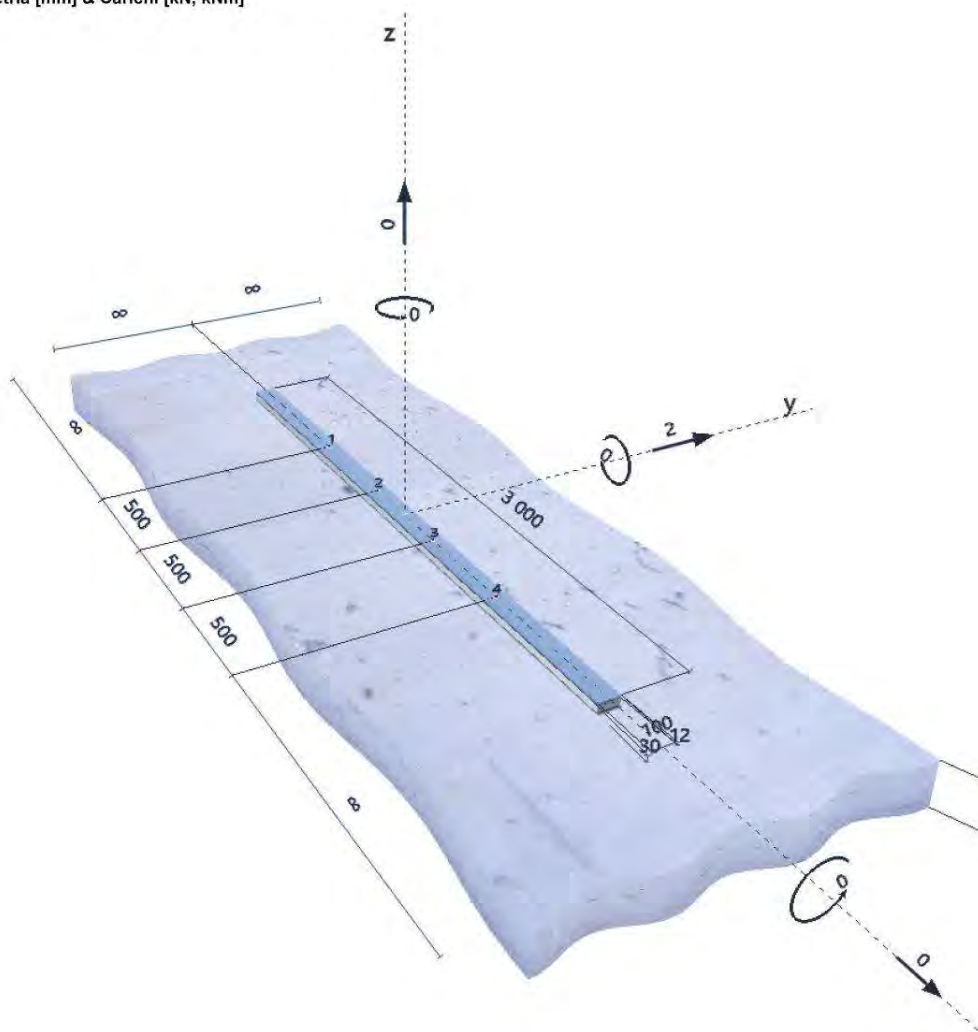
Profilo: senza profilo

Materiale base: Fessurato Calcestruzzo, C25/30, $f_{cc} = 30.00 \text{ N/mm}^2$; $h = 10000 \text{ mm}$

Armatura: nessuna armatura o interasse tra le armature $\geq 150 \text{ mm}$ (qualunque \emptyset) o $\geq 100 \text{ mm}$ ($\emptyset \leq 10 \text{ mm}$)
senza armatura di bordo longitudinale



Geometria [mm] & Carichi [kN, kNm]



Impresa:
 Progettista:
 Indirizzo:
 Telefono I Fax: - | -
 E-mail:

Pagina: 2
 Progetto:
 Contratto Nr.:
 Data: 01/04/2015

2. Condizione di carico/Carichi risultanti sull'ancorante

Condizione di carico (Carichi di progetto):

Carichi sull'ancorante [kN]

Trazione: (+ Trazione, - Compressione)

Ancorante	Trazione	Taglio	Taglio in dir. x	Taglio in dir. y
1	0.000	0.500	0.000	0.500
2	0.000	0.500	0.000	0.500
3	0.000	0.500	0.000	0.500
4	0.000	0.500	0.000	0.500



Compressione max. nel calcestruzzo [‰]: 0.00
 Max. sforzo di compressione nel calcestruzzo [N/mm²]: 0.00
 risultante delle forze di trazione nel (x/y)=(0/0) [kN]: 0.000
 risultante delle forze di compressione (x/y)=(0/0) [kN]: 0.000

3. Carico di trazione

Verifica	carico [kN]	Resistenza [kN]	Utilizzo β_n [%]	Stato
Rottura dell'acciaio*	N/A	N/A	N/A	N/A
Rottura per sfilamento*	N/A	N/A	N/A	N/A
Rottura conica del calcestruzzo**	N/A	N/A	N/A	N/A
Fessurazione**	N/A	N/A	N/A	N/A

*ancorante più sollecitato **gruppo di ancoranti (ancoranti sollecitati)

4. Carico di taglio

Verifica	carico [kN]	Resistenza [kN]	Utilizzo β_v [%]	Stato
Rottura dell'acciaio (senza braccio di leva)*	0.500	18.800	3	OK
Rottura dell'acciaio (con braccio di leva)*	0.500	2.341	21	OK
Rottura per pryout**	2.000	97.750	2	OK
Rottura del bordo del calcestruzzo in direzione**	N/A	N/A	N/A	N/A

*ancorante più sollecitato **gruppo di ancoranti (ancoranti specifici)

Rottura dell'acciaio (senza braccio di leva)

$V_{Rk,s}$ [kN]	$\gamma_{M,s}$	$V_{Rd,s}$ [kN]	V_{Ed} [kN]
23.500	1.250	18.800	0.500

Impresa:		Pagina:	3
Progettista:		Progetto:	
Indirizzo:		Contratto Nr.:	
Telefono / Fax:	- -	Data:	01/04/2015
E-mail:			

Rottura dell'acciaio (con braccio di leva)

l [mm]	α_M			
41	2.00			
$N_{Sd} / N_{Rd,s}$	$1 - N_{Sd} / N_{Rd,s}$	$M_{Rd,s}^0$ [kNm]	$M_{Rd,s} = M_{Rd,s}^0 (1 - N_{Sd} / N_{Rd,s})$ [kNm]	
0.000	1.000	0.060	0.060	
$V_{Rd,s}^M = \alpha_M * M_{Rd,s} / l$ [kN]		$\gamma_{M,s,R}$	$V_{Rd,s}^N$ [kN]	V_{Sd} [kN]
2.927		1.250	2.341	0.500

Rottura per pryout

$A_{c,N}$ [mm ²]	$A_{c,N}^0$ [mm ²]	$c_{cr,N}$ [mm]	$s_{cr,N}$ [mm]	k-factor	
129600	32400	90	180	2.000	
$e_{cf,V}$ [mm]	$\psi_{ecf,N}$	$e_{c2,V}$ [mm]	$\psi_{ec2,N}$	$\psi_{s,N}$	$\psi_{re,N}$
0	1.000	0	1.000	1.000	1.000
$N_{Rd,c}^0$ [kN]	$\gamma_{M,c,p}$	$V_{Rd,c1}$ [kN]	V_{Sd} [kN]		
18.328	1.500	97.750	2.000		

5. Spostamenti

Lo spostamento dell'ancorante maggiormente caricato è da calcolare in conformità con la specifica certificazione. Lo spostamento dovuto alle tolleranze dei fori può essere trascurato, perché questo metodo presuppone che non ci sia foro passante tra l'ancorante e la piastra. I carichi caratteristici degli ancoranti maggiormente sollecitati sono

$$N_{Sk} = 0.000 \text{ [kN]}$$

$$V_{Sk} = 0.370 \text{ [kN]}$$

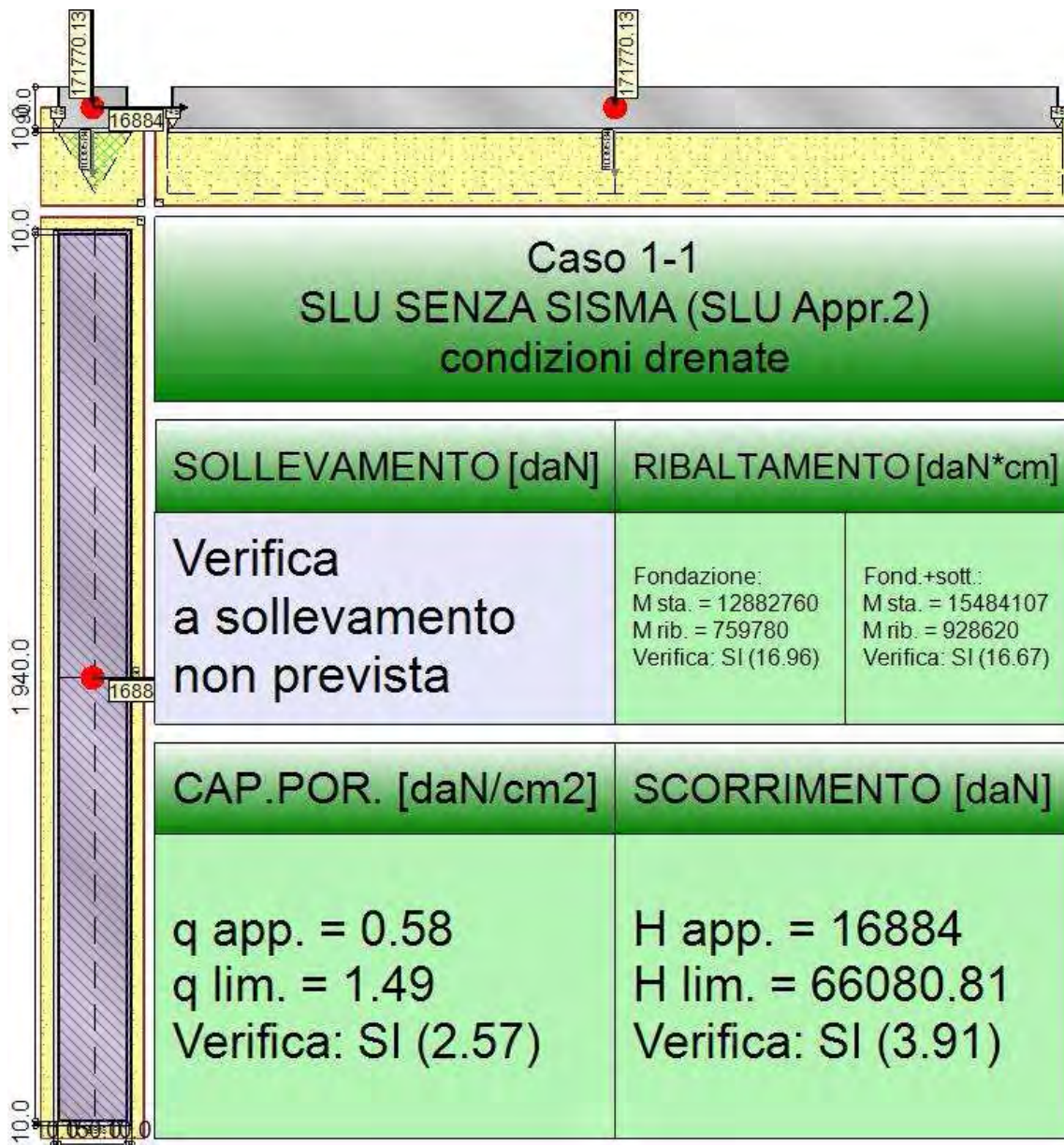
Gli spostamenti ammissibili dipendono dalla struttura fissata e devono essere definiti dal progettista!

