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EVALUATION OF NEUTRON DATA FOR
 ^{248}Cm AND ^{249}Cm

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Evaluation of Neutron Nuclear Data for ^{248}Cm and ^{249}Cm

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(Received May 31, 1984)

Neutron nuclear data of ^{248}Cm and ^{249}Cm have been evaluated.

Evaluated quantities are the total, elastic and inelastic scattering, fission, capture, $(n,2n)$, $(n,3n)$ and $(n,4n)$ reaction cross sections, the resolved and unresolved resonance parameters, the angular and energy distributions of the emitted neutrons, and the average number of neutrons emitted per fission. The fission cross section of ^{248}Cm was evaluated mainly on the basis of measured data and that of ^{249}Cm was estimated from the systematic trends. The other cross sections were calculated with the optical and statistical models because of scarce measured data.

Keywords: Curium-248, Curium-249, Evaluation, Resonance Parameters, Fission, Optical Model, Statistical Model, Systematics

This work was performed under contracts between Power Reactor and Nuclear Fuel Development Corporation and Japan Atomic Energy Research Institute.

^{248}Cm と ^{249}Cm の中性子核データの評価

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(1984年5月31日受理)

^{248}Cm と ^{249}Cm の中性子核データの評価を行った。評価した物理量は、全断面積、弾性散乱と非弾性散乱断面積、核分裂断面積、中性子捕獲断面積、(n, 2n), (n, 3n), (n, 4n)反応断面積、分離および非分離共鳴パラメータ、放出中性子の角分布およびエネルギー分布データ、そして核分裂あたり放出される平均の中性子数である。 ^{248}Cm の核分裂断面積は、実験データを基にして評価し、また ^{249}Cm の核分裂断面積は系統性から推定した。その他の断面積は、測定データがないため、光学模型と統計模型を使って計算した。

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1. Introduction

Neutron nuclear data of Am and Cm isotopes are required to analyze the down-stream problems of fuel cycle. JENDL-2 contains the data of $^{241-243}\text{Am}$ and $^{242-245}\text{Cm}$. In JENDL-3, we will supply the data of higher Cm and Bk isotopes in order to analyze the complete production and decay chain up to ^{252}Cf .

According to this program, the data of ^{246}Cm and ^{247}Cm were already evaluated. In the fiscal year of 1983, the data of ^{248}Cm and ^{249}Cm have been evaluated under contracts with Power Reactor and Nuclear Fuel Development Corporation. The evaluated quantities are the total, elastic and inelastic scattering, fission, capture, $(n,2n)$, $(n,3n)$ and $(n,4n)$ reaction cross sections, the resolved and unresolved resonance parameters, the angular and energy distributions of the emitted neutrons, and the average number of neutrons per fission.

The method and results of the evaluation are described in Chapters 2 and 3 for ^{248}Cm and ^{249}Cm , respectively. As ^{249}Cm is a radioactive nuclide with a short half-life (1.07 hr), the experimental data are very scarce. Hence the evaluation was made mainly on the basis of the systematic trends among neighboring nuclides. The present results are compared with the available experimental data and with the ENDF/B-V and ENDL-82 data.

2. Curium-248

2.1 Thermal Cross Sections

The measured thermal capture and fission cross sections¹⁻⁷⁾ are compared in Table 1. Two measured values of the fission cross section agree well with each other. The average value of 0.37 barns was adopted in the present work. On the other hand, the measured data of the

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capture cross section are discrepant. Abandoning the extremely large value by Gavrilov⁷⁾ and the oldest value by Chetham-Strode¹⁾, we adopted the value of 2.57 barns.

2.2 Resonance Parameters

2.2.1 Resolved Resonance Parameters

The resonance parameters reported by experimenters have been collected and stored in REPSTOR system⁸⁾. They are shown in Table 2 together with the presently adopted parameters. Benjamin et al.⁵⁾ performed the transmission measurement with ORELA in the energy region from 0.5 eV to 3 keV, and deduced the neutron widths of 47 resonances from 7.247 eV to 2984 eV and the radiative widths of three low lying resonances. The parameters of resonances below 100 eV were also measured by Belanova et al.⁹⁾ with the transmission technique. On the other hand, Moore and Keyworth¹⁰⁾ measured the fission cross section above 20 eV by using a nuclear explosion as a neutron source, and obtained the fission widths for three resonances at 26.8, 76.1 and 98.8 eV. Recently Stopa et al.¹¹⁾ gave the fission area for the 7.247 eV resonance.

In the present evaluation, the resonance energies, neutron and radiative widths by Benjamin et al.⁵⁾ were adopted. The average radiative width of 26 meV recommended by Benjamin et al. was also taken for all resonances whose radiative width was unknown. The fission widths were taken from the measurement by Moore and Keyworth¹⁰⁾ for three resonances mentioned above, and the average value of 1.3 meV was adopted for the others. Finally, in order to reproduce the 2200-m/s cross sections of 2.57 barns for the capture and of 0.37 barns for the fission cross sections, the parameters of the first resonance at 7.247

eV were slightly adjusted. As to the fission cross section, however, the calculated value is much smaller than the measured one even after the adjustment. Hence the background cross section was applied for the fission cross section by assuming the $1/v$ form.

The effective scattering radius of 9.1 fm was deduced from the potential scattering cross section of 10.4 barns assumed by Benjamin et al. The multi-level Breit-Wigner formula was adopted. The upper bound of the resolved resonance region was determined to be 1.5 keV, because some resonances seem to be missed above 1.5 keV in the measurement by Benjamin et al.

2.2.2 Unresolved Resonance Parameters

The fission cross sections of Moore and Keyworth¹⁰⁾ and Stopa et al.¹¹⁾ are the only available experimental data in the unresolved resonance region between 1.5 keV and 30 keV. In the present work, the fission cross section in this energy range was evaluated mainly on the basis of the measured data of Stopa et al.¹¹⁾

The fission widths were searched for so as to reproduce the evaluated fission cross section, by assuming the neutron strength functions and the effective scattering radius obtained with the optical model calculation which will be described later. The radiation width of 26 meV and the observable level spacing of 40 eV were taken from the resolved resonances.

The unresolved resonance parameters thus obtained are given in Table 3 as well as the calculated cross sections.

2.2.3 Resonance Integrals

The measured resonance integral data are tabulated in Table 4 with

the values calculated from the presently evaluated resonance parameters and the smooth cross sections. The calculated capture integral of 257 barns agrees with the measured data within their uncertainty. On the other hand, the calculated fission integral of 17.5 barns is a little larger than the measured ones. For such a nuclide with subthreshold fission as ^{248}Cm , considerable amount of contribution to the fission integral comes from MeV region where the assumed $1/E$ spectrum cannot represent the experimental spectrum (fission spectrum). Hence the comparison between the measured and calculated fission integrals has little meaning.

2.3 Cross Sections above Resonance Region

2.3.1 Fission Cross Section

Three measured data are available for the fission cross section in this energy range:

Moore and Keyworth¹⁰⁾ (1971): 20 eV ~ 2.8 MeV

Fomushkin et al.¹²⁾ (1980): 0.3 MeV ~ 5.5 MeV

Stopa et al.¹¹⁾ (1982): 0.1 eV ~ 80 keV.

The present evaluation was made mainly on the basis of the data of Stopa et al. and Fomushkin et al. up to 5.5 MeV, and the evaluated curve was drawn by assuming the $(n,n'f)$ and $(n,2nf)$ cross section above 6 MeV. The evaluated fission cross section is shown in Fig. 1 with the measured data as well as the other evaluated data.

2.3.2 Other Cross Sections

No measured data have so far been reported for the other cross sections. Hence the evaluation was made by the theoretical calculation

based on the optical, statistical and evaporation models.

We adopted the same optical potential parameters as used in the evaluation of ^{241}Am , ^{242m}Am , ^{242g}Am , ^{243}Am , ^{242}Cm and ^{243}Cm for JENDL-2 and of ^{246}Cm and ^{247}Cm for JENDL-3. These potential parameters were obtained by Igarasi and Nakagawa¹³⁾ so as to reproduce the total cross section of ^{241}Am measured by Phillips and Howe¹⁴⁾. The parameter set is given in Table 5. The level density parameters were taken from the recommendation by Gilbert and Cameron¹⁵⁾ and are given in Table 6.

The $(n,2n)$, $(n,3n)$ and $(n,4n)$ reaction cross sections were calculated with Pearlstein's method¹⁶⁾ based on the evaporation model. The neutron emission cross section approximated to the difference between the compound nucleus formation cross section and the fission cross section, because the charged particle emission and the compound elastic scattering cross sections are negligibly small.

Taking account of the $(n,2n)$, $(n,3n)$, $(n,4n)$ and fission cross sections as the competing processes, the capture, elastic and inelastic scattering cross sections were calculated with the statistical model code CASTHY¹⁷⁾. The γ -ray strength function was calculated to be 6.5×10^{-4} from the radiation width and the mean level spacing in the resolved resonance region. Eight discrete levels were taken into account up to 1094 keV and levels above 1126 keV were assumed to be overlapping. The level scheme of the discrete levels was taken from Table of Isotope, 7th edition¹⁸⁾ and is shown in Table 7.

The Q-values of $(n,2n)$, $(n,3n)$ and $(n,4n)$ reactions were obtained from the compilation of Wapstra and Bos¹⁹⁾ and are given in Table 8. The calculated cross sections are shown in Figs. 2-4 with the other evaluated data.

2.4 Other Quantities

2.4.1 Average Number of Neutrons Emitted per Fission

There is no measurement on the $\bar{\nu}$ -value for the neutron-induced fission of ^{248}Cm . Hence the semi-empirical formula by Howerton²⁰⁾ was adopted;

$$\begin{aligned}\bar{\nu}(Z, A_t, E_n) &= 2.33 + 0.06 [2 - (-1)^{A_t+1-Z} - (-1)^Z] \\ &\quad + 0.15 (Z-92) + 0.02(A_t-235) \\ &\quad + [0.130 + 0.006 (A_t-235)] \times [E_n - E_T(Z, A_t)], \\ E_T(Z, A_t) &= 18.6 - 0.36 Z^2/(A_t+1) + 0.2[2 - (-1)^{A_t+1-Z} - (-1)^Z] - B_n,\end{aligned}$$

where E_T represents the fission threshold energy, E_n is the incident neutron energy, A_t the mass number of target nucleus, Z the atomic number and B_n the neutron separation energy from compound nucleus.

Applying $A_t = 248$, $B_n = 4.7127$ MeV, we obtained

$$E_T = 0.97 \text{ MeV}$$

$$\bar{\nu} = 3.11 + 0.208 E_n.$$

As no measurement has been reported on the number of delayed neutrons, we estimated $\bar{\nu}_d$ from the systematics proposed by Tuttle²¹⁾:

$$\bar{\nu}_d = \exp[13.81 + 0.1754(A_c-3Z)(A_c/Z)],$$

where A_c is the mass number of the compound nucleus. We also assumed that the $(n, n'f)$ process was dominant after its channel opened ($E_n > 6 \sim 8$ MeV). Under these assumptions, the presently evaluated value is

$$\bar{\nu}_d = 0.0196 \quad \text{for } E_n \leq 6 \text{ MeV},$$

$$0.0134 \quad \text{for } E_n \geq 8 \text{ MeV}.$$

Both values are linearly connected between 6 and 8 MeV.

As to the decay constants and fraction of delayed neutrons, the values for ^{242}Pu were assumed because of analogous values of $(A_c - 3Z)$ (A_c/Z), and the evaluated data by Tuttle²²⁾ were adopted.

2.4.2 Angular Distributions of Emitted Neutrons

The angular distributions for the elastic scattering and the inelastic scattering to discrete levels were calculated with the optical model. The isotropic scattering in the laboratory system was assumed for the inelastic scattering to continuum levels, $(n,2n)$, $(n,3n)$, $(n,4n)$ and fission reactions.

2.4.3 Energy Distributions of Emitted Neutrons

The simple evaporation spectrum was assumed for the inelastically scattered neutrons which leave the residual nucleus in continuum excited states (MT = 91). The nuclear temperature (θ) was determined as

$$\theta = T_n \quad E_n < E_x$$

$$\theta = \frac{1 + \sqrt{1 - 4a(E_n - \Delta)}}{2a} \quad E_n > E_x$$

where E_n is the incident neutron energy, and a and Δ are the level density parameter and the pairing energy of the residual nucleus. T_n is the nuclear temperature in the constant temperature model and E_x is the joining energy between the constant temperature and Fermi gas models.

As to the $(n,2n)$, $(n,3n)$ and $(n,4n)$ reactions, we assumed the successive evaporation model. For the $(n,2n)$ process, the first neutron evaporates leaving the residual nucleus in an excited state higher than

the neutron separation energy, and then the second neutron evaporates from the excited state. In the calculation of the temperature for the second neutron, we assumed that the second neutron evaporated from an excited state corresponding the average energy of the first neutron. In the ENDF/B format, the temperature of each neutron is stored independently in each subsection.

2.4.4 Fission Spectrum

The Maxwellian spectrum was adopted in the present work. As no measured data exist for ^{248}Cm , the temperature was determined from the systematics of the average neutron energy on A and Z obtained by Smith et al.²³⁾. The obtained temperature is 1.38 MeV, by taking a reference ^{252}Cf average fission neutron energy of 2.13 MeV as recommended by Grundl and Eisenhauer²⁴⁾.

2.5 Discussion

The presently evaluated cross sections are shown in Fig. 5. The present evaluation is much based on the theoretical calculation, since the experimental data are scarce except for the fission and thermal cross sections.

The present resonance parameters fail to reproduce the thermal fission cross section, and the background correction was applied. The resonance parameters of the low-lying levels should be measured more carefully.

3. Curium-249

3.1 Thermal Cross Sections

The capture cross section measured by Diamond et al.²⁵⁾ in a

the neutron separation energy, and then the second neutron evaporates from the excited state. In the calculation of the temperature for the second neutron, we assumed that the second neutron evaporated from an excited state corresponding the average energy of the first neutron. In the ENDF/B format, the temperature of each neutron is stored independently in each subsection.

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3. Curium-249

3.1 Thermal Cross Sections

The capture cross section measured by Diamond et al.²⁵⁾ in a

Maxwellian Spectrum is the only available experimental datum for this nuclide. We took this value in the present work. The fission cross section was estimated from the ratio calculated from the unresolved resonance parameters. The elastic scattering cross section was calculated with the optical model. The presently adopted 2200m/s cross sections are

Total	: 13.22 barns,
Elastic scattering	: 10.8 barns,
Capture	: 1.6 barns,
Fission	: 0.82 barns.

The $1/v$ shape was assumed for the fission and capture cross sections up to 4.15 eV which corresponds to a half of the average level spacing of s-wave resonances ($D_{obs}/2$). This is based on the following argument. The statistical model calculation gives expectation value of the cross section averaged over resonances. Therefore, when no cross section data and no resonance parameters are available at all, it will be the only way of estimating the data to apply the statistical model down to the thermal energy. Now suppose such a case where only thermal capture cross section is known as ^{249}Cm , for which the thermal cross section value is much smaller than that calculated by the statistical model. Therefore, we may assume that no resonance exists near the thermal energy and the cross section will behave as $1/v$ below the first resonance. This implies that the $1/v$ cross section must be connected with the statistical model calculation at an appropriate energy. As we do not know the relation between the thermal energy and the first resonance energy, we must estimate the connecting energy statistically so that the connection should be made at the energy point where the

probability that the first resonance level appears below this energy is one half. Assuming the random relation between the thermal and the first resonance energy, we took $D_{\text{obs}}/2$ approximately as the connecting energy.

3.2 Resonance Parameters

3.2.1 Unresolved Resonance Parameters

No resolved resonance parameters have so far been measured. The unresolved resonance parameters are given in the energy range between 4.15 eV and 30 keV.

The neutron strength functions and the effective scattering radius were calculated from the optical model, which will be described later. The average level spacing (D_{obs}) of 8.3 eV was deduced from the level density parameters given in Table 6. The radiation width of 40 meV was estimated from the systematic trends of Cm isotopes.

The fission widths were estimated from the channel theory of fission^{26,27)}. The energies of the transition states were expected to be analogous to those of ^{239}Pu which has the same spin-parity ($1/2^+$).

Considering the lower fission cross section and the lower neutron separation energy than those of ^{239}Pu , we assumed the higher fission barrier for ^{249}Cm than for ^{239}Pu . Finally we assumed the following:

- 1) The 0^+ state has one fully open channel (ground state).
- 2) The 1^+ state has only one partially open channel (mass asymmetry vibration + bending).
- 3) The 2^+ state has one open channel (ground state) and one partially open channel (gamma vibration)
- 4) The 3^+ state has one partially open channel (gamma vibration).
- 5) The 0^- state has no open channel.

6) The 1^- state has one open channel (mass asymmetry vibration) and one partially open channel(bending).

7) The 2^- state has one partially open channel (bending).

The contributions of the partially open channel were searched for so as to reproduce the evaluated fission cross section at 30 keV.

The unresolved resonance parameters thus evaluated are shown in Table 9 with the calculated cross sections. At the lowest energy of 4.15 eV, the capture to fission ratio is 1.96, and this ratio was used to estimate the thermal fission cross section.

3.2.2 Resonance Integrals

The resonance integrals calculated from the present evaluated data are

Capture : 215 barns

Fission : 139 barns.

3.3 Cross Sections above Resonance Region

3.3.1 Fission Cross Section

As no measured data exist for ^{249}Cm , the fission cross section was predicted from the semi-empirical formula by Behrens and Howerton²⁸⁾.

According to them, the fission cross section ratio $\sigma_R(Z,A)$ of target nucleus (A,Z,N) to ^{235}U in the 3- to 5-MeV energy range is expressed as

$$\sigma_R(Z,A) = \{A - B(N)\}/m(N),$$

where

$$B(N) = \sum_{i=0}^3 \beta_i N^i$$

and

$$m(N) = \sum_{i=0}^3 \alpha_i N^i.$$

By fitting to the data of 43 isotopes, they give

$$\begin{aligned}\alpha_0 &= -1.21315882 \times 10^4, \\ \alpha_1 &= 2.51795703 \times 10^2, \\ \alpha_2 &= -1.74231696 \times 10^0, \\ \alpha_3 &= 4.02000000 \times 10^{-3}, \\ \beta_0 &= 1.96175369 \times 10^4, \\ \beta_1 &= -4.06932552 \times 10^2, \\ \beta_2 &= 2.83841428 \times 10^0, \\ \text{and } \beta_3 &= -6.57812500 \times 10^{-3}.\end{aligned}$$

By using this formula, we obtained

$$\sigma_f(^{249}\text{Cm}) = 0.95 \times \sigma_f(^{247}\text{Cm}).$$

We applied this relation to the energy range from 30 keV to 5 MeV.

Above 5 MeV the cross section was modified by taking account of the differences of the threshold energies for ($n, n'f$), ($n, 2nf$) and ($n, 3nf$) processes.

3.3.2 Other Cross Sections

The evaluation of all the other cross sections was made with the optical, statistical and evaporation models.

The same optical potential parameters and the same calculation procedure were used as in the case of ^{246}Cm . The γ -ray strength function of 4.8×10^{-3} was determined from the average radiation width and the mean level spacing in the unresolved resonance region. The level scheme and the Q-values of ($n, 2n$), ($n, 3n$) and ($n, 4n$) reactions are shown in Tables 10 and 11, respectively.

3.4 Other Quantities

3.4.1 Average Number of Neutrons Emitted per Fission

The \bar{v} -value and its energy dependence were estimated from the semi-empirical formula by Howerton²⁰⁾. Applying $A_t = 249$, $B_n = 5.8337$, we have

$$\bar{v} = 3.32 + 0.214 E_n.$$

The average number of delayed neutrons was estimated with the same method as used for ^{248}Cm . The result is

$$\begin{aligned}\bar{v}_d &= 0.0288 \quad \text{for } E_n \leq 6 \text{ MeV}, \\ &= 0.0196 \quad \text{for } E_n \geq 8 \text{ MeV}.\end{aligned}$$

As to the decay constants and the fraction of delayed neutrons, the values for ^{238}U were adopted, taking account of analogous $(A_c - 3Z)(A_c/Z)$ values.

3.4.2 Angular and Energy Distributions of Emitted Neutrons

The same procedure as used for ^{248}Cm was adopted.

3.4.3 Fission Spectrum

The same procedure as used for ^{248}Cm was adopted. The obtained temperature is 1.37 MeV.

3.5 Discussion

The presently evaluated cross sections are shown in Fig. 6.

As no measured data exist except for the thermal capture cross section, the present evaluation was made by considering the systematic trends among neighboring nuclides. The systematic trends are considerably clear for Cm isotopes. Hence we believe that the present evaluated data are reliable enough to analyze the down-stream problems considering its short half-life.

4. Concluding Remarks

Evaluation of neutron nuclear data was performed on ^{248}Cm and ^{249}Cm . The evaluated data were stored in the ENDF/B-V format and will be contained in JENDL-3.

As to ^{248}Cm , the thermal and resonance cross sections were evaluated on the basis of measured data. In the higher energy region, however, the evaluation was made on the basis of the theoretical calculation except for the fission cross section, because no experimental data are available for the other cross sections. Hence further experimental works are much required particularly on the capture cross section above keV region and the total cross section in MeV region. The measured capture cross section at one energy point of some tens of keV must improve the situation very much.

As to ^{249}Cm , the present evaluation might be sufficient, considering its short half-life.

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4. Concluding Remarks

Evaluation of neutron nuclear data was performed on ^{248}Cm and ^{249}Cm . The evaluated data were stored in the ENDF/B-V format and will be contained in JENDL-3.

As to ^{248}Cm , the thermal and resonance cross sections were evaluated on the basis of measured data. In the higher energy region, however, the evaluation was made on the basis of the theoretical calculation except for the fission cross section, because no experimental data are available for the other cross sections. Hence further experimental works are much required particularly on the capture cross section above keV region and the total cross section in MeV region. The measured capture cross section at one energy point of some tens of keV must improve the situation very much.

As to ^{249}Cm , the present evaluation might be sufficient, considering its short half-life.