6. Attenzione

- Il metodo SOFA presuppone che non ci sia foro passante tra l'ancorante e la piastra. Questa situazione si può ottenere riempiendo lo spazio con malta con una sufficiente resistenza a compressione (e.g. Set Dinamico Hilti) o da soluzioni simili.
- L'utente è responsabile della conformità alle norme correnti (e.g. EC3).
- Una verifica agli Stati Limite d'Esercizio non è eseguita da SOFA e deve essere effettuata dall'utente!
- La verifica del trasferimento dei carichi nel materiale base è necessaria in accordo all'ETAG (2010) sezione 7!
- Si assume una piastra di ancoraggio sufficientemente rigida in modo che non risulti deformabile sotto l'azione di carichi.
- Il calcolo è valido solo se le dimensioni dei fori sulla piastra non superano i valori indicati nella tabella 4.1 dell'ETAG 001, Annex C! Per diametri dei fori superiori vedere il capitolo 1.1 dell'ETAG 001, Annex C!
- La lista accessori inclusa in questo report di calcolo è da ritenersi solo come informativa dell'utente. In ogni caso, le istruzioni d'uso fornite con il prodotto dovranno essere rispettate per garantire una corretta installazione.

L'ancoraggio risulta verificato!

VALUTAZIONE DELLA STABILITÀ, CAPACITÀ PORTANTE E RESISTENZA A SCORRIMENTO DI UNA FONDAZIONE SUPERFICIALE (TRAVE_T001_ID001).



Rappresentazione della fondazione.

Descrizione dei Casi di calcolo e riassunto dei risultati.

Segue il riassunto dei Casi di calcolo analizzati. I dettagli di ciascun Caso (sollecitazioni, verifiche, ecc.) sono specificati nei paragrafi successivi.

Indici e nomi dei casi di carico			Elenco delle verifiche eseguite per ciascun caso				Sisma
Caso	Nome	Sestetti	Ver. dren.	Ver. non dren.	Ver. equ.	Ver. upl.	Coef. sism.
1	SLU SENZA SISMA (SLU Appr.2)	1-1	Si	No	Si	No	Non sismico
1-1 Caso 1-1 Nodo 82							
2	SLU con SISMAX PRINC (SLU Appr.2)	2-1	Si	No	Si	No	$k_{h,x} = 0.03$, $k_{h,y} = 0.01$
2-1 Caso 4-14 Nodo 82							
3	SLU con SISMAX	3-1	Si	No	Si	No	$k_{h,x} = 0.01$, $k_{h,y} =$

	PRINC (SLU Appr.2)						0.03
3-1 Caso 5-8 Nodo 82							
4	SLU FON con SISMAY P (SLU Appr.2)	4-1	Si	No	Si	No	$k_{h,x}= 0.03, k_{h,y}= 0.01$
4-1 Caso 8-14 Nodo 82							
5	SLU FON con SISMAY P (SLU Appr.2)	5-1	Si	No	Si	No	$k_{h,x}= 0.01, k_{h,y}= 0.03$
5-1 Caso 9-8 Nodo 82							

La seguente tabella elenca i coefficienti di sicurezza parziali, applicati alle caratteristiche meccaniche del terreno, alla capacità portante, alla resistenza a scorrimento e del terreno, per ciascun Caso di calcolo.

Caso	$\gamma_{G1, fav}$	$\gamma_{G1, sfa}$	$\gamma_{G2, fav}$	$\gamma_{G2, sfa}$	$\gamma_{Q1, fav}$	$\gamma_{Q1, sfa}$	γ_{γ}	γ_{ϕ}	$\gamma_{c'}$	$\gamma_{R,v}$	$\gamma_{R,h}$	$\gamma_{R,e}$	$\gamma_{R, equ}$	$\gamma_{R, upl}$
1	1.00	1.30	0.00	1.50	0.00	1.50	1.00	1.00	1.00	2.30	1.10	1.00	-	-
2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.30	1.10	1.00	-	-
3	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.30	1.10	1.00	-	-
4	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.30	1.10	1.00	-	-
5	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.30	1.10	1.00	-	-

Segue la tabella riassuntiva di tutte le verifiche a **ribaltamento**.

Caso	Fondazione			Fondazione e Sottofondo		
	R_d [daN*cm]	E_d [daN*cm]	Verifica	R_d [daN*cm]	E_d [daN*cm]	Verifica
1-1	12882760	759780	SI (12882760/759780 = 16.96 \geq 1.0)	15484110	928620	SI (15484110/928620 = 16.67 \geq 1.0)
2-1	7852710	248940	SI (7852710/248940 = 31.54 \geq 1.0)	9579470	304260	SI (9579470/304260 = 31.48 \geq 1.0)
3-1	7771560	427230	SI (7771560/427230 = 18.19 \geq 1.0)	9487500	522170	SI (9487500/522170 = 18.17 \geq 1.0)
4-1	7867020	223560	SI (7867020/223560 = 35.19 \geq 1.0)	9595680	273240	SI (9595680/273240 = 35.12 \geq 1.0)
5-1	7777750	419720	SI (7777750/419720 = 18.53 \geq 1.0)	9494510	512980	SI (9494510/512980 = 18.51 \geq 1.0)

Segue la tabella riassuntiva di tutte le verifiche di **capacità portante**, i dettagli sono riportati nei paragrafi successivi.

Caso	Cond. drenate			Cond. non drenate		
	E_d [daN]	R_d [daN]	Verifica	E_d [daN]	R_d [daN]	Verifica
1-1	182166	467712.1	SI (467712.1/182166 = 2.57 \geq 1.0)	Verifica non richiesta.		
2-1	112699.7	496541.8	SI (496541.8/112699.7 = 4.41 \geq 1.0)	Verifica non richiesta.		
3-1	111617.6	436046.1	SI (436046.1/111617.6 = 3.91 \geq 1.0)	Verifica non richiesta.		
4-1	112890.4	505608.4	SI (505608.4/112890.4 = 4.48 \geq 1.0)	Verifica non richiesta.		
5-1	111700.2	438535	SI (438535/111700.2 = 3.93 \geq 1.0)	Verifica non richiesta.		

Segue la tabella riassuntiva di tutte le verifiche di **resistenza a scorrimento**, i dettagli sono riportati nei paragrafi successivi.

Caso	Cond. drenate			Cond. non drenate		
	E_d [daN]	R_d [daN]	Verifica	E_d [daN]	R_d [daN]	Verifica
1-1	16884	66080.8	SI (66080.8/16884 = 3.91 \geq 1.0)	Verifica non richiesta.		
2-1	5532	41839.3	SI (41839.3/5532 = 7.56 \geq 1.0)	Verifica non richiesta.		
3-1	9494	41461.7	SI (41461.7/9494 = 4.37 \geq 1.0)	Verifica non richiesta.		
4-1	4968	41905.9	SI (41905.9/4968 = 8.44 \geq 1.0)	Verifica non richiesta.		
5-1	9327	41490.6	SI (41490.6/9327 = 4.45 \geq 1.0)	Verifica non richiesta.		

Descrizione del metodo di calcolo.

Il calcolo della capacità portante viene eseguito secondo la formula trinomia, considerando separatamente i contributi dovuti alla coesione, al sovraccarico laterale ed al peso del terreno. Per le verifiche in condizioni drenate, si utilizzano i coefficienti di capacità portante N_q (Prandtl, 1921), N_c (Reissner, 1924), N_γ (Vesic, 1973), i coefficienti correttivi dovuti alla forma della fondazione (s , Meyerhof, 1951 e 1963), all'approfondimento (d , Brinch Hansen, 1970), all'inclinazione del carico (i , Vesic, 1973), all'inclinazione del piano di posa (b , Vesic, 1973), all'inclinazione del piano campagna (g , Vesic, 1973), e all'azione sismica (h - Maugeri e Novità, 2004).

Nel caso di terreno eterogeneo (litologie differenti, presenza di falda), i parametri meccanici utilizzati nel calcolo sono ottenuti come media ponderata dei valori rinvenuti all'interno del cuneo di rottura.

La resistenza a scorrimento, viene ottenuta sommando i contributi del carico normale al piano di posa moltiplicato per il coefficiente d'attrito, e dell'area del piano di posa (eventualmente ridotta per carico verticale eccentrico) per l'adesione fondazione-terreno. In condizioni drenate, l'attrito fondazione terreno è assunto pari all'angolo di resistenza al taglio del terreno moltiplicato per il coefficiente 0.75, l'adesione fondazione terreno è trascurata (assunta pari a 0). Si considera il contributo della pressione del terreno a lato della fondazione. La resistenza laterale del terreno è assunta pari alla resistenza passiva disponibile moltiplicata per 0.50.

Descrizione della fondazione.

La fondazione ha piano di posa rettangolare, con lato X di 170 [cm], lato Y di 1960 [cm], e centro alla quota $z = -55$ [cm]. Il piano di posa è orizzontale.

Descrizione del terreno.

La stratigrafia è omogenea, presenta un solo strato							
n.	nome	z_i [cm]	z_f [cm]	γ_a [daN/cm ³]	γ_t [daN/cm ³]	c' [daN/cm ²]	ϕ' [°]
1	Sabbia	0	-1000	0.00185	0.00215	0	28
La stratigrafia non contiene una falda							

Verifiche in condizioni drenate.

Sollecitazioni al piano di posa.

Si riportano di seguito le componenti della sollecitazione applicata e la distanza del punto di applicazione dal centro del piano di posa della fondazione.

Rispetto al sistema di rif. globale:									
Caso	F_x [daN]	F_y [daN]	F_z [daN]	M_x [daN*cm]	M_y [daN*cm]	dx [cm]	dy [cm]	dz [cm]	
1-1	16884	0	-182165.97	0	0	0	0	55	
2-1	5532	0	-112699.66	0	0	0	0	55	
3-1	9494	0	-111617.62	0	0	0	0	55	
4-1	4968	0	-112890.4	0	0	0	0	55	
5-1	9327	0	-111700.16	0	0	0	0	55	
Rispetto al sistema di rif. locale (centro piano di posa):									
Caso	H_x [daN]	H_y [daN]	V_z [daN]	M_x [daN*cm]	M_y [daN*cm]	dx [cm]	dy [cm]	dz [cm]	
1-1	16884	0	-182165.97	0	928620	-	-	-	
2-1	5532	0	-112699.66	0	304260	-	-	-	
3-1	9494	0	-111617.62	0	522170	-	-	-	
4-1	4968	0	-112890.4	0	273240	-	-	-	
5-1	9327	0	-111700.16	0	512985	-	-	-	

Le sollecitazioni applicate provocano un'eccentricità lungo X ($\max = 5.1$ [cm]), perciò le verifiche vengono eseguite sulla fondazione ridotta rettangolare.

Caso	ecc. X [cm]	ecc. Y [cm]	Asse B	Asse L
1-1	5.1	0	asse X	asse Y
2-1	2.7	0	asse X	asse Y
3-1	4.68	0	asse X	asse Y
4-1	2.42	0	asse X	asse Y
5-1	4.59	0	asse X	asse Y

Capacità portante.

Le seguenti tabelle elencano il valore dell'angolo di resistenza al taglio, del peso di volume alleggerito, della coesione efficace, del sovraccarico alleggerito, e dei fattori e coefficienti introdotti nel calcolo della capacità portante.

Caso	γ_ϕ	γ_γ	φ [°]	γ' [daN/cm ³]	N_γ	s_γ	d_γ	$i_{b\gamma}$	$i_{l\gamma}$	b_γ	g_γ	h_γ	$q'_{lim,\gamma}$ [daN/cm ²]
1-1	1.00	1.00	28	0.00185	16.72	1.02	1.00	0.75	1.00	1.00	1.00	-	1.9
2-1	1.00	1.00	28	0.00185	16.72	1.02	1.00	0.86	1.00	1.00	1.00	0.88	1.98
3-1	1.00	1.00	28	0.00185	16.72	1.02	1.00	0.77	1.00	1.00	1.00	0.88	1.72
4-1	1.00	1.00	28	0.00185	16.72	1.02	1.00	0.88	1.00	1.00	1.00	0.88	2.02
5-1	1.00	1.00	28	0.00185	16.72	1.02	1.00	0.77	1.00	1.00	1.00	0.88	1.74
Caso	γ_c	c' [daN/cm ²]	N_c	s_c	d_c	i_{bc}	i_{lc}	b_c	g_c	h_c	$q'_{lim,c}$ [daN/cm ²]		
1-1	1.00	0	25.80	1.05	1.11	0.82	1.00	1.00	1.00	-	0		
2-1	1.00	0	25.80	1.05	1.11	0.90	1.00	1.00	1.00	0.95	0		
3-1	1.00	0	25.80	1.05	1.11	0.83	1.00	1.00	1.00	0.95	0		
4-1	1.00	0	25.80	1.05	1.11	0.91	1.00	1.00	1.00	0.95	0		
5-1	1.00	0	25.80	1.05	1.11	0.83	1.00	1.00	1.00	0.95	0		
Caso	q' [daN/cm ²]	N_q	s_q	d_q	i_{bq}	i_{lq}	b_q	g_q	h_q	$q'_{lim,q}$ [daN/cm ²]			
1-1	0.1	14.72	1.02	1.10	0.83	1.00	1.00	1.00	-	1.4			
2-1	0.1	14.72	1.02	1.10	0.91	1.00	1.00	1.00	0.93	1.43			
3-1	0.1	14.72	1.02	1.10	0.84	1.00	1.00	1.00	0.93	1.33			
4-1	0.1	14.72	1.02	1.10	0.92	1.00	1.00	1.00	0.93	1.44			
5-1	0.1	14.72	1.02	1.10	0.85	1.00	1.00	1.00	0.93	1.33			

Segue il confronto fra la pressione limite ed applicata.

Caso	$\gamma_{R,v}$	q'_{lim} [daN/cm ²]	A [cm ²]	R_d [daN]	E_d [daN]	Verifica
1-1	2.30	1.49	313217.18	467712.1	182166	SI (467712.1/182166 = 2.57 >= 1.0)
2-1	2.30	1.54	322617.01	496541.8	112699.7	SI (496541.8/112699.7 = 4.41 >= 1.0)
3-1	2.30	1.38	314861.44	436046.1	111617.6	SI (436046.1/111617.6 = 3.91 >= 1.0)
4-1	2.30	1.56	323712.03	505608.4	112890.4	SI (505608.4/112890.4 = 4.48 >= 1.0)
5-1	2.30	1.39	315197.33	438535	111700.2	SI (438535/111700.2 = 3.93 >= 1.0)

Scorrimento.

Le seguenti tabelle elencano il valore dell'angolo di resistenza al taglio, della coesione efficace, dell'attrito e dell'aderenza fondazione-terreno, e della resistenza disponibile sul piano di posa e sulle pareti laterali.

Caso	γ_ϕ	γ_c	ϕ [°]	c' [daN/cm ²]	δ [°]	a [daN/cm ²]	$\gamma_{R,h}$	$\gamma_{R,e}$	R_h [daN]	R_e [daN]
1-1	1.00	1.00	28	0	21	0	1.10	1.00	63569.97	2510.85
2-1	1.00	1.00	28	0	21	0	1.10	1.00	39328.5	2510.85
3-1	1.00	1.00	28	0	21	0	1.10	1.00	38950.9	2510.85
4-1	1.00	1.00	28	0	21	0	1.10	1.00	39395.06	2510.85
5-1	1.00	1.00	28	0	21	0	1.10	1.00	38979.7	2510.85

Segue il confronto fra la resistenza a scorrimento e l'azione applicata.

Caso	R_d [daN]	E_d [daN]	Verifica
1-1	66080.8	16884	SI (66080.8/16884 = 3.91 >= 1.0)
2-1	41839.3	5532	SI (41839.3/5532 = 7.56 >= 1.0)
3-1	41461.7	9494	SI (41461.7/9494 = 4.37 >= 1.0)
4-1	41905.9	4968	SI (41905.9/4968 = 8.44 >= 1.0)
5-1	41490.6	9327	SI (41490.6/9327 = 4.45 >= 1.0)

PIANO DI MANUTENZIONE

"Piano di manutenzione riguardante le strutture" previsto dalle nuove **Norme Tecniche per le Costruzioni** (D.M. 14 gennaio 2008 e dalla relativa Circolare esplicativa 2 febbraio 2009, 617)

Il piano di manutenzione delle strutture è il documento complementare al progetto strutturale che ne prevede, pianifica e programma tenendo conto degli elaborati progettuali esecutivi dell'intera opera l'attività di manutenzione, al fine di mantenerne nel tempo la funzionalità, le caratteristiche di qualità l'efficienza ed il valore economico.

I manuali d'uso, e di manutenzione rappresentano gli strumenti con cui l'utente si rapporta con l'immobile: direttamente utilizzandolo evitando comportamenti anomali che possano danneggiarne o comprometterne la durabilità e le caratteristiche; attraverso i manutentori che utilizzeranno così metodologie più confacenti ad una gestione che coniughi economicità e durabilità del bene.

A tal fine, i manuali definiscono le procedure di raccolta e di registrazione dell'informazione nonché le azioni necessarie per impostare il piano di manutenzione e per organizzare in modo efficiente, sia sul piano tecnico che su quello economico, il servizio di manutenzione.

Il manuale d'uso mette a punto una metodica di ispezione dei manufatti che individua sulla base dei requisiti fissati dal progettista in fase di redazione del progetto, la serie di guasti che possono influenzare la durabilità del bene e per i quali, un intervento manutentivo potrebbe rappresentare allungamento della vita utile e mantenimento del valore patrimoniale. Il manuale di manutenzione invece rappresenta lo strumento con cui l'esperto si rapporta con il bene in fase di gestione di un contratto di manutenzione programmata.

Il programma infine è lo strumento con cui, chi ha il compito di gestire il bene, riesce a programmare le attività in riferimento alla previsione del complesso di interventi inerenti la manutenzione di cui si presumono la frequenza, gli indici di costo orientativi e le strategie di attuazione nel medio e nel lungo periodo.

Il piano di manutenzione è organizzato nei tre strumenti individuati dall'art. 40 del regolamento LLPP ovvero:

- a) il manuale d'uso;
- b) il manuale di manutenzione;
- c) il programma di manutenzione;
 - c1) il sottoprogramma delle prestazioni, che prende in considerazione, per classe di requisito, le prestazioni fornite dal bene e dalle sue parti nel corso del suo ciclo di vita;
 - c2) il sottoprogramma dei controlli, che definisce il programma delle verifiche e dei controlli al fine di rilevare il livello prestazionale (qualitativo e quantitativo) nei successivi momenti della vita del bene, individuando la dinamica della caduta delle prestazioni aventi come estremi il valore di collaudo e quello minimo di norma;
 - c3) il sottoprogramma degli interventi di manutenzione, che riporta in ordine temporale i differenti interventi di manutenzione, al fine di fornire le informazioni per una corretta conservazione del bene.

Tali strumenti devono consentire di raggiungere i seguenti obiettivi, raggruppati in base alla loro natura:

1) Obiettivi tecnico - funzionali: istituire un sistema di raccolta delle "informazioni di base" e di aggiornamento con le "informazioni di ritorno" a seguito degli interventi, che consenta, attraverso l'implementazione e il costante aggiornamento del "sistema informativo", di conoscere e mantenere correttamente l'immobile e le sue parti; consentire l'individuazione delle strategie di manutenzione più adeguate in relazione alle caratteristiche del bene immobile ed alla più generale politica di gestione del patrimonio immobiliare; istruire gli operatori tecnici sugli interventi di ispezione e manutenzione da eseguire, favorendo la corretta ed efficiente esecuzione degli interventi; istruire gli utenti sul corretto uso dell'immobile e delle sue parti, su eventuali interventi di piccola manutenzione che possono eseguire direttamente; sulla corretta interpretazione degli indicatori di uno stato di guasto o di malfunzionamento e sulle procedure per la sua segnalazione alle competenti strutture di manutenzione; definire le istruzioni e le procedure per controllare la qualità del servizio di manutenzione.

2) Obiettivi economici: ottimizzare l'utilizzo del bene immobile e prolungarne il ciclo di vita con l'effettuazione d'interventi manutentivi mirati; conseguire il risparmio di gestione sia con il contenimento dei consumi energetici o di altra natura, sia con la riduzione dei guasti e del tempo di non utilizzazione del bene immobile; consentire la pianificazione e l'organizzazione più efficiente ed economica del servizio di manutenzione.

- **Indice:**

- [elm. 1] Struttura in c.a. rivestita interna
- [elm. 2] Struttura in c.a. rivestita esterna
- [elm. 3] Struttura in c.a. fondazioni
- [elm. 4] Struttura in acciaio plinto con tirafondi
- [elm. 5] Struttura in acciaio generica esterna
- [elm. 6] Struttura in legno lamellare

-----[Elemento 1]-

- **Struttura in c.a. rivestita-interna** -

Dati generali

Opera :

Unità tecnologica: Strutture

Elemento tecnico: Struttura in c.a. rivestita interna

Descrizione: Elemento strutturale con superficie rivestita posto all'interno

Tipologia elemento: Struttura in C.A.

Identificazione

Identificazione tecnologica:

Componente:	Classe Materiale:	Note:
Calcestruzzo	Calcestruzzi	
Ferro tondo ad aderenza migliorata	Acciaio	
Paramento	Laterizi, pietre	

Elenco certificazioni/garanzie:

Tipo:	Descrizione:	Rilasciata da:
Certificazione	Certificato di conformità	Centrale di betonaggio
Certificazione	Certificato di conformità	Ferriera
Certificazione	Scheda tecnica	Ditta produttrice
Certificazione	Collaudo statico della struttura	tecnico terzo rispetto al progetto

1-Istruzioni:

[1.1] Installazione e Gestione

Modalità d'uso corretto:

La parete dovrà essere tratta con prodotti a base di acidi dopo la sua posa in opera al fine di prevenire le eventuali efflorescenze di calcare.

Modalità di esecuzione:

Predisporre elementi di aggrappaggio, tipo zanche o similari.

[1.2] Istruzioni per la dismissione e lo smantellamento

Istruzione per la dismissione e lo smantellamento:

Separare la le macerie di cls. e muratura dal ferro, e riutilizzare le macerie come riempimento o come sottofondo per la viabilità di cantiere. Il ferro tondo, va portato in apposite discariche.