Acknowledgment

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Table 1 Thermal cross sections of ^{248}Cm

	(barns)	
	Capture	Fission
Experiments		
65 Chetham-Strode ¹⁾		5.5
71 Thompson ²⁾	3	\pm 1
72 Benjamin ³⁾		0.34 ± 0.07
73 Druschel ⁴⁾	2.63	
74 Benjamin ⁵⁾	2.51 ± 0.26	
75 Zhuravlev ⁶⁾		0.39 ± 0.07
78 Gavrilov ⁷⁾	10.7 ± 1.5	
Average	4.86	0.37 ± 0.03
Presently adopted	2.57	0.37

Table 2 Resonance Parameters of ^{248}Cm

ENERGY (EV)	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	R. N-WIDTH(0) (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS *	REFERENCE **
7.247 \pm 0.005				0.65 \pm 0.02	23.3 \pm 1.0	
7.26 \pm 0.02	36 \pm 3	1.90 \pm 0.04				72BENJAMIN 75BELANOVA 82STOPA PRESENT
7.25	26.4865	1.8865	0.70077	23.3	GFS = 2.2 \pm 0.3 GF = 1.3	
7.247						
26.84		25 \pm 3				71MOORE
26.90 \pm 0.02			3.71 \pm 0.17	32.0 \pm 3.0	GF = 0.08 \pm 0.01	72BENJAMIN 75BELANOVA PRESENT
26.88 \pm 0.08	37 \pm 3	21.7 \pm 0.7				
26.90	51.28	19.2	3.71	32.0	GF = 0.08	
35.01 \pm 0.03			1.95 \pm 0.08	30.2 \pm 2.7		72BENJAMIN 75BELANOVA PRESENT
35.00 \pm 0.14	38 \pm 5	9.5 \pm 2				
35.01	43.0	11.5	1.95	30.2	GF = 1.3	
76.08		LARGE				72BENJAMIN 75BELANOVA PRESENT
76.10 \pm 0.05			10.9 \pm 0.5	(37)	GF = 3.3 \pm 0.4	
75.6 \pm 0.3		102.5 \pm 13.6		(26)		
76.10	124.4	95.1	10.9	26	GF = 3.3	
84.8 \pm 0.3						75BELANOVA
98.79		LARGE				71MOORE
98.95 \pm 0.07			14.8 \pm 0.6	(37)	GF = 0.47 \pm 0.04	72BENJAMIN 75BELANOVA PRESENT
98.6 \pm 0.3		169 \pm 18		(26)		
98.95	173.47	147.0	14.8	26	GF = 0.47	
140.0						71MOORE
140.3 \pm 0.1			0.127 \pm 0.018	(26)	GFS = 3.76 \pm 0.25	72BENJAMIN PRESENT
140.3	28.8	1.50	0.127	26	GF = 1.3	
186.0						71MOORE
186.4 \pm 0.1			0.306 \pm 0.036	(26)	GFS = 4.52 \pm 0.32	72BENJAMIN PRESENT
186.4	31.48	4.18	0.306	26	GF = 1.3	
232.5					GFS = 1.46 \pm 0.70	71MOORE
237.0						71MOORE
237.9 \pm 0.2			1.05 \pm 0.10	(26)	GFS = 5.60 \pm 0.70	72BENJAMIN PRESENT
237.9	43.5	16.2	1.05	26	GF = 1.3	
258.7 \pm 0.2			3.84 \pm 0.32	(26)		72BENJAMIN PRESENT
258.7	89.1	61.8	3.84	26	GF = 1.3	
321.8 \pm 0.2			1.45 \pm 0.15	(26)		72BENJAMIN PRESENT
321.8	53.3	26.0	1.45	26	GF = 1.3	
380.6 \pm 0.3			4.7 \pm 0.5	(26)		72BENJAMIN PRESENT
380.6	119.3	92.0	4.7	26	GF = 1.3	
415.2						71MOORE
415.7 \pm 0.3			2.41 \pm 0.23	(26)	GFS = 1.78 \pm 0.51	72BENJAMIN PRESENT
415.7	76.4	49.1	2.41	26	GF = 1.3	
457.7 \pm 0.3			3.48 \pm 0.30	(26)		72BENJAMIN PRESENT
457.7	101.8	74.5	3.48	26	GF = 1.3	
484.9 \pm 0.3			0.43 \pm 0.12	(26)		72BENJAMIN PRESENT
484.9	36.8	9.5	0.43	26	GF = 1.3	
541.8 \pm 0.4			16.3 \pm 0.9	(26)		72BENJAMIN PRESENT
541.8	406.3	379.0	16.3	26	GF = 1.3	
605.3 \pm 0.4			3.0 \pm 0.4	(26)		72BENJAMIN PRESENT
605.3	101.3	74.0	3.0	26	GF = 1.3	
647.0 \pm 0.5			4.2 \pm 0.5	(26)		72BENJAMIN PRESENT
647.0	134.3	107.0	4.2	26	GF = 1.3	
688.6 \pm 0.5			1.4 \pm 0.3	(26)		72BENJAMIN PRESENT
688.6	64.3	37.0	1.4	26	GF = 1.3	
694.3 \pm 0.5			7.6 \pm 0.8	(26)		72BENJAMIN PRESENT
694.3	227.3	200.0	7.6	26	GF = 1.3	
721.5 \pm 0.5			3.3 \pm 0.5	(26)		72BENJAMIN PRESENT
721.5	116.3	89.0	3.3	26	GF = 1.3	
769.4 \pm 0.5			2.2 \pm 0.4	(26)		72BENJAMIN PRESENT
769.4	88.3	61.0	2.2	26	GF = 1.3	
865.9 \pm 0.6			16.4 \pm 1.4	(26)		72BENJAMIN PRESENT
865.9	510.3	483.0	16.4	26	GF = 1.3	
887.1 \pm 0.7			3.3 \pm 0.7	(26)		72BENJAMIN PRESENT
887.1	125.3	98.0	3.3	26	GF = 1.3	
958.6 \pm 0.7			3.4 \pm 0.7	(26)		72BENJAMIN PRESENT
958.6	132.3	105.0	3.4	26	GF = 1.3	
994.2 \pm 0.7			3.8 \pm 0.7	(26)		72BENJAMIN PRESENT
994.2	147.3	120.0	3.8	26	GF = 1.3	
1042.0 \pm 0.7			5.8 \pm 1.0	(26)		72BENJAMIN PRESENT
1042.0	214.3	187.0	5.8	26	GF = 1.3	
1103.3 \pm 0.8			6.5 \pm 1.0	(26)		72BENJAMIN PRESENT
1103.3	243.3	216.0	6.5	26	GF = 1.3	
1193.6 \pm 0.9			9.4 \pm 1.3	(26)		72BENJAMIN

ENERGY (EV)	TOTAL WIDTH (MILLI-EV)	NEUTRON WIDTH (MILLI-EV)	R. N-WIDTH(0) (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
1193.6	352.3	325.0	9.4	26	GF = 1.3	PRESENT
1209.7 ± 0.9	62.3	35.0	1.0 ± 0.7 1.0	(26) 26	GF = 1.3	72BENJAMIN PRESENT
1262.0 ± 0.9	293.3	266.0	7.5 ± 1.3 7.5	(26) 26	GF = 1.3	72BENJAMIN PRESENT
1276.6 ± 0.9	202.3	175.0	4.9 ± 1.1 4.9	(26) 26	GF = 1.3	72BENJAMIN PRESENT
1288.1 ± 0.9	81.3	54.0	1.5 ± 0.8 1.5	(26) 26	GF = 1.3	72BENJAMIN PRESENT
1389 ± 1	426.3	399.0	10.7 ± 1.5 10.7	(26) 26	GF = 1.3	72BENJAMIN PRESENT
1505 ± 1	698.3	671.0	17.3 ± 2.0 17.3	(26) 26	GF = 1.3	72BENJAMIN PRESENT
1646 ± 1	157.3	130.0	3.2 ± 1.1 3.2	(26) 26	GF = 1.3	72BENJAMIN PRESENT
1812 ± 1	563.3	536.0	12.6 ± 2.0 12.6	(26) 26	GF = 1.3	72BENJAMIN PRESENT
1910 ± 1	145.3	118.0	2.7 ± 1.4 2.7	(26) 26	GF = 1.3	72BENJAMIN PRESENT
2040 ± 2	221.3	194.0	4.3 ± 1.7 4.3	(26) 26	GF = 1.3	72BENJAMIN PRESENT
2071 ± 2	796.3	769.0	16.9 ± 2.5 16.9	(26) 26	GF = 1.3	72BENJAMIN PRESENT
2138 ± 2	489.3	462.0	10.0 ± 2.2 10.0	(26) 26	GF = 1.3	72BENJAMIN PRESENT
2156 ± 2	180.3	153.0	3.3 ± 1.6 3.3	(26) 26	GF = 1.3	72BENJAMIN PRESENT
2215 ± 2	672.3	645.0	13.7 ± 2.3 13.7	(26) 26	GF = 1.3	72BENJAMIN PRESENT
2234 ± 2	112.3	85.0	1.8 ± 1.5 1.8	(26) 26	GF = 1.3	72BENJAMIN PRESENT
2291 ± 2	352.3	325.0	6.8 ± 2.2 6.8	(26) 26	GF = 1.3	72BENJAMIN PRESENT
2369 ± 2	514.3	487.0	10.0 ± 2.6 10.0	(26) 26	GF = 1.3	72BENJAMIN PRESENT
2391 ± 2	345.3	318.0	6.5 ± 2.4 6.5	(26) 26	GF = 1.3	72BENJAMIN PRESENT
2984 ± 2	1557.3	1530.0	28.0 ± 4.4 28.0	(26) 26	GF = 1.3	72BENJAMIN PRESENT

$$* GF: \Gamma_f \quad GFS: \pi \sigma_0 \Gamma_f / 2$$

** 72BENJAMIN : Ref. 5
 75BELANOVA : Ref. 9
 71MOORE : Ref. 10
 82STOPA : Ref. 11

Table 3 Energy dependence of the unresolved resonance parameters
and the calculated cross sections for ^{248}Cm

The energy dependent fission widths and D_{obs} are given with the calculated total, capture and fission cross sections. The energy independent parameters are listed below:

$$S_0 = 1.2 \times 10^{-4} \quad S_1 = 3.32 \times 10^{-4} \quad S_2 = 0.844 \times 10^{-4}$$

$$R = 8.88 \text{ fm} \quad \Gamma_Y = 26 \text{ meV}$$

E_n (keV)	Γ_f (meV)	D_{obs} (eV)	σ_t (barns)	σ_c (barns)	σ_f (barns)
1.5	1.15	39.9	23.1	1.59	0.069
2	1.25	39.8	21.4	1.37	0.063
3	1.41	39.7	19.5	1.13	0.059
4	1.48	39.7	18.3	0.995	0.054
5	1.64	39.6	17.6	0.903	0.054
6	1.86	39.5	17.0	0.832	0.056
8	2.12	39.3	16.3	0.729	0.056
10	2.28	39.2	15.7	0.654	0.054
15	2.72	38.7	15.0	0.528	0.052
20	2.96	38.3	14.6	0.449	0.049
30	3.35	37.5	14.1	0.353	0.043

Table 4 Resonance integrals of ^{248}Cm

	(barns)	
	Capture	Fission
Experiments		
65 Chetham-Strode ¹⁾	350	
71 Thompson ²⁾	275 ± 75	
72 Benjamin ³⁾		13.2 ± 0.8
73 Druschel ⁴⁾	267	
74 Benjamin ⁵⁾	259 ± 12	
75 Zhuravlev ⁶⁾		13.1 ± 1.5
78 Gavrilov ⁷⁾	250 ± 24	
Average	280	13.2
Present*	257	17.5

* Calculated from the resonance parameters.

Table 5 Optical potential parameters

$V = 43.4 - 0.107 E_n$	(MeV)
$W_s = 6.95 - 0.339 E_n + 0.0531 E_n^2$	(MeV)
$V_{so} = 7.0$	(MeV)
$r_o = r_{so} = 1.282$	(fm)
$r_s = 1.29$	(fm)
$a = a_{so} = 0.60$	(fm)
$b = 0.5$	(fm)

Derivative Wood-Saxon form for the surface imaginary term and no volume term.

Table 6 Level density parameters of Cm-isotopes

Isotope	245	246	247	248	249	250
a (MeV ⁻¹)	26.03	25.98	26.20	26.46	27.85	28.79
$\sigma_M^{1/2}/\sqrt{U}$ (MeV ^{-1/2})	17.74	17.77	17.89	18.03	18.55	18.91
Δ (MeV)	0.72	1.11	0.72	1.623	0.72	1.585
E_x (MeV)	3.83	4.22	3.83	4.73	3.82	4.69
T_n (MeV)	0.415	0.415	0.413	0.411	0.398	0.390

Table 7 Level Scheme of ^{248}Cm

No	Energy (keV)	I^π	No	Energy (keV)	I^π
GS	0	0^+	5	1048	2^+
1	43.40	2^+	6	1050	1^-
2	143.6	4^+	7	1084	0^+
3	297	6^+	8	1094	3^-
4	510	8^+			

Levels above 1126 keV are assumed to be overlapping.

Table 8 Q-values and threshold energies of (n, xn) reaction cross sections for ^{248}Cm

Reaction	Q-value (MeV)	Threshold energy (MeV)
$n, 2n$	- 6.2127	6.2380
$n, 3n$	-11.3704	11.4166
$n, 4n$	-17.8274	17.8999

Table 9 Unresolved resonance parameters and
calculated cross sections for ^{249}Cm

$$\begin{aligned}
 s_0 &= 1.08 \times 10^{-4} & s_1 &= 3.95 \times 10^{-4} & s_2 &= 1.04 \times 10^{-4} \\
 R &= 8.80 \text{ fm} & \Gamma_\gamma &= 40 \text{ meV} & D_{\text{obs}} &= 8.3 \text{ eV} \\
 \Gamma_f^{(0+)} &= 4070 \text{ meV} & \Gamma_f^{(1+)} &= 7.7 \text{ meV} \\
 \Gamma_f^{(2+)} &= 1022 \text{ meV} & \Gamma_f^{(3+)} &= 146 \text{ meV} \\
 \Gamma_f^{(0-)} &= 0 \text{ meV} & \Gamma_f^{(1-)} &= 2000 \text{ meV} \\
 \Gamma_f^{(2-)} &= 4070 \text{ meV}
 \end{aligned}$$

E_n (eV)	σ_t (barns)	σ_c (barns)	σ_f (barns)
4.15	227.2	128.5	65.9
10	149.9	77.7	41.5
100	54.2	18.6	11.9
1000	24.2	3.76	3.50
10000	15.4	0.837	1.91
30000	14.1	0.436	1.95

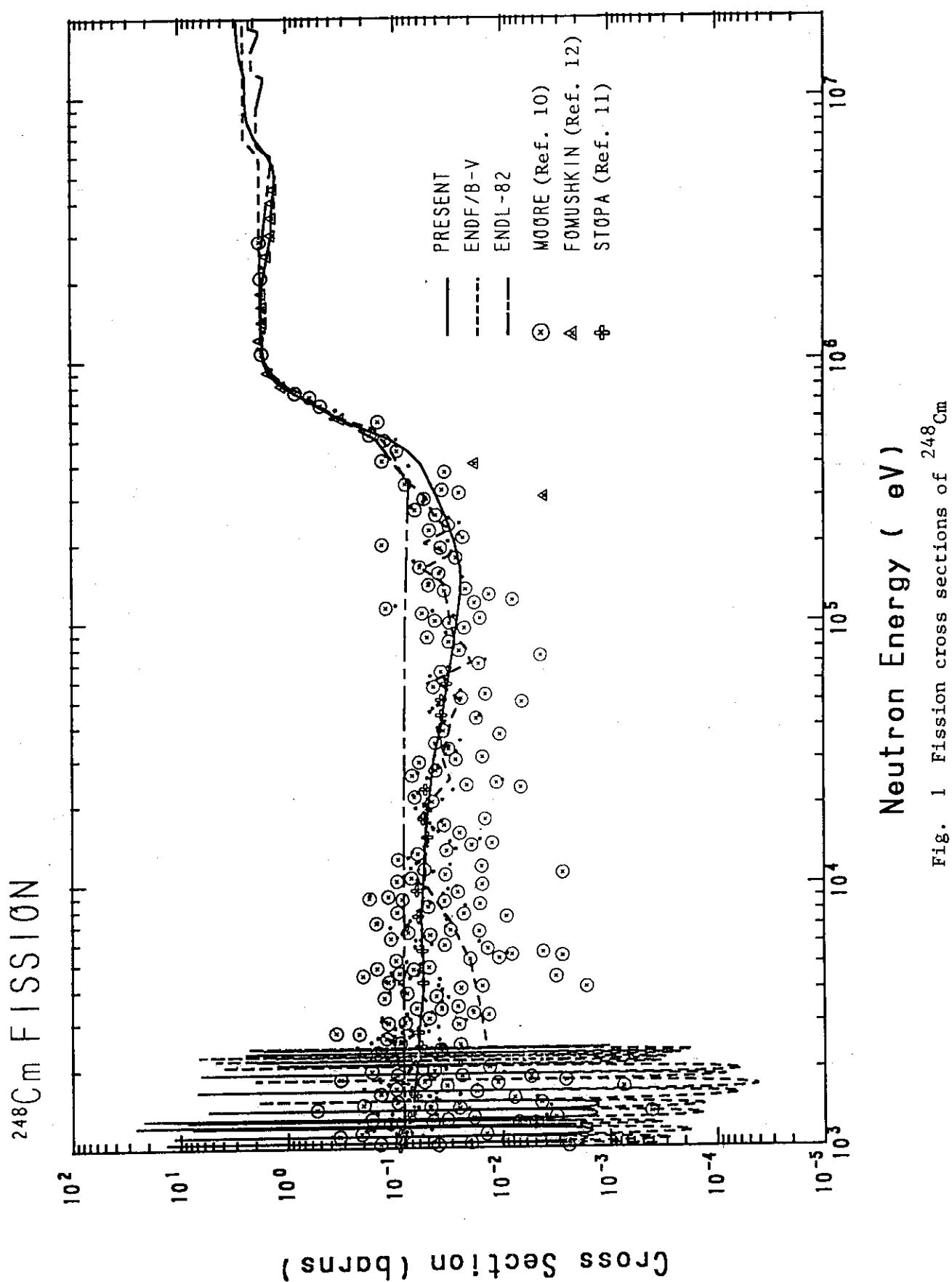
Table 10 Level scheme of ^{249}Cm

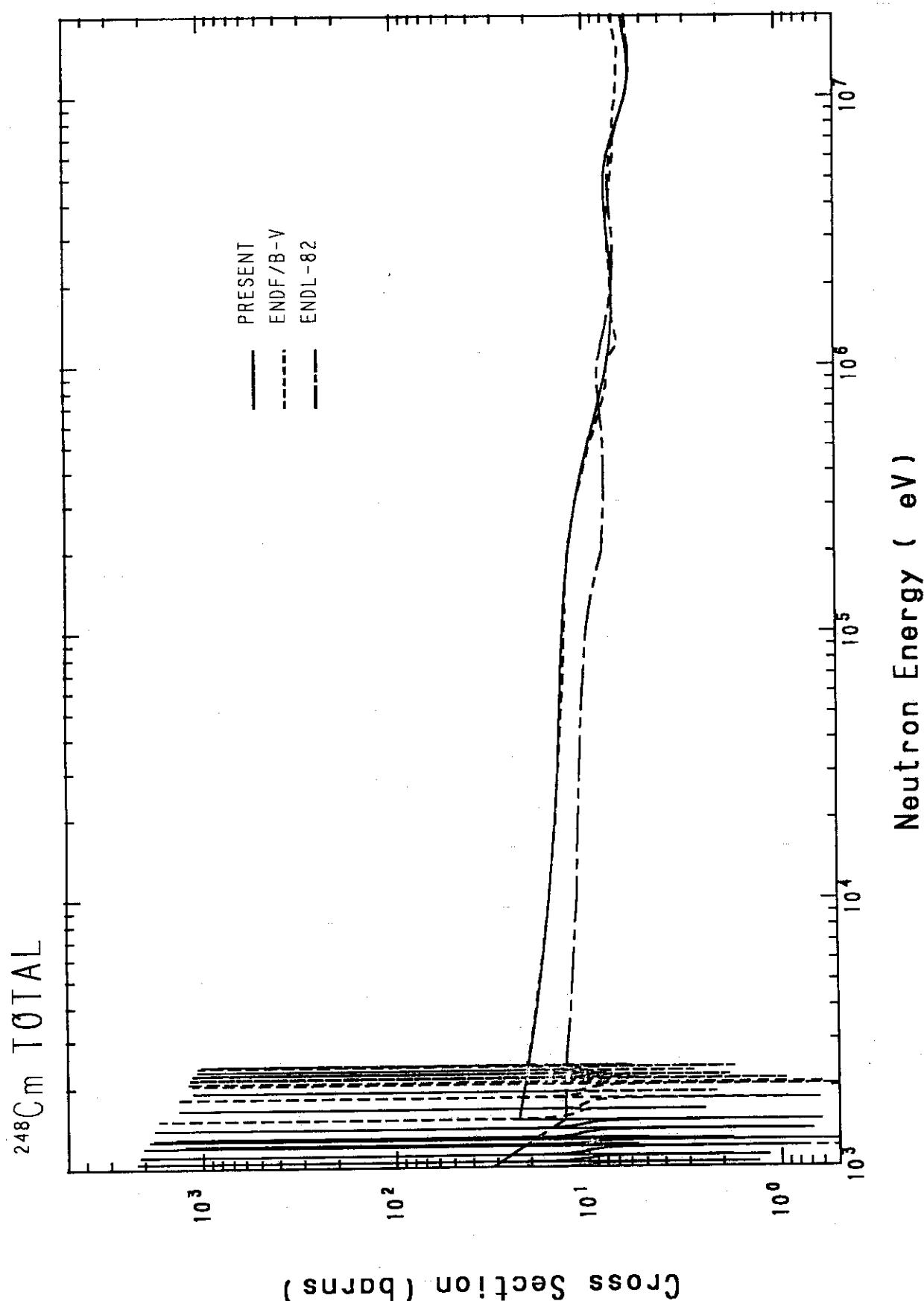
No	Energy (keV)	I^π	No	Energy (keV)	I^π
GS	0	$1/2^+$	4	110	$9/2^+$
1	26.2	$3/2^+$	5	110.1	$7/2^+$
2	42.4	$5/2^+$	6	146	$9/2^+$
3	52.2	$7/2^+$	7	208	$3/2^+$

Levels above 220 keV are assumed to be overlapping.

Table 11 Q-values and threshold energies of (n, xn) reaction cross sections for ^{249}Cm

Reaction	Q-value (MeV)	Threshold energy (MeV)
$n, 2n$	- 4.7127	4.7318
$n, 3n$	-10.9254	10.9696
$n, 4n$	-16.0831	16.1482