Norme di sicurezza per gli interventi di dismissione:

Durante le fasi di demolizione necessita far si che l'operatore sia munito dei dovuti sistemi di protezione individuale, dell'uso di ponteggi fissi o mobili a seconda delle esigenze.

[1.3] Gestioni emergenze

Danni possibili:

- 1) Distaccamento del singolo elemento
- 2) Presenza sulla superficie di efflorescenze

3) Presenza di muffa o di bagnato

Modalità di intervento:

- 1) Ripristino attraverso uso di malte specifiche aventi forte potere adesivo
- 2) Trattamento attraverso soluzioni acide
- 3) Necessità valutare il gradiente termico e quindi attuare una adeguata soluzione di isolamento termico.

2-Prestazioni e anomalie

[2.1] Prestazioni

- **Classe di requisito:** Benessere termoigrometrico

Descrizione:

Capacità del materiale o del componente di garantire il mantenimento delle condizioni apprezzate dagli occupanti gli ambienti, nei limiti dei parametri statistici di accettabilità.

Livello minimo di prestazioni:

Stabilito dagli occupanti gli ambienti.

- **Classe di requisito:** Estetici

Descrizione:

Capacità del materiale o del componente di mantenere inalterato l'aspetto esteriore.

Livello minimo di prestazioni:

Garantire uniformità delle eventuali modificazioni dell'aspetto, senza compromettere requisiti funzionali.

- **Classe di requisito:** Resistenza meccanica

Descrizione:

Capacità del materiale di rimanere integro e non mostrare deformazioni rilevanti sotto l'azione di sollecitazioni superiori a quelle di progetto.

Livello minimo di prestazioni:

Stabilito in funzione del materiale dalle norme UNI o da prescrizioni normative riportate sul capitolato speciale d'appalto.

- **Classe di requisito:** Struttura - resistenza meccanica e stabilità

Descrizione:

Capacità dell'opera di sopportare i carichi prevedibili senza dar luogo a crollo totale o parziale, deformazioni inammissibili, deterioramenti di sue parti o degli impianti fissi, danneggiamenti anche conseguenti ad eventi accidentali ma comunque prevedibili.

Livello minimo di prestazioni:

Stabilito dal progettista in fase di progetto e dichiarato sulla relazione generale di progetto in funzione della concezione strutturale dell'opera e della vita utile stabilita per la struttura.

Norme:

D.M. 14/01/2008 Norme Tecniche per le costruzioni; DPR 246/93 (Regolamento di attuazione della direttiva in Italia) sui prodotti da costruzione.

- **Classe di requisito:** Struttura-durabilità

Descrizione:

Capacità di materiali e strutture di conservare le caratteristiche fisiche e meccaniche dei materiali e delle strutture si ottiene utilizzando materiali di ridotto degrado ovvero con dimensioni strutturali maggiorate necessarie a compensare il deterioramento prevedibile dei materiali durante la vita utile di progetto ovvero mediante procedure di manutenzione programmata.

Livello minimo di prestazioni:

Stabilito dal progettista in funzione della vita utile indicata per l'edificio, delle condizioni ambientali e delle caratteristiche dei materiali messi in opera nonché delle dimensioni minime degli elementi.

Norme:

Linee guida calcestruzzo strutturale-Consiglio Superiore LLPP; DPR 246/93 (Regolamento di attuazione della direttiva in Italia) sui prodotti da costruzione.

[2.2] Anomalie riscontrabili

- **Descrizione:** Alterazione finitura superficiale
Guasti, alterazioni ed irregolarità visibili:
Variazione del livello qualitativo della finitura superficiale.
Effetto ed inconvenienti:
Incremento della porosità e rugosità della superficie, diminuzione della lucidatura, variazione cromatica, aspetto degradato.
Cause possibili:
Assenza di adeguato trattamento protettivo, ambiente particolarmente umido, polvere.
Criterio di interventi:
Lucidatura, verniciatura.
- **Descrizione:** Danneggiamento
Guasti, alterazioni ed irregolarità visibili:
Diminuzione più o meno grave ed evidente di efficienza e di consistenza di un elemento.
Effetto ed inconvenienti:
Presenza di lesioni, aspetto degradato.
Cause possibili:
Cause accidentali, atti di vandalismo..
Criterio di interventi:
Sostituzione
- **Descrizione:** Danneggiamento 1
Guasti, alterazioni ed irregolarità visibili:
Diminuzione più o meno grave ed evidente di efficienza e di consistenza di un elemento.
Effetto ed inconvenienti:
Presenza di lesioni, aspetto degradato.
Cause possibili:
Cause accidentali, atti di vandalismo..
Criterio di interventi:
Ripristino dello strato di protezione
- **Descrizione:** Lesione
Guasti, alterazioni ed irregolarità visibili:
Rottura che si manifesta in una qualsiasi struttura quando lo sforzo a cui è sottoposta supera la resistenza corrispondente del materiale.
Effetto ed inconvenienti:
Fenditure interne più o meno ramificate (es. lesione isolata, diffusa, a croce, cantonale, a martello, verticale, a 45°, ecc.) e profonde (es. lesione capillare, macroscopica, ecc.). Scheggiatura e sfarinatura mensola del davanzale, pericolo per l'utenza per possibili cadute di frammenti..
Cause possibili:
Assestamento differenziale delle fondazioni per cedimenti del terreno (es. traslazione verticale, traslazione orizzontale, rotazione), schiacciamento per carico localizzato, schiacciamento dovuto al peso proprio, ritiro dell'intonaco per granulometria troppo piccola dell'inerte o per eccesso di legante, cicli di gelo e disgelo, penetrazione di acqua.
Criterio di interventi:
Ispezione tecnico specializzato, ripristino integrità blocchi.
- **Descrizione:** Macchia
Guasti, alterazioni ed irregolarità visibili:
Alterazione cromatica.
Effetto ed inconvenienti:
Modificazione circoscritta dell'aspetto con formazione di striature e chiazze identificabili per variazione di lucentezza, colore ed intensità, possibile sporcamento dell'utenza, erosione superficiale, aspetto degradato.

Cause possibili:

Apposizione di scritte e penetrazione di sostanze macchianti dovuta a: atti di vandalismo, scarsa sorveglianza, assenza di un trattamento preventivo antiaffissione.

Criterio di interventi:

Pulizia, verniciatura della base in ghisa.

- **Descrizione:** Rottura 1

Guasti, alterazioni ed irregolarità visibili:

Menomazione dell'integrità di un elemento muratura e danneggiamento grave.

Effetto ed inconvenienti:

Perdita della capacità portante, mancato isolamento acustico, aspetto degradato.

Cause possibili:

Cause accidentali, atti di vandalismo.

Criterio di interventi:

Sostituzione parziale e ripristino

- **Descrizione:** Umidità

Guasti, alterazioni ed irregolarità visibili:

Presenza più o meno accentuata di vapore acqueo.

Effetto ed inconvenienti:

Chiazze di umidità interne. Condensa. Variazione di microclima interno. Presenza di microrganismi o organismi (es. funghi, muffe, insetti, ecc.), diminuzione della resistenza al calore dei locali.

Cause possibili:

Infiltrazione verticale dal tetto. Infiltrazione di acqua in risalita dalla falda freatica o da acque disperse (dispersione da fogne e tubazioni, errato smaltimento acque meteoriche).

Criterio di interventi:

Ispezione tecnico specializzato.

3-Controlli e manutenzione

[3.1] Controlli

- **Dati generali**

Descrizione: Attraverso uso di strumenti

Modalità di ispezione:

Utilizzo di strumenti provvisti di sonde che determinano, l'eventuale mancanza.

Tempistica

Frequenza: 6 mesi

Periodo consigliato:...

Nota per il controllo:...

Esecutore: Personale specializzato (Vetraio)

Prestazioni da verificare

Benessere termoigrometrico (Macchia, Umidità)

- **Dati generali**

Descrizione: Strutturale

Modalità di ispezione:

Verifica integrità della struttura.

Tempistica

Frequenza: 10 anni

Periodo consigliato:...

Nota per il controllo:...

Esecutore: Personale specializzato

Prestazioni da verificare

Struttura - resistenza meccanica e stabilità (Danneggiamento 1, Lesione, Rottura 1)

Struttura - durabilità (Danneggiamento 1, Lesione, Rottura 1)

- **Dati generali**

Descrizione: Visiva sull'elemento tecnico

Modalità di ispezione:

Necessita valutare se sulla superficie vi sia una alterazione della finitura.

Inoltre bisogna valutare se la superficie presenta macchie di umidità.

Determinazione di eventuale distacco di elementi.

Tempistica

Frequenza: quando occorre

Periodo consigliato:...

Nota per il controllo:...

Esecutore: Utente

Prestazioni da verificare

Estetici (Alterazione della finitura, Danneggiamento , Macchia)

Resistenza meccanica (Danneggiamento)

Struttura - resistenza meccanica e stabilità (Danneggiamento)

Struttura - durabilità (Danneggiamento)

[3.2] Manutenzione

- **Descrizione:** Pulizia

Modalità di esecuzione:

Asportazione di polvere su blocchi e giunti, eseguita attraverso lavaggio a fondo con acqua e detersivi neutri (al fine di non asportare la finitura superficiale per corrosione del materiale) specifici per il materiale lapideo in oggetto. Smacchiatura delle lastre, attraverso l'applicazione di prodotti specifici e tecniche, compatibili con le caratteristiche del materiale.

Tempistica

Frequenza: 5 anni

Periodo consigliato: ...

Nota per la manutenzione: Estivo

Esecutore: Personale specializzato (Impresa specializzata)

Attrezzature necessarie: D.P.I., ponteggio esterno, piattaforma idraulica, trabattello, scala, idropulitrice.

Disturbi: Possibili interruzioni traffico veicolare e pedonale.

- **Descrizione:** Sostituzione

Modalità di esecuzione:

Rinnovo parziale dei blocchi in pietra totalmente usurati con altri dello stesso tipo (meglio se prelevati in cave della stessa zona), usando la tecnica del scuci e cuci.

Tempistica

Frequenza: 50 anni

Periodo consigliato: ...

Nota per la manutenzione: Estivo

Esecutore: Personale specializzato (Impresa specializzata)

Attrezzature necessarie: D.P.I., ponteggio esterno, piattaforma idraulica, trabattello, scala, utensili vari.

Disturbi: Possibili interruzioni traffico veicolare e pedonale.

-----[Elemento 2]-

- Struttura in c.a. rivestita-esterna -

Dati generali

Opera :

Unità tecnologica: Strutture

Elemento tecnico: Struttura in c.a. rivestita interna

Descrizione: Elemento strutturale con superficie rivestita posto all'esterno

Tipologia elemento: Struttura in C.A.

Identificazione

Identificazione tecnologica:

Componente:	Classe Materiale:	Note:
Calcestruzzo	Calcestruzzi	
Ferro tondo ad aderenza migliorata	Acciaio	
Paramento	Laterizi, pietre	

Elenco certificazioni/garanzie:

Tipo:	Descrizione:	Rilasciata da:
Certificazione	Certificato di conformità	Centrale di betonaggio
Certificazione	Certificato di conformità	Ferriera
Certificazione	Scheda tecnica	Ditta produttrice
Certificazione	Collaudo statico della struttura	tecnico terzo rispetto al progetto

1-Istruzioni:

[1.1] Installazione e Gestione

Modalità d'uso corretto:

La parete rivestita del paramento dovrà essere opportunamente trattata con prodotti specifici, a base di acidi dopo aver rimosso tutti i distanziatori per la formazione del copriferro di progetto

Modalità di esecuzione:

Bisogna predisporre un sistema di aggrappo alla struttura al fine di poter posare il paramento; la struttura puntiforme o a setti viene gettata in opera previa formazione di casseri in legno o pannelli dotati di opportuni distanziatori al fine di garantire la formazione del copriferro di progetto.