Fig. 1 Fission cross sections of ^{248}Cm

Fig. 2. Total cross sections of ^{248}Cm

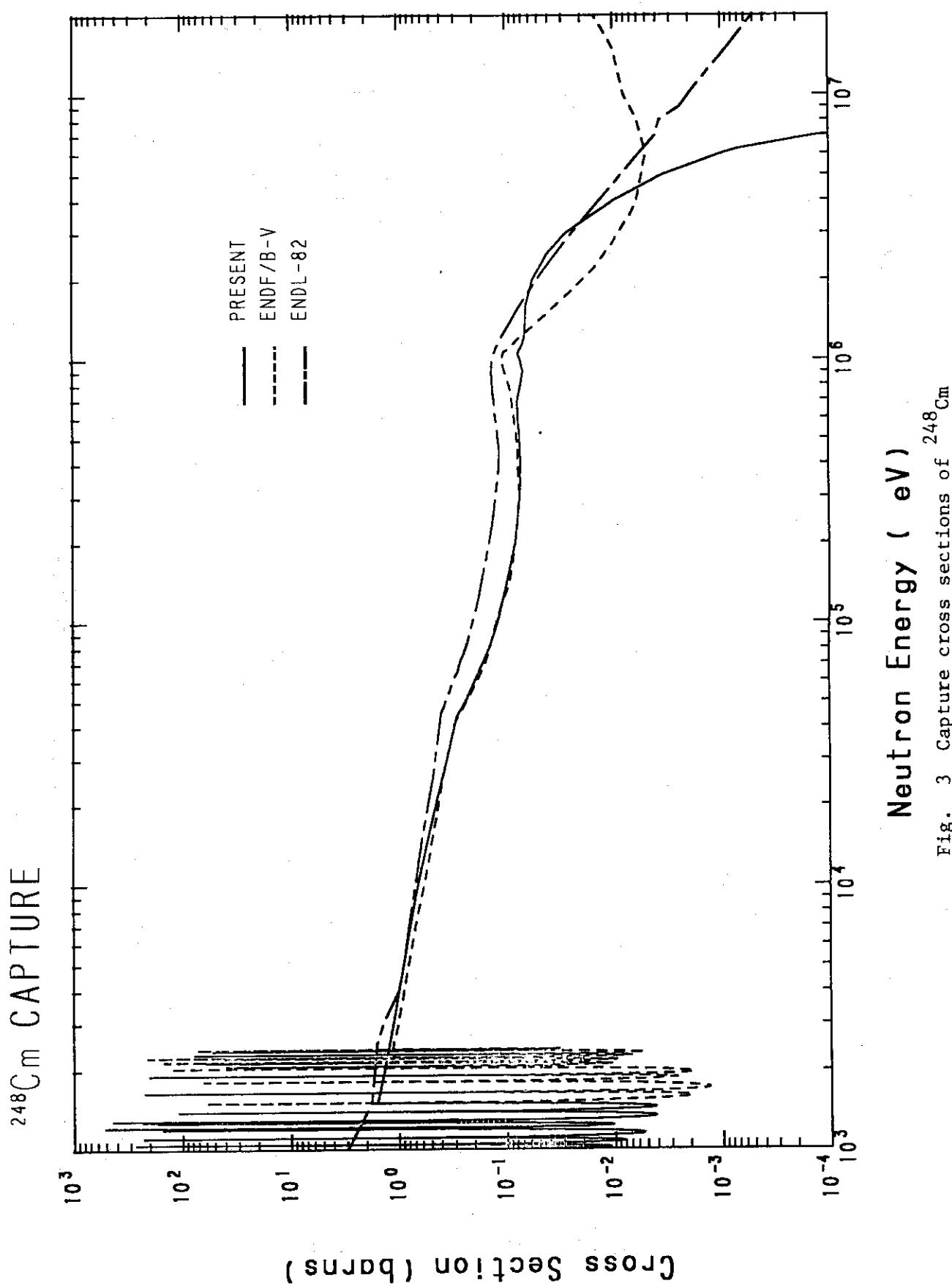


Fig. 3 Capture cross sections of ^{248}Cm

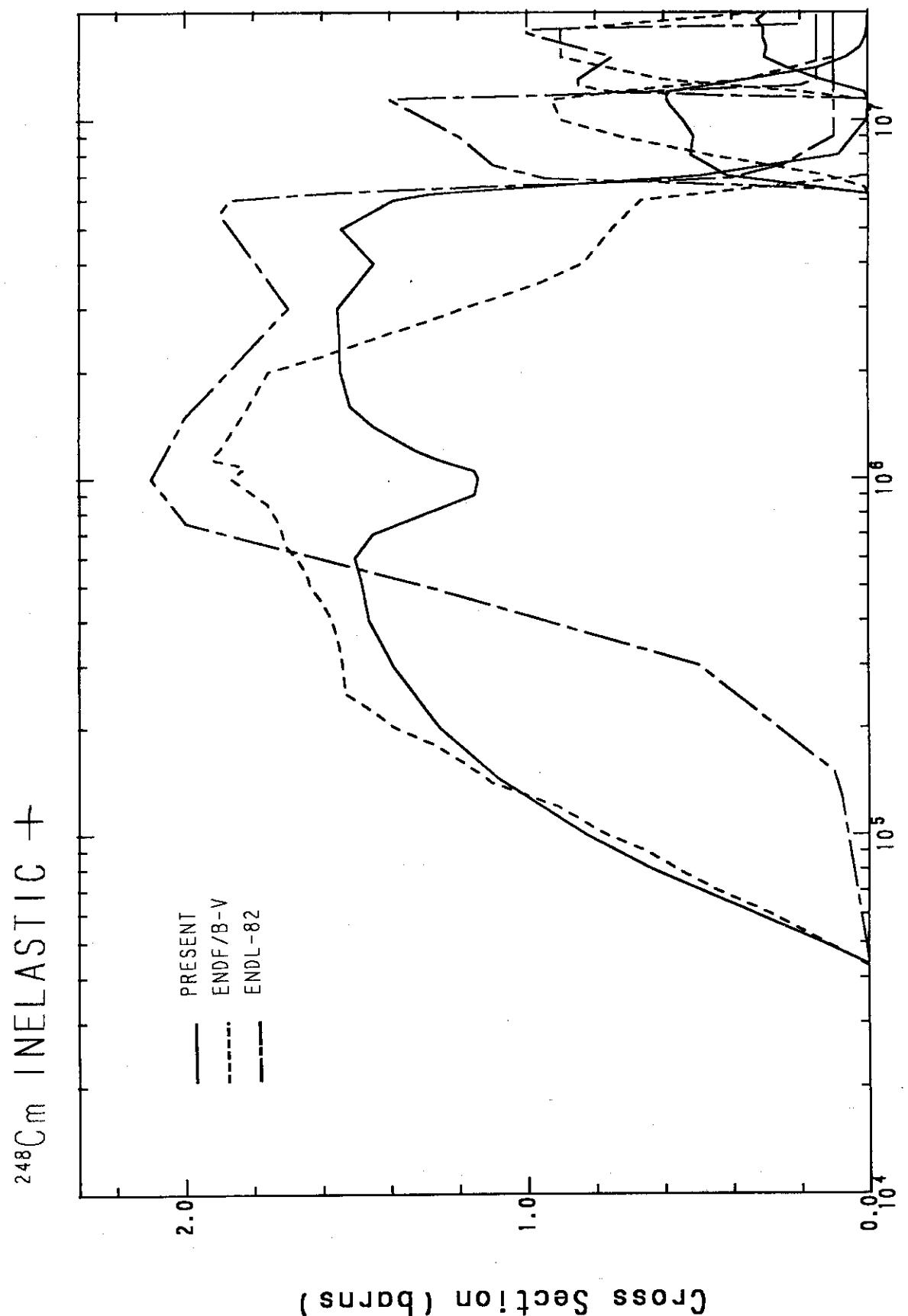


Fig. 4 Inelastic scattering, $(n,2n)$ and $(n,3n)$ reaction cross sections of ^{248}Cm

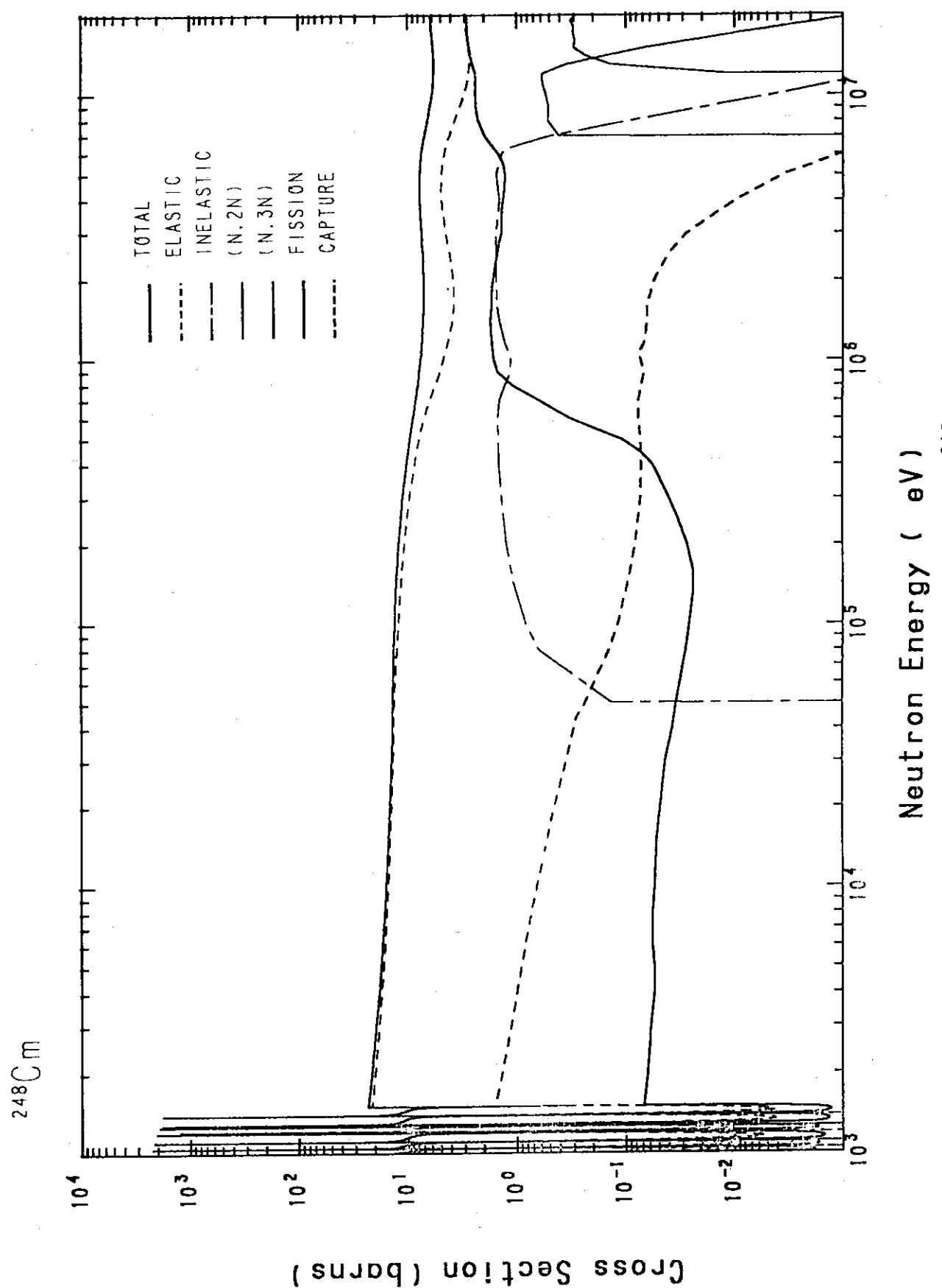


Fig. 5 Evaluated cross sections of ^{248}Cm

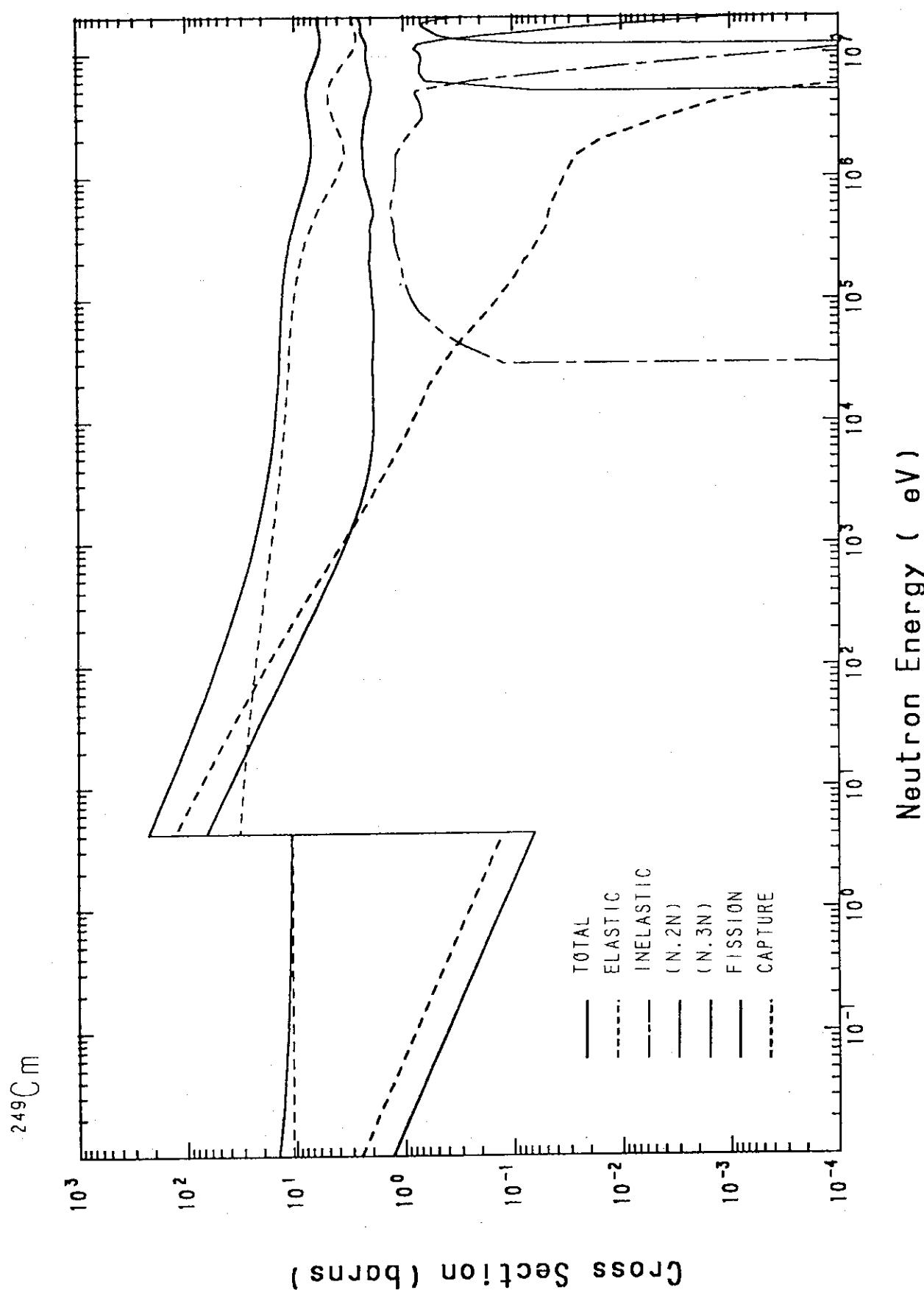


Fig. 6 Evaluated cross sections of 249Cm

Appendix

List of present results in the ENDF/B format

CM-248					0	0
9.62480+ 4	2.45941+ 2	1	1	0	09648	1451
0.0 + 0 0.0	+ 0	0	0	0	09648	1451
0.0 + 0 0.0	+ 0	0	0	105	419648	1451
96-CM-248 JAERI	EVAL-MAR84 Y.KIKUCHI AND T.NAKAGAWA				9648	1451
JAERI-M84-116	DIST-				9648	1451
HISTORY					9648	1451
84-03 NEW EVALUATION FOR JENDL-3 WAS MADE BY Y.KIKUCHI AND					9648	1451
T.NAKAGAWA (JAERI). DETAILS ARE GIVEN IN REF. /1/.					9648	1451
					9648	1451
					9648	1451
MF=1 GENERAL INFORMATION					9648	1451
MT=451 COMMENTS AND DICTIONARY					9648	1451
MT=452 NUMBER OF NEUTRONS PER FISSION					9648	1451
SEMI-EMPIRICAL FORMULA BY HOWERTON /2/.					9648	1451
MT=455 DELAYED NEUTRON DATA					9648	1451
SEMI-EMPIRICAL FORMULA BY TUTTLE /3/.					9648	1451
					9648	1451
MF=2,MT=151 RESONANCE PARAMETERS					9648	1451
RESOLVED RESONANCES FOR MLBW FORMULA : 1.0E-5 EV TO 1.5 KEV					9648	1451
RESONANCE ENERGIES, NEUTRON AND RADIATIVE WIDTHS WERE TAKEN					9648	1451
FROM THE EXPERIMENTAL DATA OF BENJAMIN /4/. FOR RESONANCES					9648	1451
WHOSE RADIATIVE WIDTH WAS UNKNOWN, THE AVERAGE VALUE OF 0.026					9648	1451
EV /4/ WAS ADOPTED. FISSION WIDTHS AND THE AVERAGE FISSION					9648	1451
WIDTH OF 0.0013 EV WERE ADOPTED FROM MOORE AND KEYWORTH /5/.					9648	1451
THE AVERAGE FISSION WIDTH WAS USED FOR ALL RESONANCES OF WHICH					9648	1451
FISSION WIDTH WAS NOT MEASURED. R=9.1 FM WAS ASSUMED TO RE-					9648	1451
PRODUCE THE POTENTIAL SCATTERING CROSS SECTION OF 10.4 BARNS					9648	1451
ASSUMED BY BENJAMIN /4/. THE NEUTRON WIDTH OF THE FIRST					9648	1451
RESONANCE WAS SLIGHTLY ADJUSTED TO REPRODUCE THE CAPTURE CROSS					9648	1451
SECTION OF 2.57 BARNS AT 0.0253 EV. BACKGROUND CROSS SECTIONS					9648	1451
WERE GIVEN ONLY FOR THE FISSION AND TOTAL CROSS SECTIONS BY					9648	1451
ASSUMING THE FORM OF 1/V. THE THERMAL CROSS SECTIONS TO BE					9648	1451
REPRODUCED WERE ESTIMATED FROM AVAILABLE EXPERIMENTAL DATA.					9648	1451
					9648	1451
UNRESOLVED RESONANCES : 1.5 KEV - 30 KEV					9648	1451
OBTAINED FROM OPTICAL MODEL CALCULATION:					9648	1451
S1=3.32E-4 , S2=0.844E-4 , R=8.88 FM.					9648	1451
ESTIMATED FROM RESOLVED RESONANCES:					9648	1451
DOBS=40.0 EV, GAM-G=26 MILLI-EV , SO=1.2E-4					9648	1451
GAM-F OBTAINED BY FITTING THE DATA OF STOPA /6/.					9648	1451
					9648	1451
CALCULATED 2200 M/S CROSS SECTIONS AND RESONANCE INTEGRALS					9648	1451
2200 M/S VALUE		RES. INT.			9648	1451
TOTAL	9.475 B	-			9648	1451
ELASTIC	6.514 B	-			9648	1451
FISSION	0.370 B	17.5 B			9648	1451
CAPTURE	2.570 B	257. B			9648	1451
					9648	1451
MF=3 NEUTRON CROSS SECTIONS					9648	1451
MT=1,2,4,51-58,91,102,251 SIG-T,SIG-EL,SIG-IN,SIG-C,MU-BAR					9648	1451
CALCULATED WITH OPTICAL AND STATISTICAL MODELS.					9648	1451
OPTICAL POTENTIAL PARAMETERS WERE OBTAINED BY FITTING THE					9648	1451
TOTAL CROSS SECTION OF PHILLIPS AND HOWE /7/ FOR AM-241:					9648	1451
V = 43.4 - 0.107*EN		(MEV)			9648	1451
WS= 6.95 - 0.339*EN + 0.0531*EN**2		(MEV)			9648	1451
WV= 0 , VSO = 7.0		(MEV)			9648	1451
R = RSO = 1.282 , RS = 1.29		(FM)			9648	1451
A = ASO = 0.60 , B = 0.5		(FM)			9648	1451
STATISTICAL MODEL CALCULATION WITH CASTHY CODE /8/.					9648	1451
COMPETING PROCESSES : FISSION,(N,2N),(N,3N),(N,4N).					9648	1451
LEVEL FLUCTUATION CONSIDERED.					9648	1451
THE LEVEL SCHEME TAKEN FROM REF. /9/.					9648	1451
NO.	ENERGY(KEV)	SPIN-PARITY			9648	1451
G.S.	0	0 +			9648	1451
1	43.40	2 +			9648	1451
2	143.6	4 +			9648	1451
3	297	6 +			9648	1451
4	510	8 +			9648	1451
5	1048	2 +			9648	1451
6	1050	1 -			9648	1451
7	1084	0 +			9648	1451
8	1094	3 -			9648	1451

CONTINUUM LEVELS ASSUMED ABOVE 1126 KEV.			9648	1451	72
THE LEVEL DENSITY PARAMETERS : GILBERT AND CAMERON /10/.			9648	1451	73
GAMMA-RAY STRENGTH FUNCTION OF 6.5E-4 DEDUCED FROM			9648	1451	74
RESONANCE PARAMETERS.			9648	1451	75
9648 1451 76			9648	1451	77
MT=16,17,37 (N,2N),(N,3N),(N,4N)			9648	1451	78
CALCULATED WITH EVAPORATION MODEL.			9648	1451	79
MT=18 FISSION			9648	1451	80
EVALUATED ON THE BASIS OF THE MEASURED DATA BY STOPA+ /6/.			9648	1451	81
AND FOMUSHKIN+ /11/.			9648	1451	82
9648 1451 83			9648	1451	84
MF=4 ANGULAR DISTRIBUTIONS OF SECONDARY NEUTRONS			9648	1451	85
MT=2,51-58 CALCULATED WITH OPTICAL MODEL.			9648	1451	86
MT=16,17,18,37,91 ISOTROPIC IN THE LABORATORY SYSTEM.			9648	1451	87
9648 1451 88			9648	1451	89
MF=5 ENERGY DISTRIBUTIONS OF SECONDARY NEUTRONS			9648	1451	90
MT=16,17,37,91 EVAPORATION SPECTRUM.			9648	1451	91
MT=18 MAXWELLIAN FISSION SPECTRUM.			9648	1451	92
TEMPERATURE ESTIMATED FROM SYSTEMATICS OF			9648	1451	93
SMITH+/12/.			9648	1451	94
REFERENCES			9648	1451	95
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1	451	149	9648	1451	109
1	452	3	9648	1451	110
1	455	7	9648	1451	111
2	151	122	9648	1451	112
3	1	51	9648	1451	113
3	2	51	9648	1451	114
3	4	16	9648	1451	115
3	16	9	9648	1451	116
3	17	7	9648	1451	117
3	18	21	9648	1451	118
3	37	4	9648	1451	119
3	51	16	9648	1451	120
3	52	15	9648	1451	121
3	53	14	9648	1451	122
3	54	13	9648	1451	123
3	55	11	9648	1451	124
3	56	11	9648	1451	125
3	57	11	9648	1451	126
3	58	10	9648	1451	127
3	91	10	9648	1451	128
3	102	18	9648	1451	129
3	251	17	9648	1451	130
4	2	216	9648	1451	131
4	16	10	9648	1451	132
4	17	10	9648	1451	133
4	18	10	9648	1451	134
4	37	10	9648	1451	135
4	51	15	9648	1451	136
4	52	15	9648	1451	137
4	53	15	9648	1451	138
4	54	15	9648	1451	139
4	55	15	9648	1451	140
4	56	15	9648	1451	141
4	57	15	9648	1451	142

			4	58	15	9648	1451	143		
			4	91	10	9648	1451	144		
			5	16	17	9648	1451	145		
			5	17	22	9648	1451	146		
			5	18	7	9648	1451	147		
			5	37	25	9648	1451	148		
			5	91	10	9648	1451	149		
						9648	1 0	150		
9.62480+	4	2.45941+	2	0	1	09648	1452	151		
0.0	+ 0	0.0	+ 0	0	0	2	09648	1452	152	
3.11000+	0	2.08000-	7				9648	1452	153	
							9648	1 0	154	
9.62480+	4	2.45941+	2	0	2	0	09648	1455	155	
0.0	+ 0	0.0	+ 0	0	0	6	09648	1455	156	
1.28000-	2	3.14000-	2	1.28000-	1	3.25000-	1	1.35000+	0	
0.0	+ 0	0.0	+ 0	0	0	0	1	3.70000+	09648 1455	157
								49648	1455	158
							09648	1455	159	
1.00000-	5	1.96000-	2	6.00000+	6	1.96000-	2	8.00000+	6	
2.00000+	7	1.34000-	2				1.34000-	29648	1455	160
								9648	1455	161
								9648	1 0	162
								9648	0 0	163
9.62480+	4	2.45941+	2	0	0	1	09648	2151	164	
9.62480+	4	1.00000+	0	0	0	2	09648	2151	165	
1.00000-	5	1.50000+	3	1	2	0	09648	2151	166	
0.0	+ 0	9.10000-	1	0	0	1	09648	2151	167	
2.45941+	2	0.0	+ 0	0	0	282	479648	2151	168	
7.24700+	0	5.00000-	1	2.64865-	2	1.88650-	3	2.33000-	2	
2.69000+	1	5.00000-	1	5.12800-	2	1.92000-	2	3.20000-	2	
3.50100+	1	5.00000-	1	4.30000-	2	1.15000-	2	3.02000-	2	
7.61000+	1	5.00000-	1	1.24400-	1	9.50999-	2	2.60000-	2	
9.89500+	1	5.00000-	1	1.73470-	1	1.47000-	1	2.60000-	2	
1.40300+	2	5.00000-	1	2.88000-	2	1.50000-	3	2.60000-	2	
1.86400+	2	5.00000-	1	3.14800-	2	4.17999-	3	2.60000-	2	
2.37900+	2	5.00000-	1	4.35000-	2	1.62000-	2	2.60000-	2	
2.58700+	2	5.00000-	1	8.91000-	2	6.18000-	2	2.60000-	2	
3.21800+	2	5.00000-	1	5.33000-	2	2.60000-	2	2.60000-	2	
3.80600+	2	5.00000-	1	1.19300-	1	9.19999-	2	2.60000-	2	
4.15700+	2	5.00000-	1	7.64000-	2	4.91000-	2	2.60000-	2	
4.57700+	2	5.00000-	1	1.01800-	1	7.45000-	2	2.60000-	2	
4.84900+	2	5.00000-	1	3.68000-	2	9.50000-	3	2.60000-	2	
5.41800+	2	5.00000-	1	4.06300-	1	3.79000-	1	2.60000-	2	
6.05300+	2	5.00000-	1	1.01300-	1	7.39999-	2	2.60000-	2	
6.47000+	2	5.00000-	1	1.34300-	1	1.07000-	1	2.60000-	2	
6.88600+	2	5.00000-	1	6.43000-	2	3.70000-	2	2.60000-	2	
6.94300+	2	5.00000-	1	2.27300-	1	2.00000-	1	2.60000-	2	
7.21500+	2	5.00000-	1	1.16300-	1	8.89999-	2	2.60000-	2	
7.69400+	2	5.00000-	1	8.83000-	2	6.10000-	2	2.60000-	2	
8.65900+	2	5.00000-	1	5.10300-	1	4.83000-	1	2.60000-	2	
8.87100+	2	5.00000-	1	1.25300-	1	9.79999-	2	2.60000-	2	
9.58600+	2	5.00000-	1	1.32300-	1	1.05000-	1	2.60000-	2	
9.94200+	2	5.00000-	1	1.47300-	1	1.20000-	1	2.60000-	2	
1.04200+	3	5.00000-	1	2.14300-	1	1.87000-	1	2.60000-	2	
1.10330+	3	5.00000-	1	2.43300-	1	2.16000-	1	2.60000-	2	
1.19360+	3	5.00000-	1	3.52300-	1	3.25000-	1	2.60000-	2	
1.20970+	3	5.00000-	1	6.23000-	2	3.50000-	2	2.60000-	2	
1.26200+	3	5.00000-	1	2.93300-	1	2.66000-	1	2.60000-	2	
1.27660+	3	5.00000-	1	2.02300-	1	1.75000-	1	2.60000-	2	
1.28810+	3	5.00000-	1	8.13000-	2	5.40000-	2	2.60000-	2	
1.38900+	3	5.00000-	1	4.26300-	1	3.99000-	1	2.60000-	2	
1.50500+	3	5.00000-	1	6.98300-	1	6.71000-	1	2.60000-	2	
1.64600+	3	5.00000-	1	1.57300-	1	1.30000-	1	2.60000-	2	
1.81200+	3	5.00000-	1	5.63300-	1	5.36000-	1	2.60000-	2	
1.91000+	3	5.00000-	1	1.45300-	1	1.18000-	1	2.60000-	2	
2.04000+	3	5.00000-	1	2.21300-	1	1.94000-	1	2.60000-	2	
2.07100+	3	5.00000-	1	7.96300-	1	7.69000-	1	2.60000-	2	
2.13800+	3	5.00000-	1	4.89300-	1	4.62000-	1	2.60000-	2	
2.15600+	3	5.00000-	1	1.80300-	1	1.53000-	1	2.60000-	2	
2.21500+	3	5.00000-	1	6.72300-	1	6.45000-	1	2.60000-	2	
2.23400+	3	5.00000-	1	1.12300-	1	8.50000-	2	2.60000-	2	
2.29100+	3	5.00000-	1	3.52300-	1	3.25000-	1	2.60000-	2	
2.336900+	3	5.00000-	1	5.14300-	1	4.87000-	1	2.60000-	2	
2.39100+	3	5.00000-	1	3.45300-	1	3.18000-	1	2.60000-	2	

2.98400+	3	5.00000-	1	1.55730+	0	1.53000+	0	2.60000-	2	1.30000-	39648	2151	215
1.50000+	3	3.00000+	4		2		2		0		09648	2151	216
0.0	+ 0	8.87900-	1		0		0		3		09648	2151	217
2.45941+	2	0.0	+ 0		0		0		1		09648	2151	218
5.00000-	1	0.0	+ 0		2		0		72		119648	2151	219
0.0	+ 0	0.0	+ 0	0.0	+ 0	1.00000+	0	0.0	+ 0	1.00000+	09648	2151	220
1.50000+	3	3.98720+	1	0.0	+ 0	4.78470-	3	2.60000-	2	1.15280-	39648	2151	221
2.00000+	3	3.98290+	1	0.0	+ 0	4.77950-	3	2.60000-	2	1.24650-	39648	2151	222
3.00000+	3	3.97440+	1	0.0	+ 0	4.76930-	3	2.60000-	2	1.41220-	39648	2151	223
4.00000+	3	3.96590+	1	0.0	+ 0	4.75910-	3	2.60000-	2	1.48380-	39648	2151	224
5.00000+	3	3.95740+	1	0.0	+ 0	4.74890-	3	2.60000-	2	1.63640-	39648	2151	225
6.00000+	3	3.94900+	1	0.0	+ 0	4.73880-	3	2.60000-	2	1.85520-	39648	2151	226
8.00000+	3	3.93210+	1	0.0	+ 0	4.71850-	3	2.60000-	2	2.12270-	39648	2151	227
1.00000+	4	3.91540+	1	0.0	+ 0	4.69850-	3	2.60000-	2	2.27560-	39648	2151	228
1.50000+	4	3.87380+	1	0.0	+ 0	4.64850-	3	2.60000-	2	2.72160-	39648	2151	229
2.00000+	4	3.83260+	1	0.0	+ 0	4.59910-	3	2.60000-	2	2.96240-	39648	2151	230
3.00000+	4	3.75160+	1	0.0	+ 0	4.50200-	3	2.60000-	2	3.35150-	39648	2151	231
2.45941+	2	0.0	+ 0		1		0		2		09648	2151	232
5.00000-	1	0.0	+ 0		2		0		72		119648	2151	233
0.0	+ 0	0.0	+ 0	0.0	+ 0	1.00000+	0	0.0	+ 0	1.00000+	09648	2151	234
1.50000+	3	3.98720+	1	0.0	+ 0	1.32310-	2	2.60000-	2	1.15280-	39648	2151	235
2.00000+	3	3.98290+	1	0.0	+ 0	1.32160-	2	2.60000-	2	1.24650-	39648	2151	236
3.00000+	3	3.97440+	1	0.0	+ 0	1.31880-	2	2.60000-	2	1.41220-	39648	2151	237
4.00000+	3	3.96590+	1	0.0	+ 0	1.31600-	2	2.60000-	2	1.48380-	39648	2151	238
5.00000+	3	3.95740+	1	0.0	+ 0	1.31320-	2	2.60000-	2	1.63640-	39648	2151	239
6.00000+	3	3.94900+	1	0.0	+ 0	1.31040-	2	2.60000-	2	1.85520-	39648	2151	240
8.00000+	3	3.93210+	1	0.0	+ 0	1.30480-	2	2.60000-	2	2.12270-	39648	2151	241
1.00000+	4	3.91540+	1	0.0	+ 0	1.29920-	2	2.60000-	2	2.27560-	39648	2151	242
1.50000+	4	3.87380+	1	0.0	+ 0	1.28540-	2	2.60000-	2	2.72160-	39648	2151	243
2.00000+	4	3.83260+	1	0.0	+ 0	1.27170-	2	2.60000-	2	2.96240-	39648	2151	244
3.00000+	4	3.75160+	1	0.0	+ 0	1.24490-	2	2.60000-	2	3.35150-	39648	2151	245
1.50000+	0	0.0	+ 0		2		0		72		119648	2151	246
0.0	+ 0	0.0	+ 0	0.0	+ 0	1.00000+	0	0.0	+ 0	1.00000+	09648	2151	247
1.50000+	3	1.99360+	1	0.0	+ 0	6.61530-	3	2.60000-	2	1.15280-	39648	2151	248
2.00000+	3	1.99150+	1	0.0	+ 0	6.60810-	3	2.60000-	2	1.24650-	39648	2151	249
3.00000+	3	1.98720+	1	0.0	+ 0	6.59400-	3	2.60000-	2	1.41220-	39648	2151	250
4.00000+	3	1.98300+	1	0.0	+ 0	6.57990-	3	2.60000-	2	1.48380-	39648	2151	251
5.00000+	3	1.97870+	1	0.0	+ 0	6.56590-	3	2.60000-	2	1.63640-	39648	2151	252
6.00000+	3	1.97450+	1	0.0	+ 0	6.55180-	3	2.60000-	2	1.85520-	39648	2151	253
8.00000+	3	1.96610+	1	0.0	+ 0	6.52390-	3	2.60000-	2	2.12270-	39648	2151	254
1.00000+	4	1.95770+	1	0.0	+ 0	6.49610-	3	2.60000-	2	2.27560-	39648	2151	255
1.50000+	4	1.93690+	1	0.0	+ 0	6.42700-	3	2.60000-	2	2.72160-	39648	2151	256
2.00000+	4	1.91630+	1	0.0	+ 0	6.35870-	3	2.60000-	2	2.96240-	39648	2151	257
3.00000+	4	1.87580+	1	0.0	+ 0	6.22440-	3	2.60000-	2	3.35150-	39648	2151	258
2.45941+	2	0.0	+ 0		2		0		2		09648	2151	259
1.50000+	0	0.0	+ 0		2		0		72		119648	2151	260
0.0	+ 0	0.0	+ 0	0.0	+ 0	1.00000+	0	0.0	+ 0	1.00000+	09648	2151	261
1.50000+	3	1.99360+	1	0.0	+ 0	1.68260-	3	2.60000-	2	1.15280-	39648	2151	262
2.00000+	3	1.99150+	1	0.0	+ 0	1.68080-	3	2.60000-	2	1.24650-	39648	2151	263
3.00000+	3	1.98720+	1	0.0	+ 0	1.67720-	3	2.60000-	2	1.41220-	39648	2151	264
4.00000+	3	1.98300+	1	0.0	+ 0	1.67360-	3	2.60000-	2	1.48380-	39648	2151	265
5.00000+	3	1.97870+	1	0.0	+ 0	1.67000-	3	2.60000-	2	1.63640-	39648	2151	266
6.00000+	3	1.97450+	1	0.0	+ 0	1.66650-	3	2.60000-	2	1.85520-	39648	2151	267
8.00000+	3	1.96610+	1	0.0	+ 0	1.65940-	3	2.60000-	2	2.12270-	39648	2151	268
1.00000+	4	1.95770+	1	0.0	+ 0	1.65230-	3	2.60000-	2	2.27560-	39648	2151	269
1.50000+	4	1.93690+	1	0.0	+ 0	1.63470-	3	2.60000-	2	2.72160-	39648	2151	270
2.00000+	4	1.91630+	1	0.0	+ 0	1.61730-	3	2.60000-	2	2.96240-	39648	2151	271
3.00000+	4	1.87580+	1	0.0	+ 0	1.58320-	3	2.60000-	2	3.35150-	39648	2151	272
2.50000+	0	0.0	+ 0		2		0		72		119648	2151	273
0.0	+ 0	0.0	+ 0	0.0	+ 0	1.00000+	0	0.0	+ 0	1.00000+	09648	2151	274
1.50000+	3	1.32910+	1	0.0	+ 0	1.12170-	3	2.60000-	2	1.15280-	39648	2151	275
2.00000+	3	1.32760+	1	0.0	+ 0	1.12050-	3	2.60000-	2	1.24650-	39648	2151	276
3.00000+	3	1.32480+	1	0.0	+ 0	1.11810-	3	2.60000-	2	1.41220-	39648	2151	277
4.00000+	3	1.32200+	1	0.0	+ 0	1.11570-	3	2.60000-	2	1.48380-	39648	2151	278
5.00000+	3	1.31910+	1	0.0	+ 0	1.11340-	3	2.60000-	2	1.63640-	39648	2151	279
6.00000+	3	1.31630+	1	0.0	+ 0	1.11100-	3	2.60000-	2	1.85520-	39648	2151	280
8.00000+	3	1.31070+	1	0.0	+ 0	1.10620-	3	2.60000-	2	2.12270-	39648	2151	281
1.00000+	4	1.30510+	1	0.0	+ 0	1.10150-	3	2.60000-	2	2.27560-	39648	2151	282
1.50000+	4	1.29130+	1	0.0	+ 0	1.08980-	3	2.60000-	2	2.72160-	39648	2151	283
2.00000+	4	1.27750+	1	0.0	+ 0	1.07820-	3	2.60000-	2	2.96240-	39648	2151	284
3.00000+	4	1.25050+	1	0.0	+ 0	1.05550-	3	2.60000-	2	3.35150-	39648	2151	285

9648 2 0 286

9.62480+	4	2.45941+	2	0	99	0	9648	3	1	288				
0.0	+ 0	0.0	+ 0	0	0	3	1439648	3	1	289				
3		5		5	2	143	59648	3	1	290				
1.00000-	5	1.29346+	1	2.53000-	2	2.57153-	1	1.50000+	3	1.05610-				
1.50000+	3	0.0	+ 0	3.00000+	4	0.0	+ 0	3.00000+	4	1.40609+				
4.00000+	4	1.38778+	1	4.35765+	4	1.38238+	1	5.00000+	4	1.37400+				
5.62342+	4	1.36592+	1	6.00000+	4	1.36149+	1	6.32456+	4	1.35789+				
7.11312+	4	1.34991+	1	8.00000+	4	1.34197+	1	1.00000+	5	1.32226+				
1.30000+	5	1.29043+	1	1.44184+	5	1.27808+	1	1.60000+	5	1.25965+				
2.00000+	5	1.22103+	1	2.50000+	5	1.16574+	1	2.98208+	5	1.12383+				
3.00000+	5	1.12192+	1	3.50000+	5	1.07391+	1	4.00000+	5	1.03398+				
4.50000+	5	9.93588+	0	5.00000+	5	9.58796+	0	5.12074+	5	9.51087+				
5.54296+	5	9.24075+	0	6.00000+	5	8.97830+	0	6.48074+	5	8.72928+				
7.00000+	5	8.48717+	0	7.48331+	5	8.29277+	0	8.00000+	5	8.10282+				
9.00000+	5	7.80756+	0	1.00000+	6	7.58402+	0	1.05226+	6	7.49036+				
1.05427+	6	7.48704+	0	1.08841+	6	7.43350+	0	1.09845+	6	7.41876+				
1.13058+	6	7.37447+	0	1.20000+	6	7.29239+	0	1.40000+	6	7.13776+				
1.60000+	6	7.06772+	0	1.80000+	6	7.07394+	0	2.00000+	6	7.07951+				
2.25000+	6	7.16735+	0	2.50000+	6	7.24684+	0	2.75000+	6	7.36137+				
3.00000+	6	7.46750+	0	3.50000+	6	7.62426+	0	4.00000+	6	7.76270+				
4.50000+	6	7.76656+	0	5.00000+	6	7.77002+	0	5.50000+	6	7.63621+				
6.00000+	6	7.51606+	0	6.23800+	6	7.41801+	0	6.42035+	6	7.32647+				
6.60803+	6	7.23606+	0	6.80119+	6	7.14676+	0	6.89988+	6	7.10253+				
7.00000+	6	7.05857+	0	7.23762+	6	6.94064+	0	7.35944+	6	6.88242+				
7.48331+	6	6.82469+	0	7.60926+	6	6.76744+	0	7.73734+	6	6.71067+				
7.80218+	6	6.68246+	0	7.86757+	6	6.65437+	0	7.93351+	6	6.62640+				
8.00000+	6	6.59855+	0	8.45897+	6	6.44558+	0	8.69824+	6	6.37043+				
8.94427+	6	6.29615+	0	9.00000+	6	6.27973+	0	9.19727+	6	6.22274+				
9.32644+	6	6.18636+	0	9.45742+	6	6.15019+	0	9.59024+	6	6.11423+				
9.65735+	6	6.09633+	0	9.72493+	6	6.07848+	0	9.79298+	6	6.06068+				
9.86151+	6	6.04294+	0	9.89595+	6	6.03409+	0	9.93051+	6	6.02525+				
9.96519+	6	6.01642+	0	1.00000+	7	6.00761+	0	1.03367+	7	5.96145+				
1.05093+	7	5.93850+	0	1.06848+	7	5.91563+	0	1.08632+	7	5.89286+				
1.10000+	7	5.87571+	0	1.10446+	7	5.87017+	0	1.11365+	7	5.85885+				
1.12291+	7	5.84756+	0	1.13225+	7	5.83629+	0	1.14166+	7	5.82505+				
1.17934+	7	5.81137+	0	1.19864+	7	5.80455+	0	1.20000+	7	5.80407+				
1.21826+	7	5.79773+	0	1.23820+	7	5.79092+	0	1.25847+	7	5.78412+				
1.26873+	7	5.78072+	0	1.27907+	7	5.77732+	0	1.28949+	7	5.77393+				
1.29473+	7	5.77224+	0	1.30000+	7	5.77054+	0	1.32431+	7	5.78435+				
1.34907+	7	5.79818+	0	1.37430+	7	5.81205+	0	1.38709+	7	5.81900+				
1.40000+	7	5.82596+	0	1.42436+	7	5.83893+	0	1.44914+	7	5.85194+				
1.47435+	7	5.86497+	0	1.48712+	7	5.87150+	0	1.50000+	7	5.87803+				
1.52440+	7	5.89989+	0	1.54919+	7	5.92182+	0	1.57439+	7	5.94384+				
1.58714+	7	5.95488+	0	1.60000+	7	5.96595+	0	1.62443+	7	5.98678+				
1.64924+	7	6.00769+	0	1.67443+	7	6.02868+	0	1.68717+	7	6.03920+				
1.70000+	7	6.04973+	0	1.72204+	7	6.06747+	0	1.74437+	7	6.08526+				
1.76699+	7	6.10311+	0	1.78990+	7	6.12101+	0	1.78999+	7	6.12107+				
1.80000+	7	6.12774+	0	1.82258+	7	6.14269+	0	1.84545+	7	6.15768+				
1.86860+	7	6.17270+	0	1.89204+	7	6.18776+	0	1.90000+	7	6.19284+				
1.92452+	7	6.20838+	0	1.94936+	7	6.22396+	0	1.97452+	7	6.23958+				
1.98722+	7	6.24740+	0	2.00000+	7	6.25523+	0	9648	3	1				
							9648	3	0	338				
							9648	3	0	339				
9.62480+	4	2.45941+	2	0	0	0	0	9648	3	2	340			
0.0	+ 0	0.0	+ 0	0	0	2	1429648	3	2	341				
4		2		142	5	0	0	9648	3	2	342			
1.00000-	5	0.0	+ 0	2.53000-	2	0.0	+ 0	1.50000+	3	0.0	+ 09648	3	2	343
3.00000+	4	0.0	+ 0	3.00000+	4	1.36644+	1	4.00000+	4	1.35396+	19648	3	2	344
4.35765+	4	1.35007+	1	5.00000+	4	1.33349+	1	5.62342+	4	1.31585+	19648	3	2	345
6.00000+	4	1.30619+	1	6.32456+	4	1.29790+	1	7.11312+	4	1.27970+	19648	3	2	346
8.00000+	4	1.26128+	1	1.00000+	5	1.22476+	1	1.30000+	5	1.17690+	19648	3	2	347
1.44184+	5	1.15741+	1	1.60000+	5	1.13423+	1	2.00000+	5	1.08447+	19648	3	2	348
2.50000+	5	1.02169+	1	2.98208+	5	9.73374+	0	3.00000+	5	9.71297+	09648	3	2	349
3.50000+	5	9.18712+	0	4.00000+	5	8.74675+	0	4.50000+	5	8.31426+	09648	3	2	350
5.00000+	5	7.92156+	0	5.12074+	5	7.82566+	0	5.54296+	5	7.46917+	09648	3	2	351
6.00000+	5	7.07522+	0	6.48074+	5	6.72835+	0	7.00000+	5	6.33974+	09648	3	2	352
7.48331+	5	6.02254+	0	8.00000+	5	5.63620+	0	9.00000+	5	5.08585+	09648	3	2	353
1.00000+	6	4.74773+	0	1.05226+	6	4.61352+	0	1.05427+	6	4.60671+	09648	3	2	354
1.08841+	6	4.49476+	0	1.09845+	6	4.46162+	0	1.13058+	6	4.36305+	09648	3	2	355
1.20000+	6	4.19034+	0	1.40000+	6	3.89523+	0	1.60000+	6	3.77505+	09648	3	2	356
1.80000+	6	3.77079+	0	2.00000+	6	3.81693+	0	2.25000+	6	3.98101+	09648	3	2	357
2.50000+	6	4.13607+	0	2.75000+	6	4.32434+	0	3.00000+	6	4.50389+	09648	3	2	358

3.50000+	6	4.72868+	0	4.00000+	6	4.95369+	0	4.50000+	6	4.96160+	09648	3	2	359
5.00000+	6	4.94273+	0	5.50000+	6	4.84143+	0	6.00000+	6	4.63275+	09648	3	2	360
6.23800+	6	4.53836+	0	6.42035+	6	4.45948+	0	6.60803+	6	4.37416+	09648	3	2	361
6.80119+	6	4.28209+	0	6.89988+	6	4.23341+	0	7.00000+	6	4.18292+	09648	3	2	362
7.23762+	6	4.06961+	0	7.35944+	6	4.01241+	0	7.48331+	6	3.95482+	09648	3	2	363
7.60926+	6	3.89682+	0	7.73734+	6	3.83839+	0	7.80218+	6	3.80901+	09648	3	2	364
7.86757+	6	3.77952+	0	7.93351+	6	3.74990+	0	8.00000+	6	3.72018+	09648	3	2	365
8.45897+	6	3.54063+	0	8.69824+	6	3.45185+	0	8.94427+	6	3.36371+	09648	3	2	366
9.00000+	6	3.34440+	0	9.19727+	6	3.28307+	0	9.32644+	6	3.24397+	09648	3	2	367
9.45742+	6	3.20502+	0	9.59024+	6	3.16622+	0	9.65735+	6	3.14687+	09648	3	2	368
9.72493+	6	3.12756+	0	9.79298+	6	3.10829+	0	9.86151+	6	3.08905+	09648	3	2	369
9.89595+	6	3.07945+	0	9.93051+	6	3.06985+	0	9.96519+	6	3.06027+	09648	3	2	370
1.00000+	7	3.05069+	0	1.03367+	7	2.99257+	0	1.05093+	7	2.96348+	09648	3	2	371
1.06848+	7	2.93436+	0	1.08632+	7	2.90522+	0	1.10000+	7	2.88320+	09648	3	2	372
1.10446+	7	2.87671+	0	1.11365+	7	2.86344+	0	1.12291+	7	2.85019+	09648	3	2	373
1.13225+	7	2.83694+	0	1.14166+	7	2.82370+	0	1.17934+	7	2.80301+	09648	3	2	374
1.19864+	7	2.79258+	0	1.20000+	7	2.79185+	0	1.21826+	7	2.78133+	09648	3	2	375
1.23820+	7	2.77010+	0	1.25847+	7	2.75895+	0	1.26873+	7	2.75340+	09648	3	2	376
1.27907+	7	2.74788+	0	1.28949+	7	2.74238+	0	1.29473+	7	2.73964+	09648	3	2	377
1.30000+	7	2.73690+	0	1.32431+	7	2.74316+	0	1.34907+	7	2.74948+	09648	3	2	378
1.37430+	7	2.75588+	0	1.38709+	7	2.75911+	0	1.40000+	7	2.76236+	09648	3	2	379
1.42436+	7	2.76678+	0	1.44914+	7	2.77124+	0	1.47435+	7	2.77574+	09648	3	2	380
1.48712+	7	2.77801+	0	1.50000+	7	2.78028+	0	1.52440+	7	2.79403+	09648	3	2	381
1.54919+	7	2.80790+	0	1.57439+	7	2.82191+	0	1.58714+	7	2.82896+	09648	3	2	382
1.60000+	7	2.83605+	0	1.62443+	7	2.85020+	0	1.64924+	7	2.86442+	09648	3	2	383
1.67443+	7	2.87871+	0	1.68717+	7	2.88588+	0	1.70000+	7	2.89306+	09648	3	2	384
1.72204+	7	2.90579+	0	1.74437+	7	2.91857+	0	1.76699+	7	2.93142+	09648	3	2	385
1.78990+	7	2.94433+	0	1.78999+	7	2.94437+	0	1.80000+	7	2.94870+	09648	3	2	386
1.82258+	7	2.95938+	0	1.84545+	7	2.97005+	0	1.86860+	7	2.98069+	09648	3	2	387
1.89204+	7	2.99132+	0	1.90000+	7	2.99489+	0	1.92452+	7	3.00642+	09648	3	2	388
1.94936+	7	3.01800+	0	1.97452+	7	3.02962+	0	1.98722+	7	3.03544+	09648	3	2	389
2.00000+	7	3.04128+	0							9648	3	2	390	
										9648	3	0	391	
9.62480+	4	2.45941+	2		0	99		0		09648	3	4	392	
0.0	+ 0-4.34000+	4		0	0	0		1		389648	3	4	393	
38		3		0	0	0		0		09648	3	4	394	
4.35765+	4	0.0	+ 0	5.00000+	4	1.35734-	1	8.00000+	4	6.37071-	19648	3	4	395
1.00000+	5	8.30073-	-1	1.44184+	5	1.08651+	0	2.00000+	5	1.25651+	09648	3	4	396
2.98208+	5	1.39183+	0	4.00000+	5	1.46455+	0	5.12074+	5	1.48677+	09648	3	4	397
6.00000+	5	1.50625+	0	7.00000+	5	1.45296+	0	8.00000+	5	1.29465+	09648	3	4	398
9.00000+	5	1.15344+	0	1.00000+	6	1.14367+	0	1.05226+	6	1.15583+	09648	3	4	399
1.05427+	6	1.15889+	0	1.08841+	6	1.20397+	0	1.09845+	6	1.21862+	09648	3	4	400
1.13058+	6	1.26156+	0	1.20000+	6	1.32595+	0	1.40000+	6	1.44842+	09648	3	4	401
1.60000+	6	1.51919+	0	2.00000+	6	1.54729+	0	2.50000+	6	1.54997+	09648	3	4	402
3.00000+	6	1.55614+	0	4.00000+	6	1.44927+	0	5.00000+	6	1.54383+	09648	3	4	403
6.00000+	6	1.39233+	0	6.23800+	6	1.28017+	0	7.00000+	6	4.91966-	19648	3	4	404
8.00000+	6	8.72551-	-2	1.00000+	7	4.16107-	-3	1.14166+	7	7.38830-	49648	3	4	405
1.30000+	7	1.18465-	-4	1.50000+	7	1.01281-	-4	1.70000+	7	1.15477-	49648	3	4	406
1.78990+	7	9.94976-	-5	2.00000+	7	1.41161-	-4			9648	3	4	407	
										9648	3	0	408	
9.62480+	4	2.45941+	2		0	99		0		09648	3	16	409	
0.0	+ 0-6.21270+	6		0	0	0		1		169648	3	16	410	
16		2		0	0	0		0		09648	3	16	411	
6.23800+	6	0.0	+ 0	7.00000+	6	4.13560-	1	8.00000+	6	5.21110-	19648	3	16	412
9.00000+	6	5.12170-	-1	1.00000+	7	5.42760-	-1	1.10000+	7	5.80820-	19648	3	16	413
1.14166+	7	5.90610-	-1	1.20000+	7	5.89560-	-1	1.30000+	7	3.54430-	19648	3	16	414
1.40000+	7	1.47910-	-1	1.50000+	7	6.43780-	-2	1.60000+	7	2.33110-	29648	3	16	415
1.70000+	7	9.18820-	-3	1.80000+	7	3.49170-	-3	1.90000+	7	1.43270-	39648	3	16	416
2.00000+	7	5.46490-	-4							9648	3	16	417	
										9648	3	0	418	
9.62480+	4	2.45941+	2		0	99		0		09648	3	17	419	
0.0	+ 0-1.13704+	7		0	0	0		1		109648	3	17	420	
10		2		0	0	0		0		09648	3	17	421	
1.14166+	7	0.0	+ 0	1.20000+	7	1.21580-	-2	1.30000+	7	1.39090-	19648	3	17	422
1.40000+	7	2.35580-	-1	1.50000+	7	3.03270-	-1	1.60000+	7	2.96480-	19648	3	17	423
1.70000+	7	3.07370-	-1	1.80000+	7	3.05270-	-1	1.90000+	7	3.24440-	19648	3	17	424
2.00000+	7	2.96720-	-1							9648	3	17	425	
										9648	3	0	426	
9.62480+	4	2.45941+	2		0	99		0		09648	3	18	427	
0.0	+ 0 0.0	+ 0		0	0	0		3		549648	3	18	428	
3		5		5	2	54		54		59648	3	18	429	
1.00000-	5	1.29346+	1	2.53000-	2	2.57153-	-1	1.50000+	3	1.05610-	39648	3	18	430