[1.2] Istruzioni per la dismissione e lo smantellamento

Istruzione per la dismissione e lo smantellamento:

ISTRUZIONI PER LO STOCCAGGIO DELLE MATERIE

accatastare in aree di cantiere protette dalle intemperie al fine di prevenire fenomeni di ossidazione

PROCEDURE PER LO SMALTIMENTO

Secondo le procedure di legge in quanto non assimilabile ai normali RSU; accertarsi che il materiale sia ripulito da materiali di classe diversa; stoccarlo in appositi contenitori per evitarne la dispersione in ambiente.

INDICAZIONI PER IL RICICLAGGIO

Riutilizzabili quale riempimento nell'ambito del cantiere.

Norme di sicurezza per gli interventi di dismissione: ...

[1.3] Gestioni emergenze

Danni possibili:

- a) Distacco del singolo paramento, o lieve lesione
- b) Presenza di colorazione bianca sulla parete
- c) Presenza di muffa

Modalità di intervento:

- a) Ripristino o sostituzione
- b) Trattare la parete con acidi appositi che eliminano la presenza di calcare
- c) Rimuovere la superficie per intervenire attraverso un trattamento di impermeabilizzazione

2-Prestazioni e anomalie

[2.1] Prestazioni

- **Classe di requisito:** Estetici

Descrizione:

Capacità del materiale o del componente di mantenere inalterato l'aspetto esteriore.

Livello minimo di prestazioni:

Garantire uniformità delle eventuali modificazioni dell'aspetto, senza compromettere requisiti funzionali.

- **Classe di requisito:** Resistenza agenti esogeni
Descrizione:
 Capacità del materiale o del componente di garantire l'invariabilità del tempo delle caratteristiche fissate sul progetto.
Livello minimo di prestazioni:
 Stabilito in funzione delle condizioni ambientali dalle norme UNI o da prescrizioni normative riportate sul capitolato speciale d'appalto.

- **Classe di requisito:** Resistenza attacchi biologici
Descrizione:
 Capacità del materiale di resistere agli attacchi di microrganismi o organismi animali e/o vegetali che possano alterarne le caratteristiche.
Livello minimo di prestazioni:
 Variabili in funzione del materiale, delle condizioni di posa nonché della localizzazione rispetto a fattori in grado di favorire la proliferazione degli agenti biologici (esposizione, umidità etc).

- **Classe di requisito:** Stabilità
Descrizione:
 Capacità dell'elemento di permetterne l'uso pur in presenza di lesioni.
Livello minimo di prestazioni:
 Stabilito in funzione del materiale dalle norme UNI o da prescrizioni normative riportate sul capitolato speciale d'appalto.

- **Classe di requisito:** Struttura - resistenza meccanica e stabilità
Descrizione:
 Capacità dell'opera di sopportare i carichi prevedibili senza dar luogo a crollo totale o parziale, deformazioni inammissibili, deterioramenti di sue parti o degli impianti fissi, danneggiamenti anche conseguenti ad eventi accidentali ma comunque prevedibili.
Livello minimo di prestazioni:
 Stabilito dal progettista in fase di progetto e dichiarato sulla relazione generale di progetto in funzione della concezione strutturale dell'opera e della vita utile stabilita per la struttura.
Norme:
 D.M. 14/01/2008 Norme Tecniche per le costruzioni; DPR 246/93 (Regolamento di attuazione della direttiva in Italia) sui prodotti da costruzione.

- **Classe di requisito:** Struttura-durabilità
Descrizione:
 Capacità di materiali e strutture di conservare le caratteristiche fisiche e meccaniche dei materiali e delle strutture si ottiene utilizzando materiali di ridotto degrado ovvero con dimensioni strutturali maggiorate necessarie a compensare il deterioramento prevedibile dei materiali durante la vita utile di progetto ovvero mediante procedure di manutenzione programmata.
Livello minimo di prestazioni:
 Stabilito dal progettista in funzione della vita utile indicata per l'edificio, delle condizioni ambientali e delle caratteristiche dei materiali messi in opera nonché delle dimensioni minime degli elementi.
Norme:
 Linee guida calcestruzzo strutturale-Consiglio Superiore LLPP; DPR 246/93 (Regolamento di attuazione della direttiva in Italia) sui prodotti da costruzione.

[2.2] Anomalie riscontrabili

- **Descrizione:** Alterazione finitura superficiale
Guasti, alterazioni ed irregolarità visibili:
 Variazione del livello qualitativo della finitura superficiale.
Effetto ed inconvenienti:
 Incremento della porosità e rugosità della superficie, diminuzione della lucidatura, variazione cromatica, aspetto degradato.
Cause possibili:

Irraggiamento solare diretto, assenza di adeguato trattamento protettivo.

Criterio di interventi:

Sostituzione

- **Descrizione:** Danneggiamento

Guasti, alterazioni ed irregolarità visibili:

Diminuzione più o meno grave ed evidente di efficienza e di consistenza di un elemento.

Effetto ed inconvenienti:

Presenza di lesioni, aspetto degradato.

Cause possibili:

Cause accidentali, atti di vandalismo..

Criterio di interventi:

Sostituzione

- **Descrizione:** Efflorescenza

Guasti, alterazioni ed irregolarità visibili:

Formazione cristallina di sali solubili sulla superficie dei materiali.

Effetto ed inconvenienti:

Distacco, disgregazione.

Cause possibili:

Sbalzi termici, umidità, cristallizzazione salina.

Criterio di interventi:

Trattamento superficiale con resine specifiche.

- **Descrizione:** Umidità da infiltrazione

Guasti, alterazioni ed irregolarità visibili:

Presenza più o meno accentuata di vapore acqueo.

Effetto ed inconvenienti:

Chiazze di umidità sull'estradosso della parete.

Cause possibili:

Infiltrazione di acqua nella parete.

Criterio di intervento:

Contattare tecnico specializzato.

3-Controlli e manutenzione

[3.1] Controlli

- **Dati generali**

Descrizione: Valutazione attraverso il contatto

Modalità di ispezione:

Verificare il colore della superficie. Se il colore è simile al verde si tratta di infiltrazione, se il colore è bianco è calcare.

Tempistica

Frequenza: 12 mesi

Periodo consigliato:...

Nota per il controllo:...

Esecutore: Personale specializzato (Operaio qualificato)

Prestazioni da verificare

Estetici (Alterazione finitura superficiale)

Resistenza attacchi biologici (Alterazione finitura superficiale)

- **Dati generali**

Descrizione: Visiva

Modalità di ispezione:

Valutazione sulla superficie esterna per valutare se bisogna intervenire attraverso una sostituzione

o meno.

Tempistica

Frequenza: ...

Periodo consigliato:...

Nota per il controllo:...

Esecutore: Personale specializzato

Prestazioni da verificare

Estetici (Danneggiamento)

Resistenza agenti esogeni (Efflorescenza)

Resistenza attacchi biologici (Efflorescenza)

Stabilità (Danneggiamento)

Struttura - resistenza meccanica e stabilità (Danneggiamento)

Struttura - durabilità (Danneggiamento)

[3.2] Manutenzione

- **Descrizione:** Ripristino

Modalità di esecuzione:

Nuovo montaggio del paramento.

Tempistica

Frequenza: ...

Periodo consigliato: ...

Nota per la manutenzione: ...

Esecutore: Personale specializzato

Attrezzature necessarie: ...

Disturbi: ...

- **Descrizione:** Trattamento con prodotti specifici

Modalità di esecuzione:

Se si tratta di infiltrazione bisognerà adoperare prodotti che conferiscono al supporto carattere impermeabilizzante. Se si tratta di calcare bisogna utilizzare degli acidi di modo che si lava la superficie.

Tempistica

Frequenza: 24 mesi

Periodo consigliato: ...

Nota per la manutenzione: ...

Esecutore: Personale specializzato (Operaio qualificato)

Attrezzature necessarie:

Disturbi: ...

-----[Elemento 3]-

- Struttura in c.a. fondazioni-

Dati generali

Opera :

Unità tecnologica: Strutture

Elemento tecnico: Struttura in c.a. fondazioni

Descrizione: Opere in c.a. necessarie a ripartire i carichi di progetto sul terreno di base; realizzate con elementi gettati in opera di opportune dimensioni atte a trasmettere i carichi di progetto, verticali ed orizzontali, come definiti dalle norme proprie dell'opera da realizzare e comunque sul progetto.

Tipologia elemento: Struttura in C.A.

Identificazione

Identificazione tecnologica:

Componente:	Classe Materiale:	Note:
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Cemento, acqua, inerte	Calcestruzzi	
Ferro tondo ad aderenza migliorata	Acciaio	

Elenco certificazioni/garanzie:

Tipo:	Descrizione:	Rilasciata da:
Certificazione	Dichiarazione di conformità	Ferriera
Certificazione	Dichiarazione di conformità	Centrale di betonaggio
Certificazione	collaudo strutturale	tecnico terzo rispetto al progetto

1-Istruzioni:

[1.1] Installazione e Gestione

Modalità d'uso corretto:

E' opportuno che la struttura non venga modificata nella sua natura e nelle sue sezioni, in relazione a quanto predisposto dal progettista. Deve essere sottoposta ai carichi per cui è stata progettata.

Modalità di esecuzione:

Assemblaggio armatura di confezionamento, realizzazione di casseratura opportunamente trattata con disarmante. Utilizzo di legname e/o pannelli non deteriorati, e di distanziatori e quant'altro occorrente per dare l'opera finita secondo quanto detta la buona norma. Durante il getto del cls, si richiede l'uso del vibratore.

[1.2] Istruzioni per la dismissione e lo smantellamento

Istruzione per la dismissione e lo smantellamento:

ISTRUZIONI PER LO STOCCAGGIO DELLE MATERIE

Realizzare la separazione tra l'armatura dall'inerte.

Utilizzare l'inerte come riempimento.

INDICAZIONI PER IL RICICLAGGIO

Riutilizzabili quale riempimento nell'ambito del cantiere

Norme di sicurezza per gli interventi di dismissione:

Si richiede che l'operatore in fase di dismissione sia dotato degli opportuni DPI.

[1.3] Gestioni emergenze

Danni possibili:...

Modalità di intervento: ...

2-Prestazioni e anomalie

[2.1] Prestazioni

- Classe di requisito: Stabilità

Descrizione:

Capacità dell'elemento di permetterne l'uso pur in presenza di lesioni.

Livello minimo di prestazioni:

Stabilito in funzione del materiale dalle norme UNI o da prescrizioni normative riportate sul capitolato speciale d'appalto.

Norme:

D.M. 14 gennaio 2008

- Classe di requisito: Struttura - resistenza meccanica e stabilità

Descrizione:

Capacità dell'opera di sopportare i carichi prevedibili senza dar luogo a crollo totale o parziale, deformazioni inammissibili, deterioramenti di sue parti o degli impianti fissi, danneggiamenti anche conseguenti ad eventi accidentali ma comunque prevedibili.