1.50000+	3	0.0	+ 0	3.00000+	4	0.0	+ 0	3.00000+	4	4.33000-	29648	3	18	431
4.00000+	4	3.71000-	2	5.00000+	4	3.43000-	2	6.00000+	4	3.18000-	29648	3	18	432
8.00000+	4	2.83000-	2	1.00000+	5	2.62000-	2	1.30000+	5	2.43000-	29648	3	18	433
1.60000+	5	2.43000-	2	2.00000+	5	2.73000-	2	2.50000+	5	3.30000-	29648	3	18	434
3.00000+	5	4.01000-	2	3.50000+	5	4.86000-	2	4.00000+	5	5.67000-	29648	3	18	435
4.50000+	5	7.42000-	2	5.00000+	5	1.09000-	1	6.00000+	5	3.21000-	19648	3	18	436
7.00000+	5	6.18000-	1	8.00000+	5	1.10000+	0	9.00000+	5	1.50000+	09648	3	18	437
1.00000+	6	1.62000+	0	1.20000+	6	1.71000+	0	1.40000+	6	1.73000+	09648	3	18	438
1.60000+	6	1.71000+	0	1.80000+	6	1.71000+	0	2.00000+	6	1.66000+	09648	3	18	439
2.25000+	6	1.59000+	0	2.50000+	6	1.52000+	0	2.75000+	6	1.45000+	09648	3	18	440
3.00000+	6	1.38000+	0	3.50000+	6	1.38000+	0	4.00000+	6	1.35000+	09648	3	18	441
4.50000+	6	1.30000+	0	5.00000+	6	1.28000+	0	5.50000+	6	1.33000+	09648	3	18	442
6.00000+	6	1.49000+	0	7.00000+	6	1.97000+	0	8.00000+	6	2.27000+	09648	3	18	443
9.00000+	6	2.38000+	0	1.00000+	7	2.41000+	0	1.10000+	7	2.41000+	09648	3	18	444
1.20000+	7	2.41000+	0	1.30000+	7	2.54000+	0	1.40000+	7	2.68000+	09648	3	18	445
1.50000+	7	2.73000+	0	1.60000+	7	2.81000+	0	1.70000+	7	2.84000+	09648	3	18	446
1.80000+	7	2.87000+	0	1.90000+	7	2.87000+	0	2.00000+	7	2.89000+	09648	3	18	447
											9648	3	0	448
9.62480+	4	2.45941+	2		0	99		0			09648	3	37	449
0.0	+ 0	-1.78274+	7		0	0		1			39648	3	37	450
	3	2		0	0	0		0			09648	3	37	451
1.78999+	7	0.0	+ 0	1.90000+	7	1.95290-	3	2.00000+	7	2.65470-	29648	3	37	452
											9648	3	0	453
9.62480+	4	2.45941+	2		0	1		0			09648	3	51	454
0.0	+ 0	-4.34000+	4		0	0		1			389648	3	51	455
	38	3		0	0	0		0			09648	3	51	456
4.35765+	4	0.0	+ 0	5.00000+	4	1.35734-	1	8.00000+	4	6.37071-	19648	3	51	457
1.00000+	5	8.30073-	1	1.44184+	5	1.08651+	0	2.00000+	5	1.24467+	09648	3	51	458
2.98208+	5	1.34171+	0	4.00000+	5	1.35161+	0	5.12074+	5	1.29081+	09648	3	51	459
6.00000+	5	1.24001+	0	7.00000+	5	1.12530+	0	8.00000+	5	9.45845-	19648	3	51	460
9.00000+	5	7.98702-	1	1.00000+	6	7.54830-	1	1.05226+	6	7.45647-	19648	3	51	461
1.05427+	6	7.42957-	1	1.08841+	6	7.07656-	1	1.09845+	6	6.96904-	19648	3	51	462
1.13058+	6	6.58980-	1	1.20000+	6	5.94096-	1	1.40000+	6	4.72673-	19648	3	51	463
1.60000+	6	3.75344-	1	2.00000+	6	2.03211-	1	2.50000+	6	7.75873-	29648	3	51	464
3.00000+	6	2.63953-	2	4.00000+	6	2.56331-	3	5.00000+	6	2.76686-	49648	3	51	465
6.00000+	6	2.70044-	5	6.23800+	6	1.49813-	5	7.00000+	6	1.21987-	69648	3	51	466
8.00000+	6	3.21182-	8	1.00000+	7	4.70958-11	1	1.14166+	7	8.98803-139648	3	51	467	
1.30000+	7	1.41072-14	1	1.50000+	7	7.82314-16	1	1.70000+	7	6.95432-179648	3	51	468	
1.78990+	7	2.00068-17	2	0.00000+	7	2.42028-18					9648	3	51	469
											9648	3	0	470
9.62480+	4	2.45941+	2		0	2		0			09648	3	52	471
0.0	+ 0	-1.43600+	5		0	0		1			349648	3	52	472
	34	3		0	0	0		0			09648	3	52	473
1.44184+	5	0.0	+ 0	2.00000+	5	1.18428-	2	2.98208+	5	5.01254-	29648	3	52	474
4.00000+	5	1.12867-	1	5.12074+	5	1.95137-	1	6.00000+	5	2.63234-	19648	3	52	475
7.00000+	5	3.20225-	1	8.00000+	5	3.35599-	1	9.00000+	5	3.34810-	19648	3	52	476
1.00000+	6	3.59206-	1	1.05226+	6	3.74534-	1	1.05427+	6	3.74160-	19648	3	52	477
1.08841+	6	3.72075-	1	1.09845+	6	3.71308-	1	1.13058+	6	3.62229-	19648	3	52	478
1.20000+	6	3.48538-	1	1.40000+	6	3.10948-	1	1.60000+	6	2.61245-	19648	3	52	479
2.00000+	6	1.49291-	1	2.50000+	6	6.00189-	2	3.00000+	6	2.18630-	29648	3	52	480
4.00000+	6	2.46311-	3	5.00000+	6	2.99480-	4	6.00000+	6	3.18507-	59648	3	52	481
6.23800+	6	1.79310-	5	7.00000+	6	1.51529-	6	8.00000+	6	4.13873-	89648	3	52	482
1.00000+	7	6.41053-11	1	1.14166+	7	1.25336-12	1	1.30000+	7	2.00970-149648	3	52	483	
1.50000+	7	1.14221-15	1	1.70000+	7	1.03554-16	1	1.78990+	7	3.00117-179648	3	52	484	
2.00000+	7	3.68446-18									9648	3	52	485
											9648	3	0	486
9.62480+	4	2.45941+	2		0	3		0			09648	3	53	487
0.0	+ 0	-2.97000+	5		0	0		1			329648	3	53	488
	32	3		0	0	0		0			09648	3	53	489
2.98208+	5	0.0	+ 0	4.00000+	5	6.49572-	5	5.12074+	5	8.26627-	49648	3	53	490
6.00000+	5	3.00456-	3	7.00000+	5	7.43776-	3	8.00000+	5	1.32019-	29648	3	53	491
9.00000+	5	1.99080-	2	1.00000+	6	2.95808-	2	1.05226+	6	3.55618-	29648	3	53	492
1.05427+	6	3.57775-	2	1.08841+	6	3.91901-	2	1.09845+	6	4.01463-	29648	3	53	493
1.13058+	6	4.22070-	2	1.20000+	6	4.74592-	2	1.40000+	6	5.78380-	29648	3	53	494
1.60000+	6	5.88511-	2	2.00000+	6	4.14492-	2	2.50000+	6	1.95086-	29648	3	53	495
3.00000+	6	8.26972-	3	4.00000+	6	1.23663-	3	5.00000+	6	1.90080-	49648	3	53	496
6.00000+	6	2.39367-	5	6.23800+	6	1.38478-	5	7.00000+	6	1.24961-	69648	3	53	497
8.00000+	6	3.63117-	8	1.00000+	7	6.17287-11	1	1.14166+	7	1.26161-129648	3	53	498	
1.30000+	7	2.09737-14	1	1.50000+	7	1.23900-15	1	1.70000+	7	1.15839-169648	3	53	499	
1.78990+	7	3.39573-17	2	0.00000+	7	4.26452-18					9648	3	53	500
											9648	3	0	501
9.62480+	4	2.45941+	2		0	4		0			09648	3	54	502

0.0	+ 0-5.10000+ 5	0	0	1	309648	3 54	503
30	3	0	0	0	09648	3 54	504
5.12074+	5 0.0 + 0 6.00000+ 5	7.39534-	8 7.00000+ 5	1.37500- 69648	3 54	505	
8.00000+	5 6.91612- 6 9.00000+ 5	2.10914-	5 1.00000+ 6 5.77305- 59648	3 54	506		
1.05226+	6 8.90511- 5 1.05427+ 6	9.04607-	5 1.08841+ 6 1.30128- 49648	3 54	507		
1.09845+	6 1.39969- 4 1.13058+ 6	1.74050-	4 1.20000+ 6 2.63943- 49648	3 54	508		
1.40000+	6 6.45570- 4 1.60000+ 6	1.07768-	3 2.00000+ 6 1.66778- 39648	3 54	509		
2.50000+	6 1.62770- 3 3.00000+ 6	1.16514-	3 4.00000+ 6 3.32518- 49648	3 54	510		
5.00000+	6 7.64460- 5 6.00000+ 6	1.23311-	5 6.23800+ 6 7.40821- 69648	3 54	511		
7.00000+	6 7.28669- 7 8.00000+ 6	2.28521-	8 1.00000+ 7 4.39312-119648	3 54	512		
1.14166+	7 9.59961-13 1.30000+ 7	1.69447-14	1.50000+ 7 1.07079-159648	3 54	513		
1.70000+	7 1.05722-16 1.78990+ 7	3.16089-17	2.00000+ 7 4.12473-189648	3 54	514		
				9648	3 0	515	
9.62480+	4 2.45941+ 2	0	5	0	09648	3 55	516
0.0	+ 0-1.04800+ 6	0	0	1	249648	3 55	517
24	3	0	0	0	09648	3 55	518
1.05226+	6 0.0 + 0 1.05427+ 6	5.90373-	3 1.08841+ 6 4.38431- 29648	3 55	519		
1.09845+	6 5.46304- 2 1.13058+ 6	8.54030-	2 1.20000+ 6 1.34420- 19648	3 55	520		
1.40000+	6 1.86996- 1 1.60000+ 6	1.81706-	1 2.00000+ 6 1.25671- 19648	3 55	521		
2.50000+	6 5.97737- 2 3.00000+ 6	2.28756-	2 4.00000+ 6 2.35773- 39648	3 55	522		
5.00000+	6 2.51031- 4 6.00000+ 6	2.40893-	5 6.23800+ 6 1.33871- 59648	3 55	523		
7.00000+	6 1.10313- 6 8.00000+ 6	2.94451-	8 1.00000+ 7 4.39835-119648	3 55	524		
1.14166+	7 8.45541-13 1.30000+ 7	1.33935-14	1.50000+ 7 7.47193-169648	3 55	525		
1.70000+	7 6.68643-17 1.78990+ 7	1.92939-17	2.00000+ 7 2.34841-189648	3 55	526		
				9648	3 0	527	
9.62480+	4 2.45941+ 2	0	6	0	09648	3 56	528
0.0	+ 0-1.05000+ 6	0	0	1	239648	3 56	529
23	3	0	0	0	09648	3 56	530
1.05427+	6 0.0 + 0 1.08841+ 6	4.10712-	2 1.09845+ 6 4.90704- 29648	3 56	531		
1.13058+	6 6.99283- 2 1.20000+ 6	9.53538-	2 1.40000+ 6 1.13715- 19648	3 56	532		
1.60000+	6 1.07003- 1 2.00000+ 6	7.28015-	2 2.50000+ 6 3.49255- 29648	3 56	533		
3.00000+	6 1.36616- 2 4.00000+ 6	1.41704-	3 5.00000+ 6 1.56018- 49648	3 56	534		
6.00000+	6 1.51866- 5 6.23800+ 6	8.41623-	6 7.00000+ 6 6.84441- 79648	3 56	535		
8.00000+	6 1.80683- 8 1.00000+ 7	2.73501-11	1.14166+ 7 5.32710-139648	3 56	536		
1.30000+	7 8.50681-15 1.50000+ 7	4.77601-16	1.70000+ 7 4.28411-179648	3 56	537		
1.78990+	7 1.23619-17 2.00000+ 7	1.50163-18		9648	3 56	538	
				9648	3 0	539	
9.62480+	4 2.45941+ 2	0	7	0	09648	3 57	540
0.0	+ 0-1.08400+ 6	0	0	1	229648	3 57	541
22	3	0	0	0	09648	3 57	542
1.08841+	6 0.0 + 0 1.09845+ 6	6.41927-	3 1.13058+ 6 1.85403- 29648	3 57	543		
1.20000+	6 3.89336- 2 1.40000+ 6	5.88454-	2 1.60000+ 6 5.63360- 29648	3 57	544		
2.00000+	6 3.83476- 2 2.50000+ 6	1.80466-	2 3.00000+ 6 6.75975- 39648	3 57	545		
4.00000+	6 6.59771- 4 5.00000+ 6	6.75395-	5 6.00000+ 6 6.32358- 69648	3 57	546		
6.23800+	6 3.49797- 6 7.00000+ 6	2.82073-	7 8.00000+ 6 7.27698- 99648	3 57	547		
1.00000+	7 1.06271-11 1.14166+ 7	2.04687-13	1.30000+ 7 3.19371-159648	3 57	548		
1.50000+	7 1.73823-16 1.70000+ 7	1.53329-17	1.78990+ 7 4.39994-189648	3 57	549		
2.00000+	7 5.29397-19			9648	3 57	550	
				9648	3 0	551	
9.62480+	4 2.45941+ 2	0	8	0	09648	3 58	552
0.0	+ 0-1.09400+ 6	0	0	1	219648	3 58	553
21	3	0	0	0	09648	3 58	554
1.09845+	6 0.0 + 0 1.13058+ 6	2.40944-	2 1.20000+ 6 5.44842- 29648	3 58	555		
1.40000+	6 8.86759- 2 1.60000+ 6	9.39171-	2 2.00000+ 6 7.36724- 29648	3 58	556		
2.50000+	6 4.01481- 2 3.00000+ 6	1.73559-	2 4.00000+ 6 2.09243- 39648	3 58	557		
5.00000+	6 2.56350- 4 6.00000+ 6	2.66492-	5 6.23800+ 6 1.49155- 59648	3 58	558		
7.00000+	6 1.24020- 6 8.00000+ 6	3.33278-	8 1.00000+ 7 5.21965-119648	3 58	559		
1.14166+	7 1.03184-12 1.30000+ 7	1.65921-14	1.50000+ 7 9.41660-169648	3 58	560		
1.70000+	7 8.54151-17 1.78990+ 7	2.47570-17	2.00000+ 7 3.03702-189648	3 58	561		
				9648	3 0	562	
9.62480+	4 2.45941+ 2	0	98	0	09648	3 91	563
0.0	+ 0-1.12600+ 6	0	0	1	209648	3 91	564
20	3	0	0	0	09648	3 91	565
1.13058+	6 0.0 + 0 1.20000+ 6	1.24055-	2 1.40000+ 6 1.58086- 19648	3 91	566		
1.60000+	6 3.83713- 1 2.00000+ 6	8.41175-	1 2.50000+ 6 1.23833+ 09648	3 91	567		
3.00000+	6 1.43779+ 0 4.00000+ 6	1.43614+	0 5.00000+ 6 1.54226+ 09648	3 91	568		
6.00000+	6 1.39216+ 0 6.23800+ 6	1.28008+	0 7.00000+ 6 4.91958- 19648	3 91	569		
8.00000+	6 8.72549- 2 1.00000+ 7	4.16107-	3 1.14166+ 7 7.38830- 49648	3 91	570		
1.30000+	7 1.18465- 4 1.50000+ 7	1.01281-	4 1.70000+ 7 1.15477- 49648	3 91	571		
1.78990+	7 9.94976- 5 2.00000+ 7	1.41161-	4	9648	3 91	572	
				9648	3 0	573	
9.62480+	4 2.45941+ 2	0	99	0	09648	3102	574

0.0	+ 0	7.20000+ 5	0	0	2	439648	3102	575
	4	2	43	5	0	09648	3102	576
1.00000-	5	0.0	+ 0	2.53000- 2	0.0	+ 0	1.50000+ 3	0.0
3.00000+	4	0.0	+ 0	3.00000+ 4	3.53215- 1	4.35765+ 4	2.87134- 19648	3102
5.00000+	4	2.35034-	1	8.00000+ 4	1.41483- 1	1.00000+ 5	1.18716- 19648	3102
1.44184+	5	9.58952-	2	2.00000+ 5	8.18336- 2	2.98208+ 5	7.28865- 29648	3102
4.00000+	5	7.17954-	2	5.12074+ 5	7.28916- 2	6.00000+ 5	7.58307- 29648	3102
7.00000+	5	7.64697-	2	8.00000+ 5	7.19694- 2	9.00000+ 5	6.82747- 29648	3102
1.00000+	6	7.26161-	2	1.05226+ 6	7.63519- 2	1.05427+ 6	7.58555- 29648	3102
1.08841+	6	7.35504-	2	1.09845+ 6	7.27716- 2	1.13058+ 6	6.98140- 29648	3102
1.20000+	6	6.61016-	2	1.40000+ 6	6.41065- 2	1.60000+ 6	6.34768- 29648	3102
2.00000+	6	5.52900-	2	2.50000+ 6	4.08018- 2	3.00000+ 6	2.74718- 29648	3102
4.00000+	6	9.74260-	3	5.00000+ 6	3.45591- 3	6.00000+ 6	9.75160- 49648	3102
6.23800+	6	6.89536-	4	7.00000+ 6	1.22935- 4	8.00000+ 6	9.50310- 69648	3102
1.00000+	7	1.39463-	7	1.14166+ 7	1.40213- 8	1.30000+ 7	1.41062- 99648	3102
1.50000+	7	7.92928-10	1	1.70000+ 7	6.73629-10	1.78990+ 7	5.25620-109648	3102
2.00000+	7	6.21759-10	,				9648	3102
							9648	3 0 592
9.62480+	4	2.45941+ 2	0	0	0	09648	3251	593
0.0	+ 0	0.0	+ 0	0	0	1	429648	3251
	42	3	0	0	0	0	09648	3251
1.00000-	5	2.71067-	3	1.00000+ 3	3.11988- 3	1.00000+ 4	9.88300- 39648	3251
3.00000+	4	2.92228-	2	4.35765+ 4	4.33629- 2	5.00000+ 4	5.05070- 29648	3251
8.00000+	4	8.50323-	2	1.00000+ 5	1.07646- 1	1.44184+ 5	1.54422- 19648	3251
2.00000+	5	2.05587-	1	2.98208+ 5	2.75114- 1	4.00000+ 5	3.25046- 19648	3251
5.12074+	5	3.65158-	1	6.00000+ 5	3.87397- 1	7.00000+ 5	4.10632- 19648	3251
8.00000+	5	4.35268-	1	9.00000+ 5	4.54183- 1	1.00000+ 6	4.60243- 19648	3251
1.05226+	6	6.61465-	1	1.05427+ 6	4.61711- 1	1.08841+ 6	4.66001- 19648	3251
1.09845+	6	4.67470-	1	1.13058+ 6	4.71971- 1	1.20000+ 6	4.80297- 19648	3251
1.40000+	6	5.00908-	1	1.60000+ 6	5.26244- 1	2.00000+ 6	5.89295- 19648	3251
2.50000+	6	6.57363-	1	3.00000+ 6	7.03563- 1	4.00000+ 6	7.61267- 19648	3251
5.00000+	6	7.96532-	1	6.00000+ 6	8.15437- 1	6.23800+ 6	8.17965- 19648	3251
7.00000+	6	8.22002-	1	8.00000+ 6	8.21120- 1	1.00000+ 7	8.21107- 19648	3251
1.14166+	7	8.36835-	1	1.30000+ 7	8.63271- 1	1.50000+ 7	8.96523- 19648	3251
1.70000+	7	9.21936-	1	1.78990+ 7	9.30194- 1	2.00000+ 7	9.43357- 19648	3251
							9648	3 0 609
							9648	3 0 610
							9648	0 0 611
9.62480+	4	2.45941+ 2	1	1	0	09648	4 2	612
0.0	+ 0	2.45941+ 2	0	2	441	209648	4 2	613
1.00000+	0	2.71067-	3	3.30650-	6-1.02381-18	0.0	+ 0 0.0	+ 09648 4 2
0.0	+ 0	0.0	+ 0	0.0	+ 0 0.0	+ 0 0.0	+ 09648 4 2	615
0.0	+ 0	0.0	+ 0	0.0	+ 0 0.0	+ 0 0.0	+ 09648 4 2	616
0.0	+ 0	0.0	+ 0	0.0	+ 0 0.0	+ 0 9.99990-	1 4.87919- 39648 4 2	
1.13365-	5	1.28041-	8	7.80868-12-7.78174-15	0.0	+ 0 0.0	+ 0 0.0	+ 09648 4 2
0.0	+ 0	0.0	+ 0	0.0	+ 0 0.0	+ 0 0.0	+ 09648 4 2	619
0.0	+ 0	0.0	+ 0	0.0	+ 0 0.0	+ 0 0.0	+ 09648 4 2	620
0.0	+ 0-2.71064-	3	9.99974-	1 6.97022-	3 2.36176- 5	4.65601- 89648 4 2	621	
5.73267-11	2	5.0196-14	0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 09648 4 2	622
0.0	+ 0	0.0	+ 0	0.0	+ 0 0.0	+ 0 0.0	+ 09648 4 2	623
0.0	+ 0	0.0	+ 0	0.0	+ 0 0.0	+ 0 9.91932-	6-4.87909- 39648 4 2	
9.99949-	1	9.03535-	3	4.00781- 5	1.09684- 7	2.00917-10	2.59982-139648 4 2	
0.0	+ 0	0.0	+ 0	0.0	+ 0 0.0	+ 0 0.0	+ 09648 4 2	625
0.0	+ 0	0.0	+ 0	0.0	+ 0 0.0	+ 0 0.0	+ 09648 4 2	626
0.0	+ 0	0.0	+ 0	0.0	+ 0 0.0	+ 0 0.0	+ 09648 4 2	627
0.0	+ 0-3.84115-	8	2.26725-	5-6.97001-	3 9.99916-	1 1.10887- 29648 4 2	628	
6.06945-	5	2.10592-	7	5.02169-10	0.0	+ 0 0.0	+ 0 0.0	+ 09648 4 2
0.0	+ 0	0.0	+ 0	0.0	+ 0 0.0	+ 0 0.0	+ 09648 4 2	629
0.0	+ 0	0.0	+ 0	0.0	+ 0 0.0	+ 0 0.0	+ 09648 4 2	630
0.0	+ 0	0.0	+ 0	0.0	+ 0 0.0	+ 0 1.51843-10-1.02430-	79648 4 2	
3.93614-	5	9-9.03501-	3	9.99875-	1 1.31355-	2 8.54567- 5 3.58282-	79648 4 2	
-3.62634-	8	-7.64203-10	0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 09648 4 2	
0.0	+ 0	0.0	+ 0	0.0	+ 0 0.0	+ 0 0.0	+ 09648 4 2	
0.0	+ 0-6.06170-13	4	4.54342-10-2.03693-	7 6.01147-	5-1.10882- 29648 4 2	635		
9.99825-	1	1.51785-	2	1.14316- 4	5.59179- 7-4.88509-	8-1.41508- 99648 4 2	636	
0.0	+ 0	0.0	+ 0	0.0	+ 0 0.0	+ 0 0.0	+ 09648 4 2	637
0.0	+ 0	0.0	+ 0	0.0	+ 0 0.0	+ 0 2.43310-15-1.98945-	129648 4 2	
1.00342-	9	-3.50973-	7	8.49681- 5-1.31348-	2 9.99767- 1 1.72188-	29648 4 2	639	
1.47342-	4	8.23316-	7-3.48864-	8-1.27565-	9 0.0	+ 0 0.0	+ 09648 4 2	
0.0	+ 0	0.0	+ 0	0.0	+ 0 0.0	+ 0 0.0	+ 09648 4 2	641
0.0	+ 0-9.79877-18	8	6.62846-15-4.78705-12	1.90275-	9-5.52774- 79648 4 2	642		
1.13936-	4	-1.51775-	2	9.99701- 1 1.92572-	2 1.84532- 4 1.15969-	69648 4 2	643	
-2.97247-	8	-7.29993-10	0.0	+ 0 0.0	+ 0 0.0	+ 0 0.0	+ 09648 4 2	
0.0	+ 0	0.0	+ 0	0.0	+ 0 0.0	+ 0 3.95490-20-2.15845-	179648 4 2	
2.23268-14-9.82994-12	3	3.27223-	9-8.17532-	7 1.47024-	4-1.72175- 29648 4 2	644		

9.99627-	1	2.12942-	2	2.25844-	4	1.57624-	6-5.02289-	8-7.93584-	109648	4	2	647
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	09648
0.0	+ 0	0.0	+ 0	6.32408-20	-6.29739-17	4.90849-14	-1.82066-11	9.9648	4	2	648	
5.24860-	9-1.	1.5366-	6	1.84235-	4-1.	92557-	2	9.99544-	1	2.33301-	29648	4
2.71259-	4	2.08032-	6-8.	4.7487-	8-3.	90397-	9	0.0	+ 0	0.0	+ 0	09648
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	09648
1.98846-19	-1.	3.8844-16	9.69422-14	-3.12999-11	7.98562-	9-1.56958-	69648	4	2	653		
2.25571-	4-2.	1.2923-	2	9.99453-	1	2.53650-	2	3.20788-	4	2.67798-	69648	4
-1.48422-	8-1.	1.17478-	9	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	09648
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	4.53673-19	-3.99557-	169648	4	2
1.77065-13	-5.	0.08221-11	1.16541-	8-2.07367-	6	2.71033-	4-2.33278-	29648	4	2	657	
9.99354-	1	2.73991-	2	3.74559-	4	3.38662-	6-2.30632-	8-3.69202-	99648	4	2	658
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	09648
0.0	+ 0	0.0	+ 0	1.16867-18	-8.61856-16	3.04451-13	-7.88500-11	9.9648	4	2	659	
1.64418-	8-2.	6.7433-	6	3.20621-	4-2.	53624-	2	9.99247-	1	2.94324-	29648	4
4.32373-	4	4.20315-	6	4.17298-	8	4.39311-10	0.0	+ 0	0.0	+ 0	0.0	+ 09648
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	09648
2.40801-18	-1.	6.3978-15	4.98711-13	-1.17859-10	2.25536-	8-3.37996-	69648	4	2	664		
3.74334-	4-2.	7.3960-	2	9.99131-	1	3.14651-	2	4.94390-	4	5.14817-	69648	4
-1.12210-	8-2.	3.1226-	9	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	09648
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	4.45087-18	-2.89214-	159648	4	2
7.84908-13	-1.	7.0759-10	3.02115-	8-4.19894-	6	4.32172-	4-2.94289-	29648	4	2	668	
9.99007-	1	3.34972-	2	5.60406-	4	6.21625-	6	1.48082-	8-1.55249-	99648	4	2
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	09648
0.0	+ 0	-1.47862-20	7.68060-18	-4.83464-15	1.19448-12	-2.40929-10	9.9648	4	2	671		
3.96543-	8-5.	1.3966-	6	4.94134-	4-3.	14611-	2	9.98875-	1	3.55286-	29648	4
6.30628-	4	7.42649-	6	2.37097-	8	0.0	+ 0	0.0	+ 0	0.0	+ 0	09648
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	09648
1.26115-17	-7.	7.75381-15	1.76623-12	-3.32247-10	5.11382-	8-6.21050-	69648	4	2	675		
5.60220-	4-3.	3.4926-	2	9.98735-	1	3.75594-	2	7.04954-	4	8.78224-	69648	4
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	09648
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	09648
2.54737-12	-4.	4.49135-10	6.49361-	8-7.41985-	6	6.30428-	4-3.55234-	29648	4	2	679	
9.98586-	1	3.95895-	2	7.83422-	4	0.0	+ 0	0.0	+ 0	0.0	+ 0	09648
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	09648
0.0	+ 0	-6.59798-20	3.04773-17	-1.81209-14	3.59466-12	-5.96582-10	9.9648	4	2	682		
8.13380-	8-8.	7.77608-	6	7.04757-	4-3.	75536-	2	9.98429-	1	4.16191-	29648	4
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	09648
0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	0.0	+ 0	09648
4.53942-17	-2.	6.6516-14	4.97561-12	-7.80185-10	1.00651-	7-1.02876-	59648	4	2	686		
7.83207-	4-3.	9.5831-	2	9.98264-	1				9648	4	2	687
0.0	+ 0	0.0	+ 0	0	0	0	1		429648	4	2	688
	42		2	0	0	0	0		09648	4	2	689
0.0	+ 0	1.00000-	5	0	0	0	2		09648	4	2	690
0.0	+ 0	0.0	+ 0					9648	4	2	691	
0.0	+ 0	1.00000+	3	0	0	0	2		09648	4	2	692
4.09872-	4	2.45878-	4					9648	4	2	693	
0.0	+ 0	1.00000+	4	0	0	0	4		09648	4	2	694
7.19601-	3	8.71133-	3	3.15673-	7	1.82491-	8		9648	4	2	695
0.0	+ 0	3.00000+	4	0	0	0	4		09648	4	2	696
2.65700-	2	2.12794-	2	8.74936-	6	1.34914-	6		9648	4	2	697
0.0	+ 0	4.35765+	4	0	0	0	6		09648	4	2	698
4.07263-	2	2.71730-	2	2.71960-	5	5.62774-	6-2.64158-10	4.04133-	99648	4	2	699
0.0	+ 0	5.00000+	4	0	0	0	6		09648	4	2	700
4.78745-	2	2.86639-	2	4.13522-	5	5.02984-	6-5.13715-10	7.71418-	99648	4	2	701
0.0	+ 0	8.00000+	4	0	0	0	6		09648	4	2	702
8.24160-	2	3.44830-	2	1.72572-	4	2.25598-	5-4.73928-	9	7.20417-	89648	4	2
0.0	+ 0	1.00000+	5	0	0	0	6		09648	4	2	703
1.05042-	1	3.89123-	2	3.36451-	4	4.64923-	5-1.28472-	8	2.19404-	79648	4	2
0.0	+ 0	1.44184+	5	0	0	0	6		09648	4	2	704
1.51847-	1	4.96283-	2	9.85463-	4	1.48650-	4-5.39242-	8	1.37983-	69648	4	2
0.0	+ 0	2.00000+	5	0	0	0	6		09648	4	2	705
2.03052-	1	6.41272-	2	2.50703-	3	4.09420-	4-7.36284-	8	3.11847-	69648	4	2
0.0	+ 0	2.98208+	5	0	0	0	8		09648	4	2	706
2.72649-	1	8.98914-	2	7.51191-	3	1.46671-	3	5.17915-	6	1.66927-	59648	4
1.99782-	8	6.44437-10							9648	4	2	711
0.0	+ 0	4.00000+	5	0	0	0	8		09648	4	2	712
3.22650-	1	1.14991-	1	1.62329-	2	3.89078-	3	3.84576-	5	6.75849-	59648	4
1.65236-	7	4.42149-	9						9648	4	2	713
0.0	+ 0	5.12074+	5	0	0	0	8		09648	4	2	714
3.62830-	1	1.40055-	1	3.04653-	2	9.05169-	3	2.00745-	4	2.23874-	49648	4
9.90513-	7	2.09790-	8						9648	4	2	715

0.0	+ 0	6.00000+ 5	0	0	10	09648	4	2	719	
3.85119-	1	1.58336- 1	4.48962- 2	1.56042- 2	5.79871- 4	4.88825-	49648	4	2	720
4.13346-	6	4.36900- 7	4.24626- 9	4.87416-10			9648	4	2	721
0.0	+ 0	7.00000+ 5	0	0	10	09648	4	2	722	
4.08410-	1	1.79035- 1	6.51767- 2	2.65321- 2	1.54641- 3	1.00541-	39648	4	2	723
1.26671-	5	1.46367- 6	1.73095- 8	1.82611- 9			9648	4	2	724
0.0	+ 0	8.00000+ 5	0	0	10	09648	4	2	725	
4.33106-	1	2.01178- 1	8.98340- 2	4.19879- 2	3.56025- 3	1.83309-	39648	4	2	726
3.35824-	5	4.19091- 6	5.90071- 8	5.72929- 9			9648	4	2	727
0.0	+ 0	9.00000+ 5	0	0	10	09648	4	2	728	
4.52084-	1	2.24201- 1	1.16538- 1	6.17994- 2	7.15519- 3	3.10938-	39648	4	2	729
7.78284-	5	1.04423- 5	1.71825- 7	1.59822- 8			9648	4	2	730
0.0	+ 0	1.00000+ 6	0	0	10	09648	4	2	731	
4.58202-	1	2.45957- 1	1.41070- 1	8.42754- 2	1.26154- 2	4.99344-	39648	4	2	732
1.58326-	4	2.28226- 5	4.32115- 7	4.08420- 8			9648	4	2	733
0.0	+ 0	1.05226+ 6	0	0	10	09648	4	2	734	
4.59454-	1	2.57047- 1	1.52999- 1	9.68286- 2	1.63039- 2	6.24005-	39648	4	2	735
2.20492-	4	3.29508- 5	6.68969- 7	6.43119- 8			9648	4	2	736
0.0	+ 0	1.05427+ 6	0	0	10	09648	4	2	737	
4.59701-	1	2.57494- 1	1.53515- 1	9.73438- 2	1.64651- 2	6.29411-	39648	4	2	738
2.23311-	4	3.34175- 5	6.80242- 7	6.54403- 8			9648	4	2	739
0.0	+ 0	1.08841+ 6	0	0	10	09648	4	2	740	
4.64014-	1	2.65751- 1	1.62261- 1	1.06491- 1	1.93700- 2	7.25208-	39648	4	2	741
2.75821-	4	4.22303- 5	8.98852- 7	8.75141- 8			9648	4	2	742
0.0	+ 0	1.09845+ 6	0	0	10	09648	4	2	743	
4.65490-	1	2.68333- 1	1.64880- 1	1.09282- 1	2.02917- 2	7.55346-	39648	4	2	744
2.93109-	4	4.51759- 5	9.74121- 7	9.51894- 8			9648	4	2	745
0.0	+ 0	1.13058+ 6	0	0	10	09648	4	2	746	
4.70012-	1	2.76210- 1	1.73100- 1	1.18200- 1	2.34147- 2	8.54175-	39648	4	2	747
3.54033-	4	5.56583- 5	1.25205- 6	1.23829- 7			9648	4	2	748
0.0	+ 0	1.20000+ 6	0	0	10	09648	4	2	749	
4.78382-	1	2.92714- 1	1.89690- 1	1.37702- 1	3.10062- 2	1.09748-	29648	4	2	750
5.17204-	4	8.47413- 5	2.08537- 6	2.11369- 7			9648	4	2	751
0.0	+ 0	1.40000+ 6	0	0	12	09648	4	2	752	
4.99111-	1	3.35947- 1	2.29036- 1	1.91945- 1	5.84211- 2	1.98843-	29648	4	2	753
1.29590-	3	2.28517- 4	1.05519- 5	8.22318- 7	3.25361- 8	1.13730-	99648	4	2	754
0.0	+ 0	1.60000+ 6	0	0	12	09648	4	2	755	
5.24547-	1	3.73061- 1	2.59647- 1	2.38931- 1	9.12314- 2	3.11701-	29648	4	2	756
2.64420-	3	5.23545- 4	2.85797- 5	2.57489- 6	1.22816- 7	4.92899-	99648	4	2	757
0.0	+ 0	2.00000+ 6	0	0	12	09648	4	2	758	
5.87755-	1	4.30927- 1	3.09001- 1	3.02768- 1	1.56975- 1	5.73119-	29648	4	2	759
7.47439-	3	1.83714- 3	1.34851- 4	1.64217- 5	9.85695- 7	5.48487-	89648	4	2	760
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6.55965-	1	4.83159- 1	3.62300- 1	3.38417- 1	2.16475- 1	8.85493-	29648	4	2	762
1.76634-	2	5.44706- 3	5.50285- 4	9.41605- 5	6.29276- 6	5.69632-	79648	4	2	763
0.0	+ 0	3.00000+ 6	0	0	14	09648	4	2	764	
7.02286-	1	5.28027- 1	4.10492- 1	3.55478- 1	2.52392- 1	1.15224-	19648	4	2	765
3.16197-	2	1.15873- 2	1.57521- 3	3.64476- 4	2.39471- 5	4.13005-	69648	4	2	766
2.35061-	7	2.80889- 9					9648	4	2	767
0.0	+ 0	4.00000+ 6	0	0	16	09648	4	2	768	
7.60210-	1	6.09079- 1	4.88344- 1	3.90299- 1	2.95487- 1	1.62059-	19648	4	2	769
6.39011-	2	2.96294- 2	7.42279- 3	2.28156- 3	2.11340- 4	6.54929-	59648	4	2	770
6.12105-	6	8.35361- 7	3.23429- 8	1.60090- 9			9648	4	2	771
0.0	+ 0	5.00000+ 6	0	0	16	09648	4	2	772	
7.95640-	1	6.69855- 1	5.48857- 1	4.40553- 1	3.32109- 1	2.11110-	19648	4	2	773
1.00083-	1	5.55679- 2	2.35730- 2	8.61997- 3	1.77648- 3	5.14914-	49648	4	2	774
5.74902-	5	1.03977- 5	5.20299- 7	3.02134- 8			9648	4	2	775
0.0	+ 0	6.00000+ 6	0	0	18	09648	4	2	776	
8.14638-	1	7.04197- 1	5.94365- 1	4.88757- 1	3.70789- 1	2.59659-	19648	4	2	777
1.41063-	1	8.47978- 2	4.90292- 2	2.29856- 2	7.83891- 3	2.05024-	39648	4	2	778
3.10516-	4	6.22340- 5	1.10633- 5	9.70647- 7	1.22956- 7	7.81301-	99648	4	2	779
0.0	+ 0	6.23800+ 6	0	0	18	09648	4	2	780	
8.17177-	1	7.08319- 1	6.01366- 1	4.97209- 1	3.79035- 1	2.69317-	19648	4	2	781
1.50530-	1	9.11601- 2	5.54182- 2	2.76127- 2	1.00977- 2	2.64529-	39648	4	2	782
4.35172-	4	9.19248- 5	1.71516- 5	1.63398- 6	2.14521- 7	1.40457-	89648	4	2	783
0.0	+ 0	7.00000+ 6	0	0	18	09648	4	2	784	
8.21227-	1	7.13119- 1	6.14527- 1	5.16657- 1	4.02182- 1	2.95544-	19648	4	2	785
1.80114-	1	1.11351- 1	7.66350- 2	4.54761- 2	1.96191- 2	5.53907-	39648	4	2	786
1.18420-	3	2.94863- 4	6.22671- 5	7.42927- 6	1.06973- 6	7.70305-	89648	4	2	787
0.0	+ 0	8.00000+ 6	0	0	20	09648	4	2	788	
8.20326-	1	7.06411- 1	6.16538- 1	5.29715- 1	4.26704- 1	3.24182-	19648	4	2	789
2.19713-	1	1.42212- 1	1.07730- 1	7.61124- 2	3.89217- 2	1.32765-	29648	4	2	790

3.82010-	3	1.13225-	3	2.50891-	4	4.44585-	5	8.75265-	6	9.15591-	79648	4	2	791
1.05612-	7	6.34485-	9								9648	4	2	792
0.0	+ 0	1.00000+	7		0		0	20		09648	4	2	793	
8.20261-	1	6.86957-	1	6.02324-	1	5.33265-	1	4.56002-	1	3.74912-	19648	4	2	794
2.95033-	1	2.22455-	1	1.77994-	1	1.50874-	1	1.03949-	1	5.27273-	29648	4	2	795
2.24232-	2	7.95686-	3	2.14457-	3	4.98657-	4	1.21539-	4	1.98454-	59648	4	2	796
3.18307-	6	5.44843-	7							9648	4	2	797	
0.0	+ 0	1.14166+	7		0		0	20		09648	4	2	798	
8.36014-	1	6.95906-	1	6.02292-	1	5.31632-	1	4.66517-	1	4.01421-	19648	4	2	799
3.35011-	1	2.75537-	1	2.27130-	1	1.97971-	1	1.56751-	1	9.77768-	29648	4	2	800
4.89959-	2	1.96774-	2	6.38977-	3	1.80355-	3	4.93610-	4	9.96616-	59648	4	2	801
2.00504-	5	3.89050-	6							9648	4	2	802	
0.0	+ 0	1.30000+	7		0		0	20		09648	4	2	803	
8.62535-	1	7.27456-	1	6.24268-	1	5.47738-	1	4.85892-	1	4.28209-	19648	4	2	804
3.72809-	1	3.22169-	1	2.76295-	1	2.40580-	1	2.03412-	1	1.46760-	19648	4	2	805
8.56834-	2	4.08388-	2	1.63552-	2	5.69523-	3	1.80397-	3	4.58005-	49648	4	2	806
1.18408-	4	2.49136-	5							9648	4	2	807	
0.0	+ 0	1.50000+	7		0		0	20		09648	4	2	808	
8.95932-	1	7.80834-	1	6.79029-	1	5.98259-	1	5.30465-	1	4.72729-	19648	4	2	809
4.20434-	1	3.72177-	1	3.27535-	1	2.85717-	1	2.45173-	1	1.95086-	19648	4	2	810
1.33387-	1	7.74487-	2	3.86835-	2	1.68048-	2	6.39458-	3	2.04724-	39648	4	2	811
6.04790-	4	1.49218-	4							9648	4	2	812	
0.0	+ 0	1.70000+	7		0		0	20		09648	4	2	813	
9.21473-	1	8.28033-	1	7.36311-	1	6.55786-	1	5.83608-	1	5.22437-	19648	4	2	814
4.66404-	1	4.16118-	1	3.68332-	1	3.23066-	1	2.77618-	1	2.29654-	19648	4	2	815
1.73485-	1	1.15987-	1	6.84054-	2	3.55579-	2	1.61641-	2	6.30930-	39648	4	2	816
2.17166-	3	6.44220-	4							9648	4	2	817	
0.0	+ 0	1.78990+	7		0		0	20		09648	4	2	818	
9.29775-	1	8.44303-	1	7.57782-	1	6.78802-	1	6.06418-	1	5.43713-	19648	4	2	819
4.85957-	1	4.34095-	1	3.84632-	1	3.37847-	1	2.90836-	1	2.42589-	19648	4	2	820
1.88538-	1	1.32055-	1	8.26715-	2	4.60858-	2	2.25955-	2	9.56715-	39648	4	2	821
3.53760-	3	1.13021-	3							9648	4	2	822	
0.0	+ 0	2.00000+	7		0		0	20		09648	4	2	823	
9.43010-	1	8.71359-	1	7.96096-	1	7.22709-	1	6.52640-	1	5.88056-	19648	4	2	824
5.27946-	1	4.72477-	1	4.19881-	1	3.69655-	1	3.20228-	1	2.70619-	19648	4	2	825
2.19415-	1	1.66233-	1	1.15960-	1	7.40376-	2	4.25406-	2	2.14730-	29648	4	2	826
9.43162-	3	3.59561-	3							9648	4	2	827	
										9648	4	0	828	
9.62480+	4	2.45941+	2		0		2		0	09648	4	16	829	
0.0	+ 0	2.45941+	2		0		1		0	09648	4	16	830	
0.0	+ 0	0.0	+ 0		0		0		1	29648	4	16	831	
		2	2		0		0		0	09648	4	16	832	
0.0	+ 0	6.23800+	6		0		0		1	29648	4	16	833	
		2	2		0		0		0	09648	4	16	834	
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1			9648	4	16	835	
0.0	+ 0	2.00000+	7		0		0		1	29648	4	16	836	
		2	2		0		0		0	09648	4	16	837	
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1			9648	4	16	838	
										9648	4	0	839	
9.62480+	4	2.45941+	2		0		2		0	09648	4	17	840	
0.0	+ 0	2.45941+	2		0		1		0	09648	4	17	841	
0.0	+ 0	0.0	+ 0		0		0		1	29648	4	17	842	
		2	2		0		0		0	09648	4	17	843	
0.0	+ 0	1.14166+	7		0		0		1	29648	4	17	844	
		2	2		0		0		0	09648	4	17	845	
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1			9648	4	17	846	
0.0	+ 0	2.00000+	7		0		0		1	29648	4	17	847	
		2	2		0		0		0	09648	4	17	848	
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1			9648	4	17	849	
										9648	4	0	850	
9.62480+	4	2.45941+	2		0		2		0	09648	4	18	851	
0.0	+ 0	2.45941+	2		0		1		0	09648	4	18	852	
0.0	+ 0	0.0	+ 0		0		0		1	29648	4	18	853	
		2	2		0		0		0	09648	4	18	854	
0.0	+ 0	1.00000-	5		0		0		1	29648	4	18	855	
		2	2		0		0		0	09648	4	18	856	
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1			9648	4	18	857	
0.0	+ 0	2.00000+	7		0		0		1	29648	4	18	858	
		2	2		0		0		0	09648	4	18	859	
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1			9648	4	18	860	
										9648	4	0	861	
9.62480+	4	2.45941+	2		0		2		0	09648	4	37	862	