Livello minimo di prestazioni:

Stabilito dal progettista in fase di progetto e dichiarato sulla relazione generale di progetto in funzione della concezione strutturale dell'opera e della vita utile stabilita per la struttura.

Norme:

D.M. 14/01/2008 Norme Tecniche per le costruzioni; DPR 246/93 (Regolamento di attuazione della direttiva in Italia) sui prodotti da costruzione.

- Classe di requisito: Struttura-durabilità

Descrizione:

Capacità di materiali e strutture di conservare le caratteristiche fisiche e meccaniche dei materiali e delle strutture si ottiene utilizzando materiali di ridotto degrado ovvero con dimensioni strutturali maggiorate necessarie a compensare il deterioramento prevedibile dei materiali durante la vita utile di progetto ovvero mediante procedure di manutenzione programmata.

Livello minimo di prestazioni:

Stabilito dal progettista in funzione della vita utile indicata per l'edificio, delle condizioni ambientali e delle caratteristiche dei materiali messi in opera nonché delle dimensioni minime degli elementi.

Norme:

Linee guida calcestruzzo strutturale-Consiglio Superiore LLPP; DPR 246/93 (Regolamento di attuazione della direttiva in Italia) sui prodotti da costruzione.

[2.2] Anomalie riscontrabili**- Descrizione:** Corrosione**Guasti, alterazioni ed irregolarità visibili:**

Degradazione che implica l'evolversi di un processo chimico; rigonfiamenti del copriferro.

Effetto ed inconvenienti:

Distacco del copriferro e lesioni in corrispondenza all'attacco degli elementi verticali portanti insistenti sulla fondazione con formazione di striature di ruggine per colature, aspetto degradato.

Cause possibili:

Fattori esterni (ambientali o climatici), incompatibilità dei materiali e dei componenti, mancata/carente/cattiva manutenzione, cause accidentali.

Criterio di intervento:

Rimozione delle parti di calcestruzzo ammalorato, rimozione della ruggine con energica spazzolatura, protezione con idoneo passivante e ricostruzione dei copriferri..

- Descrizione: Danneggiamento**Guasti, alterazioni ed irregolarità visibili:**

Diminuzione più o meno grave ed evidente di efficienza e di consistenza di un elemento ..

Effetto ed inconvenienti:

Presenza di lesioni, aspetto degradato.

Cause possibili:

Cause accidentali, atti di vandalismo..

Criterio di intervento:

Rimozione delle parti di calcestruzzo ammalorato, rimozione della ruggine con energica spazzolatura, protezione con idoneo passivante e ricostruzione dei copriferri.

- Descrizione: Deformazione**Guasti, alterazioni ed irregolarità visibili:**

Alterazione duratura dell'aspetto e della configurazione, misurabile dalla variazione delle distanze tra i suoi punti.

Effetto ed inconvenienti:

Inflessione visibile, rigonfiamenti, distacchi, lesioni.

Cause possibili:

Presenza di carichi superiori a quelli di calcolo, cedimenti al di sotto del piano di posa.

Criterio di intervento:

Rimozione di carichi e/o ripristino strutturale, progettazione di rinforzi, sottofondazioni locali, eliminazione delle cause delle eventuali modifiche geomorfologiche del terreno.

- Descrizione: Lesione**Guasti, alterazioni ed irregolarità visibili:**

Rottura che si manifesta in una qualsiasi struttura quando lo sforzo a cui è sottoposta supera la resistenza corrispondente del materiale.

Effetto ed inconvenienti:

Fenditure interne più o meno ramificate (es. lesione isolata, diffusa, a croce, cantonale, a martello,

verticale, a 45°, ecc.) e profonde (es. lesione capillare, macroscopica, ecc.).

Cause possibili:

Assestamento differenziale delle fondazioni per cedimenti del terreno (es. traslazione verticale, traslazione orizzontale, rotazione). Schiacciamento per carico localizzato. Schiacciamento dovuto al peso proprio. Ritiro dell'intonaco per granulometria troppo piccola dell'inerte o per eccesso di legante. Cicli di gelo e disgelo. Penetrazione di acqua.

Criterio di intervento:

Ispezione tecnico specializzato, progettazione di rinforzi, sottofondazioni locali, eliminazione delle cause delle eventuali modifiche geomorfologiche del terreno

- **Descrizione:** Rottura

Guasti, alterazioni ed irregolarità visibili:

Menomazione dell'integrità di un elemento e danneggiamento grave.

Effetto ed inconvenienti:

Perdita delle capacità portanti, aspetto degradato.

Cause possibili:

Cause accidentali, atti di vandalismo, superamento dei carichi di progetto, cambiamenti delle condizioni locali del terreno di fondazione - variazioni del livello di falda, delle condizioni meccaniche del terreno

Criterio di intervento:

progettazione di rinforzi, sottofondazioni locali, eliminazione delle cause delle eventuali modifiche geomorfologiche del terreno

3-Controlli e manutenzione

[3.1] Controlli

- **Dati generali**

Descrizione: Controllo con strumento

Modalità di ispezione:

Verificare con lo strumento quale sia la classe di resistenza e confrontarla con quanto riportato in relazione di calcolo. Fare più valutazioni a campione di modo che si possa avere un valore medio.

Tempistica

Frequenza: quando occorre

Periodo consigliato:...

Nota per il controllo:...

Esecutore: Personale specializzato (Tecnico specializzato)

Prestazioni da verificare

Stabilità (Danneggiamento, Rottura)

Struttura - Resistenza Meccanica (Lesione, Danneggiamento, Corrosione, Deformazione)

- **Dati generali**

Descrizione: Ispezione visiva

Modalità di ispezione:

Valutazione della lesione, in termini di dimensione e andamento o della situazione che ha messo a nudo porzioni della fondazione

Tempistica

Frequenza: quando occorre

Periodo consigliato:...

Nota per il controllo: ...

Esecutore: Utente

Prestazioni da verificare

Stabilità (Danneggiamento, Rottura)

Struttura - Resistenza Meccanica (Lesione, Deformazione)

- **Dati generali**

Descrizione: Strutturale

Modalità di ispezione:

Verifica integrità della struttura.

Tempistica

Frequenza: 10 anni

Periodo consigliato:...

Nota per il controllo: ...

Esecutore: Personale specializzato (Tecnico specializzato)

Prestazioni da verificare

Stabilità (Danneggiamento, Rottura, Deformazione)

[3.2] Manutenzione

- **Descrizione:** Resine bicomponenti

Modalità di esecuzione:

Utilizzo di resine bicomponenti, al fine di ripristinare l'eventuale lesione e riconferire alla struttura le caratteristiche statiche iniziali.

Tempistica

Frequenza: quando occorre

Periodo consigliato: ...

Nota per la manutenzione: ...

Esecutore: Personale specializzato (Tecnico specializzato)

Disturbi: ...

- **Descrizione:** Ripristino

Modalità di esecuzione:

Eventuali lavori di ripristino integrità del materiale attraverso: applicazione di stucchi specifici sulle lesioni; trattamento superficiale con resine specifiche per il fenomeno dell'efflorescenza; stilatura giunti con malta cementizia.

Tempistica

Frequenza: quando occorre

Periodo consigliato: ...

Nota per la manutenzione: ...

Esecutore: Personale specializzato (Impresa specializzata)

Disturbi: Possibili interruzioni traffico veicolare e pedonale.

- **Descrizione:** Utilizzo di malte

Modalità di esecuzione:

Stesa di malte del tipo tixotropica, epossidica, o primer.

Tempistica

Frequenza: quando occorre

Periodo consigliato: ...

Nota per la manutenzione:...

Esecutore: Personale specializzato (Operaio specializzato)

Disturbi: Impossibilità di transitare in adiacenza all'area d'intervento.

-----[Elemento 4]-

- Struttura in acciaio plinto di fondazione con tirafondi-

Dati generali

Opera :

Unità tecnologica: Struttura

Elemento tecnico: Struttura in acciaio plinto di fondazione con tirafondi

Descrizione: Opere in c.a. necessarie a ripartire i carichi di progetto sul terreno di base trasmessi dai pilastri in acciaio ; Tali opere sono realizzate con elementi gettati in opera di opportune dimensioni atte a trasmettere i

carichi di progetto, verticali ed orizzontali, come definiti dalle norme proprie dell'opera da realizzare e comunque sul progetto garantendo il perfetto allineamento dei tirafondi di collegamento e solidarizzazione dei pilastri e la trasmissione del carico dovuto alla sovrastruttura.

Tipologia elemento: Struttura in C.A.

Identificazione

Identificazione tecnologica:

Componente:	Classe Materiale:	Note:
Cemento, acqua, inerte	Calcestruzzi	
Ferro tondo ad aderenza migliorata	Acciaio	
Tirafondi in acciaio	Acciaio	elementi in acciaio fissati con dima
		alle armature del calcestruzzo

Elenco certificazioni/garanzie:

Tipo:	Descrizione:	Rilasciata da:
Certificazione	Dichiarazione di conformità	Ferriera
Certificazione	Dichiarazione di conformità	Centrale di betonaggio
Certificazione	collaudo strutturale	tecnico terzo rispetto al progetto

1-Istruzioni:

[1.1] Installazione e Gestione

Modalità d'uso corretto:

E' opportuno che la struttura non venga modificata nella sua natura e nelle sue sezioni, in relazione a quanto predisposto dal progettista. Deve essere sottoposta ai carichi per cui è stata progettata.

Modalità di esecuzione:

Assemblaggio armatura di confezionamento, realizzazione di cassetta opportunamente trattata con disarmante. Utilizzo di legname e/o pannelli non deteriorati, e di distanziatori e quant'altro occorrente per dare l'opera finita secondo quanto detta la buona norma. Dopo il posizionamento delle armature è necessario fissare con opportuna dima di posizionamento i tirafondi dimensionati per trasferire al blocco di fondazione i carichi della sovrastruttura. Durante il getto del cls, si richiede l'uso del vibratore.

[1.2] Istruzioni per la dismissione e lo smantellamento

Istruzione per la dismissione e lo smantellamento:

ISTRUZIONI PER LO STOCCAGGIO DELLE MATERIE

Realizzare la separazione tra l'armatura dall'inerte.

Utilizzare l'inerte come riempimento.

INDICAZIONI PER IL RICICLAGGIO

Riutilizzabili quale riempimento nell'ambito del cantiere

Norme di sicurezza per gli interventi di dismissione:

Si richiede che l'operatore in fase di dismissione sia dotato degli opportuni DPI.

[1.3] Gestioni emergenze

Danni possibili:...

Modalità di intervento: ...

2-Prestazioni e anomalie

[2.1] Prestazioni

- **Classe di requisito:** Stabilità

Descrizione:

Capacità dell'elemento di permetterne l'uso pur in presenza di lesioni.

Livello minimo di prestazioni:

Stabilito in funzione del materiale dalle norme UNI o da prescrizioni normative riportate sul capitolato speciale d'appalto.

Norme:

D.M. 14 gennaio 2008

- **Classe di requisito:** Struttura - resistenza meccanica e stabilità

Descrizione:

Capacità dell'opera di sopportare i carichi prevedibili senza dar luogo a crollo totale o parziale, deformazioni inammissibili, deterioramenti di sue parti o degli impianti fissi, danneggiamenti anche conseguenti ad eventi accidentali ma comunque prevedibili.

Livello minimo di prestazioni:

Stabilito dal progettista in fase di progetto e dichiarato sulla relazione generale di progetto in funzione della concezione strutturale dell'opera e della vita utile stabilita per la struttura.

Norme:

D.M. 14/01/2008 Norme Tecniche per le costruzioni; DPR 246/93 (Regolamento di attuazione della direttiva in Italia) sui prodotti da costruzione.

- **Classe di requisito:** Struttura-durabilità

Descrizione:

Capacità di materiali e strutture di conservare le caratteristiche fisiche e meccaniche dei materiali e delle strutture si ottiene utilizzando materiali di ridotto degrado ovvero con dimensioni strutturali maggiorate necessarie a compensare il deterioramento prevedibile dei materiali durante la vita utile di progetto ovvero mediante procedure di manutenzione programmata.

Livello minimo di prestazioni:

Stabilito dal progettista in funzione della vita utile indicata per l'edificio, delle condizioni ambientali e delle caratteristiche dei materiali messi in opera nonché delle dimensioni minime degli elementi.

Norme:

Linee guida calcestruzzo strutturale-Consiglio Superiore LLPP; DPR 246/93 (Regolamento di attuazione della direttiva in Italia) sui prodotti da costruzione.

[2.2] Anomalie riscontrabili

- **Descrizione:** Corrosione

Guasti, alterazioni ed irregolarità visibili:

Degradazione che implica l'evolversi di un processo chimico; rigonfiamenti del copriferro.

Effetto ed inconvenienti:

Distacco del copriferro e lesioni in corrispondenza all'attacco degli elementi verticali portanti insistenti sulla fondazione con formazione di striature di ruggine per colature, aspetto degradato.

Cause possibili:

fattori esterni (ambientali o climatici), incompatibilità dei materiali e dei componenti, mancata/carente/cattiva manutenzione, cause accidentali

Criterio di intervento:

rimozione delle parti di calcestruzzo ammalorato, rimozione della ruggine con energica spazzolatura, protezione con idoneo passivante e ricostruzione dei copriferri.

- **Descrizione:** Danneggiamento

Guasti, alterazioni ed irregolarità visibili:

Diminuzione più o meno grave ed evidente di efficienza e di consistenza di un elemento .

Effetto ed inconvenienti:

Presenza di lesioni, aspetto degradato.

Cause possibili:

Cause accidentali, atti di vandalismo.

Criterio di intervento:

Rimozione delle parti di calcestruzzo ammalorato, rimozione della ruggine con energica spazzolatura, protezione con idoneo passivante e ricostruzione dei copriferri.

- **Descrizione:** Deformazione

Guasti, alterazioni ed irregolarità visibili:

Alterazione duratura dell'aspetto e della configurazione, misurabile dalla variazione delle distanze tra i suoi punti.

Effetto ed inconvenienti:

Inflessione visibile; rigonfiamenti; distacchi; lesioni.

Cause possibili:

Presenza di carichi superiori a quelli di calcolo, cedimenti del terreno al di sotto del piano di posa

Criterio di intervento:

Rimozione di carichi e/o ripristino strutturale, progettazione di rinforzi, sottofondazioni locali, eliminazione delle cause delle eventuali modifiche geomorfologiche del terreno.

- **Descrizione:** Lesione

Guasti, alterazioni ed irregolarità visibili:

Rottura che si manifesta in una qualsiasi struttura quando lo sforzo a cui è sottoposta supera la resistenza corrispondente del materiale.

Effetto ed inconvenienti:

Fenditure interne più o meno ramificate (es. lesione isolata, diffusa, a croce, cantonale, a martello, verticale, a 45°, ecc.) e profonde (es. lesione capillare, macroscopica, ecc.).

Cause possibili:

Assestamento differenziale delle fondazioni per cedimenti del terreno (es. traslazione verticale, traslazione orizzontale, rotazione). Schiacciamento per carico localizzato. Schiacciamento dovuto al peso proprio. Ritiro dell'intonaco per granulometria troppo piccola dell'inerte o per eccesso di legante. Cicli di gelo e disgelo. Penetrazione di acqua.

Criterio di intervento:

Ispezione tecnico specializzato, progettazione di rinforzi, sottofondazioni locali, eliminazione delle cause delle eventuali modifiche geomorfologiche del terreno

- **Descrizione:** Rottura

Guasti, alterazioni ed irregolarità visibili:

Menomazione dell'integrità di un elemento e danneggiamento grave.

Effetto ed inconvenienti:

Perdita delle capacità portanti, aspetto degradato.

Cause possibili:

Cause accidentali, atti di vandalismo, superamento dei carichi di progetto, cambiamenti delle condizioni locali del terreno di fondazione - variazioni del livello di falda, delle condizioni meccaniche del terreno

Criterio di intervento:

progettazione di rinforzi, sottofondazioni locali, eliminazione delle cause delle eventuali modifiche geomorfologiche del terreno

3-Controlli e manutenzione

[3.1] Controlli

- **Dati generali**

Descrizione: Controllo con strumento

Modalità di ispezione:

Verificare con lo strumento quale sia la classe di resistenza e confrontarla con quanto riportato in relazione di calcolo. Fare più valutazioni a campione di modo che si possa avere un valore medio.

Tempistica

Frequenza: quando occorre

Periodo consigliato: ...

Nota per il controllo: ...

Esecutore: Personale specializzato (Tecnico specializzato)

Prestazioni da verificare

Stabilità (Danneggiamento, Rottura)

Struttura - Resistenza meccanica e stabilità (Danneggiamento, Lesione, Corrosione, Deformazione)

- **Dati generali**

Descrizione: Ispezione visiva

Modalità di ispezione:

Valutazione della lesione, in termini di dimensione e andamento o della situazione che ha messo a nudo porzioni della fondazione

Tempistica

Frequenza: quando occorre

Periodo consigliato: ...

Nota per il controllo: ...

Esecutore: Utente

Prestazioni da verificare

Stabilità (Danneggiamento, Rottura)

Struttura - Resistenza meccanica e stabilità (Deformazione, Lesione)

- Dati generali

Descrizione: Strutturale

Modalità di ispezione:

Verifica integrità della struttura.

Tempistica

Frequenza: 10 anni

Periodo consigliato: ...

Nota per il controllo: ...

Esecutore: Personale specializzato (Tecnico specializzato)

Prestazioni da verificare

Stabilità (Danneggiamento, Rottura, Deformazione)

Struttura - Resistenza meccanica e stabilità (Deformazione, Rottura)

Struttura - durabilità (Corrosione, Danneggiamento, Deformazione)

[3.2] Manutenzione**- Descrizione:** Resine bicomponenti**Modalità di esecuzione:**

Utilizzo di resine bicomponenti, al fine di ripristinare l'eventuale lesione e riconferire alla struttura le caratteristiche statiche iniziali.

Tempistica

Frequenza: quando occorre

Periodo consigliato: ...

Nota per la manutenzione: ...

Esecutore: Personale specializzato (Tecnico specializzato)

Disturbi: ...

- Descrizione: Ripristino**Modalità di esecuzione:**

Eventuali lavori di ripristino integrità del materiale attraverso: applicazione di stucchi specifici sulle lesioni; trattamento superficiale con resine specifiche per il fenomeno dell'efflorescenza; stilatura giunti con malta cementizia.

Tempistica

Frequenza: quando occorre

Periodo consigliato: ...

Nota per la manutenzione: ...

Esecutore: Personale specializzato (Impresa specializzata)

Disturbi: Possibili interruzioni traffico veicolare e pedonale.

- Descrizione: Utilizzo di malte**Modalità di esecuzione:**

Stesa di malte del tipo tixotropica, epossidica, o primer.

Tempistica

Frequenza: quando occorre

Periodo consigliato: ...
 Nota per la manutenzione: ...
 Esecutore: Personale specializzato (Operaio specializzato)
 Disturbi: Impossibilità di transitare in adiacenza all'area d'intervento.

-----[Elemento 5]-

- Struttura in acciaio generica esterna-

Dati generali

Opera :

Unità tecnologica: Chiusura verticale

Elemento tecnico: Struttura in acciaio generica esterna

Descrizione: Carpenteria in acciaio leggera da installarsi all'esterno.

Tipologia elemento: Struttura in acciaio

Identificazione

Identificazione tecnologica:

Componente:	Classe Materiale:	Note:
Carpenteria metallica	Acciaio	Profili UNI

1-Istruzioni:

[1.1] Installazione e Gestione

Modalità d'uso corretto:

E' opportuno che la struttura non venga sovraccaricata, e che venga opportunamente trattata con prodotti coprenti che gli conferiscono, una adeguata resistenza agli agenti atmosferici.

All'atto della posa si dovranno rispettare gli allineamenti al fine di non creare sollecitazioni non previste.

Modalità di esecuzione:

Necessita innanzi tutto posare i tirafondi secondo gli allineamenti prefissati, dopo di che si dovrà provvedere all'assemblaggio della struttura.

Assemblaggio che preferibilmente sarà eseguito attraverso realizzazioni di nodi bullonati, si preferisce che le saldature vengano fatte in officina, dove è possibile fare una lavorazione più attinente a quanto prescrive la normativa.

[1.2] Istruzioni per la dismissione e lo smantellamento

Istruzione per la dismissione e lo smantellamento:

Necessita smontare la struttura e portare il tutto in discariche autorizzate.

Norme di sicurezza per gli interventi di dismissione:

Uso dei D.P.I., utilizzo di attrezzature di uso comune, Auto gru, ponteggi mobili e/o fissi.

[1.3] Gestioni emergenze

Danni possibili:

- 1) Lesione
- 2) Presenza di ruggine
- 3) Deformazione

Modalità di intervento:

- 1) Sostituzione dell'elemento
- 2) Intervento attraverso pulitura della superficie, e posa del prodotto antiruggine
- 3) Valutazione sulle nuove condizioni statiche ed eventuale sostituzione

2-Prestazioni e anomalie

[2.1] Prestazioni

- **Classe di requisito:** Estetici

Descrizione:

Capacità del materiale o del componente di mantenere inalterato l'aspetto esteriore.

Livello minimo di prestazioni:

Garantire uniformità delle eventuali modificazioni dell'aspetto, senza compromettere requisiti

funzionali.

- **Classe di requisito:** Resistenza agenti esogeni
Descrizione:
Capacità del materiale o del componente di garantire l'invariabilità del tempo delle caratteristiche fissate sul progetto.
Livello minimo di prestazioni:
Stabilito in funzione delle condizioni ambientali dalle norme UNI o da prescrizioni normative riportate sul capitolato speciale d'appalto.
- **Classe di requisito:** Resistenza meccanica
Descrizione:
Capacità del materiale di rimanere integro e non mostrare deformazioni rilevanti sotto l'azione di sollecitazioni superiori a quelle di progetto.
Livello minimo di prestazioni:
Stabilito in funzione del materiale dalle norme UNI o da prescrizioni normative riportate sul capitolato speciale d'appalto.