0.0	+ 0 2.45941+ 2	0	1	0	09648 4 37	863
0.0	+ 0 0.0 + 0	0	0	1	29648 4 37	864
	2	0	0	0	09648 4 37	865
0.0	+ 0 1.78999+ 7	0	0	1	29648 4 37	866
	2	0	0	0	09648 4 37	867
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1		9648 4 37	868
0.0	+ 0 2.00000+ 7	0	0	1	29648 4 37	869
	2	0	0	0	09648 4 37	870
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1		9648 4 37	871
				9648 4 0	872	
9.62480+ 4	2.45941+ 2	0	1	0	09648 4 51	873
0.0	+ 0 2.45941+ 2	0	2	0	09648 4 51	874
0.0	+ 0 0.0 + 0	0	0	1	39648 4 51	875
	3	0	0	0	09648 4 51	876
0.0	+ 0 4.35765+ 4	0	0	2	09648 4 51	877
0.0	+ 0 0.0 + 0			9648 4 51	878	
0.0	+ 0 8.00000+ 6	0	0	18	09648 4 51	879
0.0	+ 0 1.18595- 1 0.0	+ 0 1.77674- 2 0.0	+ 0 -3.01738- 3 0.0	39648 4 51	880	
0.0	+ 0 -3.96277- 3 0.0	+ 0 -1.53322- 3 0.0	+ 0 -7.42757- 3 0.0	59648 4 51	881	
0.0	+ 0 4.72355- 6 0.0	+ 0 1.56048- 8 0.0	+ 0 2.51342- 8 0.0	89648 4 51	882	
0.0	+ 0 2.00000+ 7	0	0	20	09648 4 51	883
0.0	+ 0 1.61683- 1 0.0	+ 0 4.96521- 2 0.0	+ 0 1.40087- 2 0.0	29648 4 51	884	
0.0	+ 0 1.33376- 3 0.0	+ 0 -2.29345- 3 0.0	+ 0 -2.29981- 3 0.0	39648 4 51	885	
0.0	+ 0 -1.27682- 3 0.0	+ 0 -3.98282- 4 0.0	+ 0 -5.80039- 4 0.0	59648 4 51	886	
0.0	+ 0 4.48370- 6			9648 4 51	887	
				9648 4 0	888	
9.62480+ 4	2.45941+ 2	0	1	0	09648 4 52	889
0.0	+ 0 2.45941+ 2	0	2	0	09648 4 52	890
0.0	+ 0 0.0 + 0	0	0	1	39648 4 52	891
	3	0	0	0	09648 4 52	892
0.0	+ 0 1.44184+ 5	0	0	2	09648 4 52	893
0.0	+ 0 0.0 + 0			9648 4 52	894	
0.0	+ 0 8.00000+ 6	0	0	18	09648 4 52	895
0.0	+ 0 1.76663- 2 0.0	+ 0 -1.65734- 2 0.0	+ 0 -1.84029- 2 0.0	39648 4 52	896	
0.0	+ 0 1.95144- 3 0.0	+ 0 2.13365- 4 0.0	+ 0 -1.84612- 4 0.0	49648 4 52	897	
0.0	+ 0 -1.41774- 5 0.0	+ 0 -1.61608- 7 0.0	+ 0 -2.62713- 7 0.0	89648 4 52	898	
0.0	+ 0 2.00000+ 7	0	0	20	09648 4 52	899
0.0	+ 0 9.03079- 2 0.0	+ 0 1.17900- 3 0.0	+ 0 -8.64277- 3 0.0	39648 4 52	900	
0.0	+ 0 -4.02811- 3 0.0	+ 0 -7.18937- 5 0.0	+ 0 9.01223- 5 0.0	49648 4 52	901	
0.0	+ 0 3.93035- 4 0.0	+ 0 -2.17726- 6 0.0	+ 0 -4.45483- 6 0.0	59648 4 52	902	
0.0	+ 0 -1.43621- 5			9648 4 52	903	
				9648 4 0	904	
9.62480+ 4	2.45941+ 2	0	1	0	09648 4 53	905
0.0	+ 0 2.45941+ 2	0	2	0	09648 4 53	906
0.0	+ 0 0.0 + 0	0	0	1	39648 4 53	907
	3	0	0	0	09648 4 53	908
0.0	+ 0 2.98208+ 5	0	0	2	09648 4 53	909
0.0	+ 0 0.0 + 0			9648 4 53	910	
0.0	+ 0 8.00000+ 6	0	0	18	09648 4 53	911
0.0	+ 0 -4.79860- 2 0.0	+ 0 8.87996- 4 0.0	+ 0 2.85189- 4 0.0	39648 4 53	912	
0.0	+ 0 -1.23491- 3 0.0	+ 0 2.27318- 4 0.0	+ 0 -7.53825- 4 0.0	59648 4 53	913	
0.0	+ 0 -9.11263- 6 0.0	+ 0 -6.56973- 8 0.0	+ 0 -2.58504- 8 0.0	89648 4 53	914	
0.0	+ 0 2.00000+ 7	0	0	20	09648 4 53	915
0.0	+ 0 2.03618- 2 0.0	+ 0 -1.74821- 2 0.0	+ 0 -2.59380- 2 0.0	39648 4 53	916	
0.0	+ 0 2.35967- 3 0.0	+ 0 6.19743- 4 0.0	+ 0 -3.84455- 4 0.0	49648 4 53	917	
0.0	+ 0 -9.54031- 5 0.0	+ 0 3.53041- 5 0.0	+ 0 9.81006- 5 0.0	69648 4 53	918	
0.0	+ 0 -4.82981- 6			9648 4 53	919	
				9648 4 0	920	
9.62480+ 4	2.45941+ 2	0	1	0	09648 4 54	921
0.0	+ 0 2.45941+ 2	0	2	0	09648 4 54	922
0.0	+ 0 0.0 + 0	0	0	1	39648 4 54	923
	3	0	0	0	09648 4 54	924
0.0	+ 0 5.12074+ 5	0	0	2	09648 4 54	925
0.0	+ 0 0.0 + 0			9648 4 54	926	
0.0	+ 0 8.00000+ 6	0	0	18	09648 4 54	927
0.0	+ 0 -4.15310- 2 0.0	+ 0 8.66144- 3 0.0	+ 0 -2.39907- 3 0.0	39648 4 54	928	
0.0	+ 0 4.93831- 4 0.0	+ 0 -2.61686- 4 0.0	+ 0 -4.87510- 4 0.0	59648 4 54	929	
0.0	+ 0 -4.81362- 6 0.0	+ 0 -6.71923- 8 0.0	+ 0 -1.31650- 8 0.0	89648 4 54	930	
0.0	+ 0 2.00000+ 7	0	0	20	09648 4 54	931
0.0	+ 0 -3.48527- 2 0.0	+ 0 -7.26213- 3 0.0	+ 0 4.45130- 3 0.0	39648 4 54	932	
0.0	+ 0 -2.53370- 4 0.0	+ 0 -5.17149- 4 0.0	+ 0 1.43621- 4 0.0	49648 4 54	933	
0.0	+ 0 2.94789- 5 0.0	+ 0 -3.65474- 5 0.0	+ 0 -1.07885- 5 0.0	59648 4 54	934	

0.0	+ 0 -3.36271- 6					9648 4 54 935
						9648 4 0 936
9.62480+	4 2.45941+ 2	0	1	0		09648 4 55 937
0.0	+ 0 2.45941+ 2	0	2	0		09648 4 55 938
0.0	+ 0 0.0 + 0	0	0	1		39648 4 55 939
	3	2	0	0		09648 4 55 940
0.0	+ 0 1.05226+ 6	0	0	2		09648 4 55 941
0.0	+ 0 0.0 + 0					9648 4 55 942
0.0	+ 0 8.00000+ 6	0	0	18		09648 4 55 943
0.0	+ 0 1.13759- 1 0.0	+ 0 1.58333- 2 0.0	+ 0 -3.14558- 39648 4 55 944			
0.0	+ 0 -3.49330- 3 0.0	+ 0 -1.38591- 3 0.0	+ 0 -2.99653- 59648 4 55 945			
0.0	+ 0 2.09282- 6 0.0	+ 0 1.51373- 8 0.0	+ 0 9.60709- 99648 4 55 946			
0.0	+ 0 2.00000+ 7	0	0	20		09648 4 55 947
0.0	+ 0 1.60405- 1 0.0	+ 0 4.86029- 2 0.0	+ 0 1.33160- 29648 4 55 948			
0.0	+ 0 9.76839- 4 0.0	+ 0 -2.39224- 3 0.0	+ 0 -2.25019- 39648 4 55 949			
0.0	+ 0 -1.19013- 3 0.0	+ 0 -3.36639- 4 0.0	+ 0 -4.27955- 59648 4 55 950			
						9648 4 55 951
0.0	+ 0 5.19900- 6					9648 4 0 952
9.62480+	4 2.45941+ 2	0	1	0		09648 4 56 953
0.0	+ 0 2.45941+ 2	0	2	0		09648 4 56 954
0.0	+ 0 0.0 + 0	0	0	1		39648 4 56 955
	3	2	0	0		09648 4 56 956
0.0	+ 0 1.05427+ 6	0	0	2		09648 4 56 957
0.0	+ 0 0.0 + 0					9648 4 56 958
0.0	+ 0 8.00000+ 6	0	0	18		09648 4 56 959
0.0	+ 0 1.59458- 1 0.0	+ 0 4.83009- 2 0.0	+ 0 1.43702- 29648 4 56 960			
0.0	+ 0 3.16284- 3 0.0	+ 0 4.27216- 4 0.0	+ 0 6.07671- 59648 4 56 961			
0.0	+ 0 -6.10969- 6 0.0	+ 0 3.70292- 8 0.0	+ 0 -3.33310- 119648 4 56 962			
0.0	+ 0 2.00000+ 7	0	0	20		09648 4 56 963
0.0	+ 0 1.93611- 1 0.0	+ 0 7.94284- 2 0.0	+ 0 3.75235- 29648 4 56 964			
0.0	+ 0 1.78116- 2 0.0	+ 0 7.83132- 3 0.0	+ 0 2.86627- 39648 4 56 965			
0.0	+ 0 7.10483- 4 0.0	+ 0 1.06581- 5 0.0	+ 0 -3.95272- 59648 4 56 966			
						9648 4 56 967
0.0	+ 0 -7.73280- 6					9648 4 0 968
9.62480+	4 2.45941+ 2	0	1	0		09648 4 57 969
0.0	+ 0 2.45941+ 2	0	2	0		09648 4 57 970
0.0	+ 0 0.0 + 0	0	0	1		39648 4 57 971
	3	2	0	0		09648 4 57 972
0.0	+ 0 1.08841+ 6	0	0	2		09648 4 57 973
0.0	+ 0 0.0 + 0					9648 4 57 974
0.0	+ 0 8.00000+ 6	0	0	18		09648 4 57 975
0.0	+ 0 1.98153- 1 0.0	+ 0 8.40908- 2 0.0	+ 0 4.00839- 29648 4 57 976			
0.0	+ 0 1.88620- 2 0.0	+ 0 7.01819- 3 0.0	+ 0 2.51853- 39648 4 57 977			
0.0	+ 0 8.37276- 5 0.0	+ 0 1.07309- 6 0.0	+ 0 1.36484- 79648 4 57 978			
0.0	+ 0 2.00000+ 7	0	0	20		09648 4 57 979
0.0	+ 0 2.16781- 1 0.0	+ 0 1.03034- 1 0.0	+ 0 5.88402- 29648 4 57 980			
0.0	+ 0 3.56582- 2 0.0	+ 0 2.16972- 2 0.0	+ 0 1.27336- 29648 4 57 981			
0.0	+ 0 6.82550- 3 0.0	+ 0 3.13913- 3 0.0	+ 0 9.74753- 49648 4 57 982			
						9648 4 57 983
0.0	+ 0 2.22425- 4					9648 4 0 984
9.62480+	4 2.45941+ 2	0	1	0		09648 4 58 985
0.0	+ 0 2.45941+ 2	0	2	0		09648 4 58 986
0.0	+ 0 0.0 + 0	0	0	1		39648 4 58 987
	3	2	0	0		09648 4 58 988
0.0	+ 0 1.09845+ 6	0	0	2		09648 4 58 989
0.0	+ 0 0.0 + 0					9648 4 58 990
0.0	+ 0 8.00000+ 6	0	0	18		09648 4 58 991
0.0	+ 0 5.73337- 2 0.0	+ 0 -7.78565- 3 0.0	+ 0 -5.03444- 39648 4 58 992			
0.0	+ 0 -4.31437- 4 0.0	+ 0 4.11168- 4 0.0	+ 0 1.63346- 49648 4 58 993			
0.0	+ 0 4.15536- 6 0.0	+ 0 1.09283- 7 0.0	+ 0 1.32442- 99648 4 58 994			
0.0	+ 0 2.00000+ 7	0	0	20		09648 4 58 995
0.0	+ 0 1.24865- 1 0.0	+ 0 2.13268- 2 0.0	+ 0 -2.34635- 39648 4 58 996			
0.0	+ 0 -5.24263- 3 0.0	+ 0 -2.87878- 3 0.0	+ 0 -5.75851- 49648 4 58 997			
0.0	+ 0 3.75254- 4 0.0	+ 0 3.22991- 4 0.0	+ 0 1.03828- 49648 4 58 998			
						9648 4 58 999
0.0	+ 0 1.88120- 5					9648 4 0 1000
9.62480+	4 2.45941+ 2	0	2	0		09648 4 91 1001
0.0	+ 0 2.45941+ 2	0	1	0		09648 4 91 1002
0.0	+ 0 0.0 + 0	0	0	1		29648 4 91 1003
	2	2	0	0		09648 4 91 1004
0.0	+ 0 1.13058+ 6	0	0	1		29648 4 91 1005
	2	2	0	0		09648 4 91 1006

-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1			9648	4	91	1007
0.0 + 0	2.00000+ 7	0	0	1		29648	4	91	1008
2	2	0	0	0		09648	4	91	1009
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1			9648	4	91	1010
						9648	4	0	1011
						9648	0	0	1012
9.62480+ 4	2.45941+ 2	0	0	2		09648	5	16	1013
6.23800+ 6	0.0 + 0	0	9	1		29648	5	16	1014
2	2	0	0	0		09648	5	16	1015
6.23800+ 6	5.00000- 1	2.00000+ 7	5.00000- 1			9648	5	16	1016
0.0 + 0	0.0 + 0	0	0	1		89648	5	16	1017
8	2	0	0	0		09648	5	16	1018
6.23800+ 6	4.36953+ 5	8.00000+ 6	5.10183+ 5	1.00000+ 7	5.81878+ 59648	5	16	1019	
1.20000+ 7	6.45421+ 5	1.40000+ 7	7.03089+ 5	1.60000+ 7	7.56260+ 59648	5	16	1020	
1.80000+ 7	8.05847+ 5	2.00000+ 7	8.52489+ 5			9648	5	16	1021
6.23800+ 6	0.0 + 0	0	9	1		29648	5	16	1022
2	2	0	0	0		09648	5	16	1023
6.23800+ 6	5.00000- 1	2.00000+ 7	5.00000- 1			9648	5	16	1024
0.0 + 0	0.0 + 0	0	0	1		89648	5	16	1025
8	2	0	0	0		09648	5	16	1026
6.23800+ 6	4.13194+ 5	8.00000+ 6	4.13194+ 5	1.00000+ 7	4.13194+ 59648	5	16	1027	
1.20000+ 7	3.98292+ 5	1.40000+ 7	4.83330+ 5	1.60000+ 7	5.55517+ 59648	5	16	1028	
1.80000+ 7	6.19336+ 5	2.00000+ 7	6.77169+ 5			9648	5	16	1029
						9648	5	0	1030
9.62480+ 4	2.45941+ 2	0	0	3		09648	5	17	1031
1.14166+ 7	0.0 + 0	0	9	1		29648	5	17	1032
2	2	0	0	0		09648	5	17	1033
1.14166+ 7	3.33333- 1	2.00000+ 7	3.33333- 1			9648	5	17	1034
0.0 + 0	0.0 + 0	0	0	1		69648	5	17	1035
6	2	0	0	0		09648	5	17	1036
1.14166+ 7	6.27571+ 5	1.20000+ 7	6.45421+ 5	1.40000+ 7	7.03089+ 59648	5	17	1037	
1.60000+ 7	7.56260+ 5	1.80000+ 7	8.05847+ 5	2.00000+ 7	8.52489+ 59648	5	17	1038	
1.14166+ 7	0.0 + 0	0	9	1		29648	5	17	1039
2	2	0	0	0		09648	5	17	1040
1.14166+ 7	3.33333- 1	2.00000+ 7	3.33333- 1			9648	5	17	1041
0.0 + 0	0.0 + 0	0	0	1		69648	5	17	1042
6	2	0	0	0		09648	5	17	1043
1.14166+ 7	4.32049+ 5	1.20000+ 7	4.42335+ 5	1.40000+ 7	4.94371+ 59648	5	17	1044	
1.60000+ 7	5.57845+ 5	1.80000+ 7	6.19818+ 5	2.00000+ 7	6.77274+ 59648	5	17	1045	
1.14166+ 7	0.0 + 0	0	9	1		29648	5	17	1046
2	2	0	0	0		09648	5	17	1047
1.14166+ 7	3.33333- 1	2.00000+ 7	3.33333- 1			9648	5	17	1048
0.0 + 0	0.0 + 0	0	0	1		69648	5	17	1049
6	2	0	0	0		09648	5	17	1050
1.14166+ 7	4.15289+ 5	1.20000+ 7	4.15289+ 5	1.40000+ 7	4.15289+ 59648	5	17	1051	
1.60000+ 7	4.15289+ 5	1.80000+ 7	4.15289+ 5	2.00000+ 7	4.32175+ 59648	5	17	1052	
						9648	5	0	1053
9.62480+ 4	2.45941+ 2	0	0	1		09648	5	18	1054
-2.00000+ 7	0.0 + 0	0	7	1		29648	5	18	1055
2	2	0	0	0		09648	5	18	1056
1.00000- 5	1.00000+ 0	2.00000+ 7	1.00000+ 0			9648	5	18	1057
0.0 + 0	0.0 + 0	0	0	1		29648	5	18	1058
2	2	0	0	0		09648	5	18	1059
1.00000- 5	1.38000+ 6	2.00000+ 7	1.38000+ 6			9648	5	18	1060
						9648	5	0	1061
9.62480+ 4	2.45941+ 2	0	0	4		09648	5	37	1062
1.78999+ 7	0.0 + 0	0	9	1		29648	5	37	1063
2	2	0	0	0		09648	5	37	1064
1.78999+ 7	2.50000- 1	2.00000+ 7	2.50000- 1			9648	5	37	1065
0.0 + 0	0.0 + 0	0	0	1		39648	5	37	1066
3	2	0	0	0		09648	5	37	1067
1.78999+ 7	8.03440+ 5	1.80000+ 7	8.05847+ 5	2.00000+ 7	8.52489+ 59648	5	37	1068	
1.78999+ 7	0.0 + 0	0	9	1		29648	5	37	1069
2	2	0	0	0		09648	5	37	1070
1.78999+ 7	2.50000- 1	2.00000+ 7	2.50000- 1			9648	5	37	1071
0.0 + 0	0.0 + 0	0	0	1		39648	5	37	1072
3	2	0	0	0		09648	5	37	1073
1.78999+ 7	6.65608+ 5	1.80000+ 7	6.66612+ 5	2.00000+ 7	6.95040+ 59648	5	37	1074	
1.78999+ 7	0.0 + 0	0	9	1		29648	5	37	1075
2	2	0	0	0		09648	5	37	1076
1.78999+ 7	2.50000- 1	2.00000+ 7	2.50000- 1			9648	5	37	1077
0.0 + 0	0.0 + 0	0	0	1		39648	5	37	1078

3	2	0	0	0	0	09648	5	37	1079					
1.78999+	7	4.74432+	5	1.80000+	7	4.74900+	5	2.00000+	7	4.92257+	59648	5	37	1080
1.78999+	7	0.0	+ 0	0	9	1					29648	5	37	1081
2	2	0	0	0	0	0	09648	5	37	1082				
1.78999+	7	2.50000-	1	2.00000+	7	2.50000-	1				9648	5	37	1083
0.0	+ 0	0.0	+ 0	0	0	1	39648	5	37	1084				
3	2	0	0	0	0	0	09648	5	37	1085				
1.78999+	7	4.14810+	5	1.80000+	7	4.14810+	5	2.00000+	7	4.14810+	59648	5	37	1086
							9648	5	0	1087				
9.62480+	4	2.45941+	2		0	0	1	09648	5	91	1088			
1.13058+	6	0.0	+ 0	0	9	1	29648	5	91	1089				
2	2	0	0	0	0	0	09648	5	91	1090				
1.13058+	6	1.00000+	0	2.00000+	7	1.00000+	0				9648	5	91	1091
0.0	+ 0	0.0	+ 0	0	0	1	119648	5	91	1092				
11	2	0	0	0	0	0	09648	5	91	1093				
1.13058+	6	4.10596+	5	2.00000+	6	4.10596+	5	4.00000+	6	4.10596+	59648	5	91	1094
6.00000+	6	4.26053+	5	8.00000+	6	5.10183+	5	1.00000+	7	5.81878+	59648	5	91	1095
1.20000+	7	6.45421+	5	1.40000+	7	7.03089+	5	1.60000+	7	7.56260+	59648	5	91	1096
1.80000+	7	8.05847+	5	2.00000+	7	8.52489+	5				9648	5	91	1097
							9648	5	0	1098				
							9648	0	0	1099				
							0	0	0	1100				
							-1	0	0	0				

CM-249					0	0
9.62490+ 4	2.46936+ 2	1	1	0	09649	1451
0.0 + 0 0.0	+ 0	0	0	0	09649	1451
0.0 + 0 0.0	+ 0	0	0	97	399649	1451
96-CM-249 JAERI	EVAL-MAR84 Y.KIKUCHI AND T.NAKAGAWA				9649	1451
JAERI-M84-116	DIST-				9649	1451
HISTORY					9649	1451
84-03 NEW EVALUATION FOR JENDL-3 WAS MADE BY Y.KIKUCHI AND					9649	1451
T.NAKAGAWA (JAERI).	DETAILS ARE GIVEN IN REF. /1/.				9649	1451
MF=1 GENERAL INFORMATION					9649	1451
MT=451 COMMENTS AND DICTIONARY					9649	1451
MT=452 NUMBER OF NEUTRONS PER FISSION					9649	1451
SEMI-EMPIRICAL FORMULA BY HOWERTON /2/.					9649	1451
MT=455 DELAYED NEUTRON DATA					9649	1451
SEMI-EMPIRICAL FORMULA BY TUTTLE /3/.					9649	1451
MF=2,MT=151 RESONANCE PARAMETERS					9649	1451
RESOLVED RESONANCES : NOT GIVEN					9649	1451
UNRESOLVED RESONANCES : 4.15 EV - 30 KEV					9649	1451
OBTAINED FROM OPTICAL MODEL CALCULATION:					9649	1451
SO=1.08E-4 , S1=3.95E-4 , S2=1.04E-4 , R=8.8 FM.					9649	1451
ESTIMATED FROM LEVEL DENSITY PARAMETERS AND SYSTEMATICS					9649	1451
DOBS=8.3 EV, GAM-G=40 MILLI-EV					9649	1451
GAM-F OBTAINED BY FITTING THE ESTIMATED SIG-FIS					9649	1451
CALCULATED RESONANCE INTEGRALS					9649	1451
FISSION 139 B					9649	1451
CAPTURE 215 B					9649	1451
MF=3 NEUTRON CROSS SECTIONS					9649	1451
BELLOW 4.3 EV : POINT-WISE DATA					9649	1451
SIG-C OBTAINED FROM MEASUREMENTS BY DIAMOND /4/.					9649	1451
SIG-F ESTIMATED BY RATIO TO SIG-C IN UNRESOLVED RESONANCE					9649	1451
REGION.					9649	1451
2200 M/S CROSS SECTIONS					9649	1451
TOTAL 13.22 B					9649	1451
ELASTIC 10.8 B					9649	1451
FISSION 0.82 B					9649	1451
CAPTURE 1.6 B					9649	1451
BETWEEN 4.3 EV AND 30 KEV : NO BACKGROUND CROSS SECTION GIVEN.					9649	1451
ABOVE 30 KEV :					9649	1451
MT=1,2,4,51-57,91,102,251 SIG-T,SIG-EL,SIG-IN,SIG-C,MU-BAR					9649	1451
CALCULATED WITH OPTICAL AND STATISTICAL MODELS.					9649	1451
OPTICAL POTENTIAL PARAMETERS WERE OBTAINED BY FITTING THE					9649	1451
TOTAL CROSS SECTION OF PHILLIPS AND HOWE /5/ FOR AM-241:					9649	1451
V = 43.4 - 0.107*EN (MEV)					9649	1451
WS= 6.95 - 0.339*EN + 0.0531*EN**2 (MEV)					9649	1451
WV= 0 , VSO = 7.0 (MEV)					9649	1451
R = RSD = 1.282 , RS = 1.29 (FM)					9649	1451
A = ASO = 0.60 , B = 0.5 (FM)					9649	1451
STATISTICAL MODEL CALCULATION WITH CASTHY CODE /6/.					9649	1451
COMPETING PROCESSES : FISSION,(N,2N),(N,3N),(N,4N).					9649	1451
LEVEL FLUCTUATION CONSIDERED.					9649	1451
THE LEVEL SCHEME TAKEN FROM REF. /7/.					9649	1451
NO. ENERGY(KEV) SPIN-PARITY					9649	1451
G.S. 0 1/2 +					9649	1451
1 26.22 3/2 +					9649	1451
2 42.4 5/2 +					9649	1451
3 52.18 7/2 +					9649	1451
4 110 9/2 +					9649	1451
5 110.1 7/2 +					9649	1451
6 146 9/2 +					9649	1451
7 208 3/2 +					9649	1451
CONTINUUM LEVELS ASSUMED ABOVE 220 KEV.					9649	1451
THE LEVEL DENSITY PARAMETERS : GILBERT AND CAMERON /8/.					9649	1451
GAMMA-RAY STRENGTH FUNCTION OF 4.8E-4 DEDUCED FROM					9649	1451
UNRESOLVED RESONANCE PARAMETERS.					9649	1451
					9649	1451