[2.2] Anomalie riscontrabili

- **Descrizione:** Corrosione
Guasti, alterazioni ed irregolarità visibili:
Degradazione che implica sempre l'evolversi di un processo chimico.
Effetto ed inconvenienti:
Alterazione dello strato superficiale. Presenza di ruggine con possibile sporcamento dovuto a colature. Indebolimento della struttura in corrispondenza degli incastri. Aspetto degradato.
Cause possibili:
Umidità. Mancato trattamento anticorrosivo.
Criterio di intervento:
Verniciatura
- **Descrizione:** Deformazione
Guasti, alterazioni ed irregolarità visibili:
Alterazione duratura dell'aspetto o della configurazione di un elemento, misurabile dalla variazione delle distanze fra i suoi punti.
Effetto ed inconvenienti:
Elementi piegati, perdita della funzione originaria di protezione, pericolo per l'utenza, instabilità, aspetto degradato.
Cause possibili:
Forzature per cause accidentali o atti di vandalismo, difetto di giunzione.
Criterio di intervento:
Ripristino integrità elementi
- **Descrizione:** Rottura
Guasti, alterazioni ed irregolarità visibili:
Menomazione dell'integrità di un elemento e danneggiamento grave
Effetto ed inconvenienti:
Aspetto degradato, pericolo per l'utenza dovuta ad elementi taglienti, sconnessione dei collegamenti, indebolimento della struttura dovuto a piegamenti.
Cause possibili:
Ruggine, urti, forzature degli incastri.
Criterio di intervento:
Ripristino integrità elementi o sostituzione.

3-Controlli e manutenzione

[3.1] Controlli

- **Dati generali**

Descrizione: Generale

Modalità di ispezione:

Valutazione della presenza di punti di corrosione.

Tempistica

Frequenza: 1 anno

Periodo consigliato: ...

Nota per il controllo: ...

Esecutore: Personale specializzato (Operaio specializzato)

Prestazioni da verificare

Estetici (Corrosione)

Resistenza agenti esogeni (Corrosione)

Resistenza meccanica (Deformazione, Rottura)

- **Dati generali**

Descrizione: Visiva sull'elemento tecnico

Modalità di ispezione:

Verificare l'integrità della struttura attraverso l'assenza di fenomeni di corrosione, deformazione e rottura.

Tempistica

Frequenza: 1 anno

Periodo consigliato: ...

Nota per il controllo: ...

Esecutore: Utente

Prestazioni da verificare

Estetici (Corrosione)

Resistenza agenti esogeni (Corrosione)

[3.2] **Manutenzione ...**

-----[Elemento 6]-

- Struttura in legno lamellare -

Dati generali

Opera :

Unità tecnologica: Strutture

Elemento tecnico: Struttura in legno lamellare

Descrizione: Struttura in elementi di legno lamellare realizzata con elementi orizzontali e verticali assemblati mediante elementi di unione bullonati o chiodati.

Tipologia elemento: Struttura in legno

Identificazione

Identificazione tecnologica:

Componente:	Classe Materiale:	Note:
Bulloni e chiodi	Metalli	
Elementi in legno lamellare	Legnami	
Rivestimento superficiale	Pitture e vernici	

Elenco certificazioni/garanzie:

Tipo:	Descrizione:	Rilasciata da:
Certificazione	collaudo statico della struttura	tecnico terzo rispetto al progetto

1-Istruzioni:

[1.1] Installazione e Gestione

Modalità d'uso corretto:

Non ridurre le sezioni resistenti con fori o tagli;

Mantenere i carichi e le sollecitazioni nei limiti di quelli definiti in fase di progetto.

Modalità di esecuzione:

Particolare attenzione deve essere posta in funzione delle condizioni ambientali alla protezione degli elementi metallici di giunzione protetti eventualmente con la zincatura a freddo.

[1.2] Istruzioni per la dismissione e lo smantellamento

Istruzione per la dismissione e lo smantellamento:

PROCEDURE PER LO SMALTIMENTO

Secondo le procedure di legge in quanto non assimilabile ai normali RSU; accertarsi che il materiale sia ripulito da materiali di classe diversa; stoccarlo in appositi contenitori per evitarne la dispersione in ambiente.

Norme di sicurezza per gli interventi di dismissione: ...

[1.3] Gestioni emergenze

Danni possibili:

In caso di incendio la struttura se non progettata per garantire comunque la stabilità potrebbe risultare non sicura per la diminuzione delle caratteristiche meccaniche di base.

Modalità di intervento:

Dopo un incendio eseguire un attento controllo della struttura.

2-Prestazioni e anomalie

[2.1] Prestazioni

- **Classe di requisito:** Estetici

Descrizione:

Capacità del materiale o del componente di mantenere inalterato l'aspetto esteriore.

Livello minimo di prestazioni:

Garantire uniformità delle eventuali modificazioni dell'aspetto, senza compromettere requisiti funzionali.

Norme: ...

- **Classe di requisito:** Funzionalità

Descrizione:

La capacità del materiale o del componente di garantire il funzionamento e l'efficienza previsti in fase di progetto.

Livello minimo di prestazioni:

Stabilito in funzione del materiale o dell'impianto, dalle norme UNI riportate sul capitolato speciale d'appalto.

Norme:

D.M. 14 gennaio 2008

EN 14080:2005 Strutture di legno -Legno lamellare incollato -

CIRCOLARE 2 febbraio 2009, n. 617 - Istruzioni per l'applicazione delle 'Nuove norme tecniche per le costruzioni - EN 1995-1-1: 2004 - Eurocode 5: Design of timber structures.

- **Classe di requisito:** Resistenza meccanica

Descrizione:

Capacità del materiale di rimanere integro e non mostrare deformazioni rilevanti sotto l'azione di sollecitazioni superiori a quelle di progetto.

Livello minimo di prestazioni:

Stabilito in funzione del materiale dalle norme UNI o da prescrizioni normative riportate sul capitolato speciale d'appalto.

Norme:

D.M. 14 gennaio 2008

EN 1995-1-1: 2004 - Eurocode 5: Design of timber structures.

CIRCOLARE 2 febbraio 2009, n. 617 - Istruzioni per l'applicazione delle 'Nuove norme tecniche per le costruzioni

[2.2] Anomalie riscontrabili

- **Descrizione:** Corrosione
Guasti, alterazioni ed irregolarità visibili:
Degradazione che implica l'evolversi di un processo chimico sugli elementi di giunzione
Effetto ed inconvenienti:
Formazione di striature di ruggine, con successiva possibile macchiatura del profilato per colature, aspetto degradato.
Cause possibili:
Fattori esterni (ambientali o climatici), incompatibilità dei materiali e dei componenti, mancata/carente/cattiva manutenzione, cause accidentali.
Criterio di intervento:
Rimozione della ruggine con energica spazzolatura e protezione con idoneo prodotto passivante.
- **Descrizione:** Danneggiamento 1
Guasti, alterazioni ed irregolarità visibili:
Diminuzione più o meno grave ed evidente di efficienza e di consistenza dello strato di protezione superficiale.
Effetto ed inconvenienti:
Presenza di lesioni, aspetto degradato.
Cause possibili:
Cause accidentali, atti di vandalismo.
Criterio di intervento:
Ripristino dello strato di protezione.
- **Descrizione:** Deformazione
Guasti, alterazioni ed irregolarità visibili:
Alterazione duratura dell'aspetto e della configurazione, misurabile dalla variazione delle distanze tra i suoi punti.
Effetto ed inconvenienti:
Inflessione visibile, rigonfiamenti, distacchi, lesioni.
Cause possibili:
Presenza di carichi superiori a quelli di calcolo, cedimenti di fondazione.
Criterio di intervento:
Rimozione di carichi e/o ripristino strutturale.
- **Descrizione:** Deposito superficiale
Guasti, alterazioni ed irregolarità visibili:
Accumulo di materiali estranei di varia natura, generalmente con scarsa coerenza e aderenza al materiale sottostante.
Effetto ed inconvenienti:
Presenza di polvere, terra e sporco più o meno resistente sulla parete, mancata garanzia di igiene ed asetticità, aspetto degradato.
Cause possibili:
Trascinamento di polvere e residui organici dovuto: agli agenti atmosferici, alle normali abitudini comportamentali dell'utenza, deiezioni animali, inquinamento atmosferico, assenza di elementi di protezione alla pioggia, vento, ecc.
Criterio di intervento:
Pulizia.

3-Controlli e manutenzione

[3.1] Controlli

- **Dati generali**
Descrizione: Generale
Modalità di ispezione:

Controllo del serraggio degli elementi di collegamento, in strutture bullonate.

Tempistica

Frequenza: 5 anni

Periodo consigliato:...

Nota per il controllo:...

Esecutore: Personale specializzato (Operaio specializzato)

Prestazioni da verificare

Funzionalità (Danneggiamento 1, Corrosione)

Resistenza meccanica (Rottura, Dissesti, Lesioni, Danneggiamento, Distacchi di terreno)

- **Dati generali**

Descrizione: Visiva sull'elemento tecnico

Modalità di ispezione:

Controllare l'assenza di graffi e danneggiamenti dello strato di protezione superficiale nonché di deformazioni eccessive o un grado di arrugginimento superiore all'1% della superficie.

Tempistica

Frequenza: 12 mesi

Periodo consigliato:...

Nota per il controllo:

In caso di riscontro di un grado di arrugginimento superiore all'1% prevedere la verniciatura

Esecutore: Utente

Prestazioni da verificare

Estetici (Danneggiamento 1, Deposito superficiale)

Resistenza meccanica (Danneggiamento 1, Corrosione, Deformazione)

[3.2] Manutenzione

- **Descrizione:** Pulizia

Modalità di esecuzione:

Asportazione di polvere sugli elementi in legno lamellare, eseguita attraverso lavaggio a fondo con acqua e detergenti neutri (al fine di non asportare la finitura superficiale per corrosione del materiale).

Tempistica

Frequenza: 24 mesi

Periodo consigliato: ...

Nota per la manutenzione: ...

Esecutore: Utente

Avvertenze:

Sono assolutamente da evitare prodotti detergenti a base di cloro, come ad esempio la candeggina o prodotti analoghi normalmente in commercio, poiché possono produrre seri effetti di corrosione se non abbondantemente, rapidamente ed opportunamente risciacquati.

Il contatto o solo i vapori emanati da prodotti acidi (l'acido muriatico/cloridrico) o alcalini (l'ipoclorito di sodio/candeggina/varechina) o ammoniaci, utilizzati direttamente o contenuti nei comuni detersivi, per la pulizia e la igienizzazione di pavimenti, piastrelle e superfici lavabili, possono avere un effetto ossidante/corrosivo sull'acciaio inox.

- **Descrizione:** Sostituzione

Modalità di esecuzione:

Rinnovo parziale o totale dell'elemento per il quale si è rilevata eccessiva deformazione o i danneggiamento

Tempistica

Frequenza: quando occorre

Periodo consigliato: ...

Nota per la manutenzione: ...

Esecutore: Personale specializzato (Impresa specializzata)

Disturbi:

Possibili interruzioni traffico veicolare e pedonale.

- **Descrizione:** Verniciatura

Modalità di esecuzione:

Asportazione di incrostazioni e sporco superficiale con adeguata spazzolatura del paramento superficiale; riverniciatura degli elementi con adeguato impregnante

Tempistica

Frequenza: 10 anni

Periodo consigliato: ...

Nota per la manutenzione: ...

Esecutore: Personale specializzato (Operaio specializzato)

Il sottoscritto arch. Fulvio Bachiorrini, in qualità di progettista degli interventi individuati nella presente relazione e negli allegati elaborari grafici,

dichiara

in merito alle calcolazioni eseguite,

che tutti gli elementi costruttivi del progetto sono stati positivamente verificati e progettati, in applicazione alle metodologie e prescrizioni di cui alle NTC 2008 (DM Infrastrutture 14 gennaio 2008 e ss.mm.ii., Circolare 2 febbraio 2009 n. 617/C.S.LL.PP. e ss.mm.ii.).

Saluzzo,

arch. Fulvio Bachiorrini

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