MT=16,17,37	(N,2N),(N,3N),(N,4N)		9649	1451	72
	CALCULATED WITH EVAPORATION MODEL.		9649	1451	73
MT=18	FISSION		9649	1451	74
	ESTIMATED AS 0.95 * SIG-F(CM-247) BY USING SYSTEMATICS OF BEHRENS AND HOWERTON /9/.		9649	1451	75
MF=4	ANGULAR DISTRIBUTIONS OF SECONDARY NEUTRONS		9649	1451	79
MT=2,51-57	CALCULATED WITH OPTICAL MODEL.		9649	1451	80
MT=16,17,18,37,91	ISOTROPIC IN THE LABORATORY SYSTEM.		9649	1451	81
			9649	1451	82
MF=5	ENERGY DISTRIBUTIONS OF SECONDARY NEUTRONS		9649	1451	83
MT=16,17,37,91	EVAPORATION SPECTRUM.		9649	1451	84
MT=18	MAXWELLIAN FISSION SPECTRUM.		9649	1451	85
	TEMPERATURE ESTIMATED FROM SYSTEMATICS OF SMITH+ /10/.		9649	1451	86
			9649	1451	87
			9649	1451	88
REFERENCES			9649	1451	89
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			9649	1451	100
1	451	139	9649	1451	101
1	452	3	9649	1451	102
1	455	7	9649	1451	103
2	151	279	9649	1451	104
3	1	47	9649	1451	105
3	2	43	9649	1451	106
3	4	15	9649	1451	107
3	16	10	9649	1451	108
3	17	7	9649	1451	109
3	18	16	9649	1451	110
3	37	5	9649	1451	111
3	51	15	9649	1451	112
3	52	14	9649	1451	113
3	53	13	9649	1451	114
3	54	12	9649	1451	115
3	55	12	9649	1451	116
3	56	12	9649	1451	117
3	57	11	9649	1451	118
3	91	10	9649	1451	119
3	102	16	9649	1451	120
3	251	16	9649	1451	121
4	2	191	9649	1451	122
4	16	10	9649	1451	123
4	17	10	9649	1451	124
4	18	10	9649	1451	125
4	37	10	9649	1451	126
4	51	20	9649	1451	127
4	52	20	9649	1451	128
4	53	20	9649	1451	129
4	54	20	9649	1451	130
4	55	20	9649	1451	131
4	56	20	9649	1451	132
4	57	20	9649	1451	133
4	91	10	9649	1451	134
5	16	17	9649	1451	135
5	17	22	9649	1451	136
5	18	7	9649	1451	137
5	37	25	9649	1451	138
5	91	10	9649	1451	139
			9649	1 0	140
9.62490+ 4 2.46936+ 2	0	1	09649	1452	141
0.0 + 0 0.0 + 0	0	0	09649	1452	142

3.32000+ 0	2.14000- 7						9649	1452	143
							9649	1	0
9.62490+ 4	2.46936+ 2	0	2	0			09649	1455	145
0.0 + 0 0.0 + 0		0	0	6			09649	1455	146
1.32000- 2	3.21000- 2	1.39000- 1	3.58000- 1	1.41000+ 0	4.02000+ 0		09649	1455	147
0.0 + 0 0.0 + 0		0	0	1			49649	1455	148
4	2	0	0	0			09649	1455	149
1.00000- 5	2.88000- 2	5.00000+ 6	2.88000- 2	7.00000+ 6	1.96000- 29649	1455	150		
2.00000+ 7	1.96000- 2						9649	1455	151
							9649	1	0
							9649	0	152
							9649	0	153
9.62490+ 4	2.46936+ 2	0	0	1			09649	2151	154
9.62490+ 4	1.00000+ 0	0	1	1			09649	2151	155
4.15000+ 0	3.00000+ 4	2	2	0			09649	2151	156
5.00000- 1	8.79570- 1	0	0	3			09649	2151	157
2.46936+ 2 0.0 + 0		0	0	2			09649	2151	158
0.0 + 0 0.0 + 0		2	0	198			329649	2151	159
0.0 + 0 0.0 + 0	1.00000+ 0	1.00000+ 0	0.0 + 0	1.00000+ 0	0.0 + 0		09649	2151	160
4.15000+ 0	3.32000+ 1	0.0 + 0	3.57050- 3	4.00000- 2	4.07170+ 0	09649	2151	161	
5.00000+ 0	3.32000+ 1	0.0 + 0	3.57050- 3	4.00000- 2	4.07170+ 0	09649	2151	162	
6.00000+ 0	3.32000+ 1	0.0 + 0	3.57050- 3	4.00000- 2	4.07170+ 0	09649	2151	163	
8.00000+ 0	3.31990+ 1	0.0 + 0	3.57050- 3	4.00000- 2	4.07170+ 0	09649	2151	164	
1.00000+ 1	3.31990+ 1	0.0 + 0	3.57050- 3	4.00000- 2	4.07170+ 0	09649	2151	165	
1.50000+ 1	3.31990+ 1	0.0 + 0	3.57040- 3	4.00000- 2	4.07170+ 0	09649	2151	166	
2.00000+ 1	3.31980+ 1	0.0 + 0	3.57040- 3	4.00000- 2	4.07170+ 0	09649	2151	167	
3.00000+ 1	3.31980+ 1	0.0 + 0	3.57030- 3	4.00000- 2	4.07170+ 0	09649	2151	168	
4.00000+ 1	3.31970+ 1	0.0 + 0	3.57020- 3	4.00000- 2	4.07170+ 0	09649	2151	169	
5.00000+ 1	3.31960+ 1	0.0 + 0	3.57010- 3	4.00000- 2	4.07170+ 0	09649	2151	170	
6.00000+ 1	3.31960+ 1	0.0 + 0	3.57010- 3	4.00000- 2	4.07170+ 0	09649	2151	171	
8.00000+ 1	3.31940+ 1	0.0 + 0	3.56990- 3	4.00000- 2	4.07170+ 0	09649	2151	172	
1.00000+ 2	3.31930+ 1	0.0 + 0	3.56980- 3	4.00000- 2	4.07170+ 0	09649	2151	173	
1.50000+ 2	3.31890+ 1	0.0 + 0	3.56940- 3	4.00000- 2	4.07170+ 0	09649	2151	174	
2.00000+ 2	3.31860+ 1	0.0 + 0	3.56900- 3	4.00000- 2	4.07170+ 0	09649	2151	175	
3.00000+ 2	3.31790+ 1	0.0 + 0	3.56830- 3	4.00000- 2	4.07170+ 0	09649	2151	176	
4.00000+ 2	3.31720+ 1	0.0 + 0	3.56750- 3	4.00000- 2	4.07170+ 0	09649	2151	177	
5.00000+ 2	3.31650+ 1	0.0 + 0	3.56680- 3	4.00000- 2	4.07170+ 0	09649	2151	178	
6.00000+ 2	3.31570+ 1	0.0 + 0	3.56590- 3	4.00000- 2	4.07170+ 0	09649	2151	179	
8.00000+ 2	3.31430+ 1	0.0 + 0	3.56440- 3	4.00000- 2	4.07170+ 0	09649	2151	180	
1.00000+ 3	3.31290+ 1	0.0 + 0	3.56290- 3	4.00000- 2	4.07170+ 0	09649	2151	181	
1.50000+ 3	3.30940+ 1	0.0 + 0	3.55910- 3	4.00000- 2	4.07170+ 0	09649	2151	182	
2.00000+ 3	3.30590+ 1	0.0 + 0	3.55540- 3	4.00000- 2	4.07170+ 0	09649	2151	183	
3.00000+ 3	3.29880+ 1	0.0 + 0	3.54780- 3	4.00000- 2	4.07170+ 0	09649	2151	184	
4.00000+ 3	3.29180+ 1	0.0 + 0	3.54020- 3	4.00000- 2	4.07170+ 0	09649	2151	185	
5.00000+ 3	3.28480+ 1	0.0 + 0	3.53270- 3	4.00000- 2	4.07170+ 0	09649	2151	186	
6.00000+ 3	3.27780+ 1	0.0 + 0	3.52520- 3	4.00000- 2	4.07170+ 0	09649	2151	187	
8.00000+ 3	3.26390+ 1	0.0 + 0	3.51020- 3	4.00000- 2	4.07170+ 0	09649	2151	188	
1.00000+ 4	3.25000+ 1	0.0 + 0	3.49530- 3	4.00000- 2	4.07170+ 0	09649	2151	189	
1.50000+ 4	3.21560+ 1	0.0 + 0	3.45820- 3	4.00000- 2	4.07170+ 0	09649	2151	190	
2.00000+ 4	3.18150+ 1	0.0 + 0	3.42160- 3	4.00000- 2	4.07170+ 0	09649	2151	191	
3.00000+ 4	3.11460+ 1	3.58820- 6	3.34960- 3	4.00000- 2	4.07170+ 0	09649	2151	192	
1.00000+ 0	0.0 + 0	2	0	198			329649	2151	193
0.0 + 0 0.0 + 0	1.00010+ 0	1.00000+ 0	0.0 + 0	1.00000+ 0	0.0 + 0		09649	2151	194
4.15000+ 0	1.10670+ 1	0.0 + 0	1.19020- 3	4.00000- 2	7.68250- 39649	2151			
5.00000+ 0	1.10670+ 1	0.0 + 0	1.19020- 3	4.00000- 2	7.68250- 39649	2151			
6.00000+ 0	1.10670+ 1	0.0 + 0	1.19020- 3	4.00000- 2	7.68250- 39649	2151			
8.00000+ 0	1.10660+ 1	0.0 + 0	1.19020- 3	4.00000- 2	7.68250- 39649	2151			
1.00000+ 1	1.10660+ 1	0.0 + 0	1.19020- 3	4.00000- 2	7.68250- 39649	2151			
1.50000+ 1	1.10660+ 1	0.0 + 0	1.19010- 3	4.00000- 2	7.68250- 39649	2151			
2.00000+ 1	1.10660+ 1	0.0 + 0	1.19010- 3	4.00000- 2	7.68250- 39649	2151			
3.00000+ 1	1.10660+ 1	0.0 + 0	1.19010- 3	4.00000- 2	7.68250- 39649	2151			
4.00000+ 1	1.10660+ 1	0.0 + 0	1.19010- 3	4.00000- 2	7.68250- 39649	2151			
5.00000+ 1	1.10650+ 1	0.0 + 0	1.19000- 3	4.00000- 2	7.68250- 39649	2151			
6.00000+ 1	1.10650+ 1	0.0 + 0	1.19000- 3	4.00000- 2	7.68250- 39649	2151			
8.00000+ 1	1.10650+ 1	0.0 + 0	1.19000- 3	4.00000- 2	7.68250- 39649	2151			
1.00000+ 2	1.10640+ 1	0.0 + 0	1.18990- 3	4.00000- 2	7.68250- 39649	2151			
1.50000+ 2	1.10630+ 1	0.0 + 0	1.18980- 3	4.00000- 2	7.68250- 39649	2151			
2.00000+ 2	1.10620+ 1	0.0 + 0	1.18970- 3	4.00000- 2	7.68250- 39649	2151			
3.00000+ 2	1.10600+ 1	0.0 + 0	1.18940- 3	4.00000- 2	7.68250- 39649	2151			
4.00000+ 2	1.10570+ 1	0.0 + 0	1.18920- 3	4.00000- 2	7.68250- 39649	2151			
5.00000+ 2	1.10550+ 1	0.0 + 0	1.18890- 3	4.00000- 2	7.68250- 39649	2151			
6.00000+ 2	1.10520+ 1	0.0 + 0	1.18860- 3	4.00000- 2	7.68250- 39649	2151			
8.00000+ 2	1.10480+ 1	0.0 + 0	1.18810- 3	4.00000- 2	7.68250- 39649	2151			

1.00000+	3	1.10430+	1	0.0	+ 0	1.18760-	3	4.00000-	2	7.68250-	39649	2151	215
1.50000+	3	1.10310+	1	0.0	+ 0	1.18640-	3	4.00000-	2	7.68250-	39649	2151	216
2.00000+	3	1.10200+	1	0.0	+ 0	1.18510-	3	4.00000-	2	7.68250-	39649	2151	217
3.00000+	3	1.09960+	1	0.0	+ 0	1.18260-	3	4.00000-	2	7.68250-	39649	2151	218
4.00000+	3	1.09730+	1	0.0	+ 0	1.18010-	3	4.00000-	2	7.68250-	39649	2151	219
5.00000+	3	1.09490+	1	0.0	+ 0	1.17760-	3	4.00000-	2	7.68250-	39649	2151	220
6.00000+	3	1.09260+	1	0.0	+ 0	1.17510-	3	4.00000-	2	7.68250-	39649	2151	221
8.00000+	3	1.08800+	1	0.0	+ 0	1.17010-	3	4.00000-	2	7.68250-	39649	2151	222
1.00000+	4	1.08330+	1	0.0	+ 0	1.16510-	3	4.00000-	2	7.68250-	39649	2151	223
1.50000+	4	1.07190+	1	0.0	+ 0	1.15270-	3	4.00000-	2	7.68250-	39649	2151	224
2.00000+	4	1.06050+	1	0.0	+ 0	1.14050-	3	4.00000-	2	7.68250-	39649	2151	225
3.00000+	4	1.03820+	1	6.76780-	-2	1.11650-	3	4.00000-	2	7.68250-	39649	2151	226
2.46936+	2	0.0	+ 0		1	0		3		09649	2151	227	
0.0	+ 0	0.0	+ 0		2	0	198		329649	2151	228		
0.0	+ 0	0.0	+ 0	1.00000+	0	1.00000+	0	0.0	+ 0	1.00000+	09649	2151	229
4.15000+	0	3.32000+	1	0.0	+ 0	1.31140-	-2	4.00000-	2	0.0	+ 09649	2151	230
5.00000+	0	3.32000+	1	0.0	+ 0	1.31140-	-2	4.00000-	2	0.0	+ 09649	2151	231
6.00000+	0	3.32000+	1	0.0	+ 0	1.31140-	-2	4.00000-	2	0.0	+ 09649	2151	232
8.00000+	0	3.31990+	1	0.0	+ 0	1.31140-	-2	4.00000-	2	0.0	+ 09649	2151	233
1.00000+	1	3.31990+	1	0.0	+ 0	1.31140-	-2	4.00000-	2	0.0	+ 09649	2151	234
1.50000+	1	3.31990+	1	0.0	+ 0	1.31140-	-2	4.00000-	2	0.0	+ 09649	2151	235
2.00000+	1	3.31980+	1	0.0	+ 0	1.31140-	-2	4.00000-	2	0.0	+ 09649	2151	236
3.00000+	1	3.31980+	1	0.0	+ 0	1.31140-	-2	4.00000-	2	0.0	+ 09649	2151	237
4.00000+	1	3.31970+	1	0.0	+ 0	1.31130-	-2	4.00000-	2	0.0	+ 09649	2151	238
5.00000+	1	3.31960+	1	0.0	+ 0	1.31130-	-2	4.00000-	2	0.0	+ 09649	2151	239
6.00000+	1	3.31960+	1	0.0	+ 0	1.31130-	-2	4.00000-	2	0.0	+ 09649	2151	240
8.00000+	1	3.31940+	1	0.0	+ 0	1.31120-	-2	4.00000-	2	0.0	+ 09649	2151	241
1.00000+	2	3.31930+	1	0.0	+ 0	1.31120-	-2	4.00000-	2	0.0	+ 09649	2151	242
1.50000+	2	3.31890+	1	0.0	+ 0	1.31100-	-2	4.00000-	2	0.0	+ 09649	2151	243
2.00000+	2	3.31860+	1	0.0	+ 0	1.31090-	-2	4.00000-	2	0.0	+ 09649	2151	244
3.00000+	2	3.31790+	1	0.0	+ 0	1.31060-	-2	4.00000-	2	0.0	+ 09649	2151	245
4.00000+	2	3.31720+	1	0.0	+ 0	1.31030-	-2	4.00000-	2	0.0	+ 09649	2151	246
5.00000+	2	3.31650+	1	0.0	+ 0	1.31010-	-2	4.00000-	2	0.0	+ 09649	2151	247
6.00000+	2	3.31570+	1	0.0	+ 0	1.30980-	-2	4.00000-	2	0.0	+ 09649	2151	248
8.00000+	2	3.31430+	1	0.0	+ 0	1.30920-	-2	4.00000-	2	0.0	+ 09649	2151	249
1.00000+	3	3.31290+	1	0.0	+ 0	1.30870-	-2	4.00000-	2	0.0	+ 09649	2151	250
1.50000+	3	3.30940+	1	0.0	+ 0	1.30730-	-2	4.00000-	2	0.0	+ 09649	2151	251
2.00000+	3	3.30590+	1	0.0	+ 0	1.30590-	-2	4.00000-	2	0.0	+ 09649	2151	252
3.00000+	3	3.29880+	1	0.0	+ 0	1.30310-	-2	4.00000-	2	0.0	+ 09649	2151	253
4.00000+	3	3.29180+	1	0.0	+ 0	1.303030-	-2	4.00000-	2	0.0	+ 09649	2151	254
5.00000+	3	3.28480+	1	0.0	+ 0	1.29750-	-2	4.00000-	2	0.0	+ 09649	2151	255
6.00000+	3	3.27780+	1	0.0	+ 0	1.29480-	-2	4.00000-	2	0.0	+ 09649	2151	256
8.00000+	3	3.26390+	1	0.0	+ 0	1.28930-	-2	4.00000-	2	0.0	+ 09649	2151	257
1.00000+	4	3.25000+	1	0.0	+ 0	1.28380-	-2	4.00000-	2	0.0	+ 09649	2151	258
1.50000+	4	3.21560+	1	0.0	+ 0	1.27020-	-2	4.00000-	2	0.0	+ 09649	2151	259
2.00000+	4	3.18150+	1	0.0	+ 0	1.25680-	-2	4.00000-	2	0.0	+ 09649	2151	260
3.00000+	4	3.11460+	1	9.44090-	-3	1.23030-	-2	4.00000-	2	0.0	+ 09649	2151	261
1.00000+	0	0.0	+ 0		2	0	198		329649	2151	262		
0.0	+ 0	0.0	+ 0	2.00000+	0	2.00000+	0	0.0	+ 0	2.00000+	09649	2151	263
4.15000+	0	1.10670+	1	0.0	+ 0	4.37150-	-3	4.00000-	-2	1.99750+	09649	2151	264
5.00000+	0	1.10670+	1	0.0	+ 0	4.37150-	-3	4.00000-	-2	1.99750+	09649	2151	265
6.00000+	0	1.10670+	1	0.0	+ 0	4.37150-	-3	4.00000-	-2	1.99750+	09649	2151	266
8.00000+	0	1.10660+	1	0.0	+ 0	4.37140-	-3	4.00000-	-2	1.99750+	09649	2151	267
1.00000+	1	1.10660+	1	0.0	+ 0	4.37140-	-3	4.00000-	-2	1.99750+	09649	2151	268
1.50000+	1	1.10660+	1	0.0	+ 0	4.37140-	-3	4.00000-	-2	1.99750+	09649	2151	269
2.00000+	1	1.10660+	1	0.0	+ 0	4.37130-	-3	4.00000-	-2	1.99750+	09649	2151	270
3.00000+	1	1.10660+	1	0.0	+ 0	4.37120-	-3	4.00000-	-2	1.99750+	09649	2151	271
4.00000+	1	1.10660+	1	0.0	+ 0	4.37110-	-3	4.00000-	-2	1.99750+	09649	2151	272
5.00000+	1	1.10650+	1	0.0	+ 0	4.37100-	-3	4.00000-	-2	1.99750+	09649	2151	273
6.00000+	1	1.10650+	1	0.0	+ 0	4.37100-	-3	4.00000-	-2	1.99750+	09649	2151	274
8.00000+	1	1.10650+	1	0.0	+ 0	4.37070-	-3	4.00000-	-2	1.99750+	09649	2151	275
1.00000+	2	1.10640+	1	0.0	+ 0	4.37060-	-3	4.00000-	-2	1.99750+	09649	2151	276
1.50000+	2	1.10630+	1	0.0	+ 0	4.37010-	-3	4.00000-	-2	1.99750+	09649	2151	277
2.00000+	2	1.10620+	1	0.0	+ 0	4.36970-	-3	4.00000-	-2	1.99750+	09649	2151	278
3.00000+	2	1.10600+	1	0.0	+ 0	4.36870-	-3	4.00000-	-2	1.99750+	09649	2151	279
4.00000+	2	1.10570+	1	0.0	+ 0	4.36780-	-3	4.00000-	-2	1.99750+	09649	2151	280
5.00000+	2	1.10550+	1	0.0	+ 0	4.36690-	-3	4.00000-	-2	1.99750+	09649	2151	281
6.00000+	2	1.10520+	1	0.0	+ 0	4.36590-	-3	4.00000-	-2	1.99750+	09649	2151	282
8.00000+	2	1.10480+	1	0.0	+ 0	4.36400-	-3	4.00000-	-2	1.99750+	09649	2151	283
1.00000+	3	1.10430+	1	0.0	+ 0	4.36220-	-3	4.00000-	-2	1.99750+	09649	2151	284
1.50000+	3	1.10310+	1	0.0	+ 0	4.35760-	-3	4.00000-	-2	1.99750+	09649	2151	285
2.00000+	3	1.10200+	1	0.0	+ 0	4.35290-	-3	4.00000-	-2	1.99750+	09649	2151	286

3.00000+	3	1.09960+	1	0.0	+ 0	4.34360-	3	4.00000-	2	1.99750+	09649	2151	287
4.00000+	3	1.09730+	1	0.0	+ 0	4.33440-	3	4.00000-	2	1.99750+	09649	2151	288
5.00000+	3	1.09490+	1	0.0	+ 0	4.32510-	3	4.00000-	2	1.99750+	09649	2151	289
6.00000+	3	1.09260+	1	0.0	+ 0	4.31600-	3	4.00000-	2	1.99750+	09649	2151	290
8.00000+	3	1.08800+	1	0.0	+ 0	4.29760-	3	4.00000-	2	1.99750+	09649	2151	291
1.00000+	4	1.08330+	1	0.0	+ 0	4.27940-	3	4.00000-	2	1.99750+	09649	2151	292
1.50000+	4	1.07190+	1	0.0	+ 0	4.23400-	3	4.00000-	2	1.99750+	09649	2151	293
2.00000+	4	1.06050+	1	0.0	+ 0	4.18920-	3	4.00000-	2	1.99750+	09649	2151	294
3.00000+	4	1.03820+	1	6.29400-	-3	4.10110-	3	4.00000-	2	1.99750+	09649	2151	295
2.00000+	0	0.0	+ 0		2	0		198		329649	2151	296	
0.0	+ 0	0.0	+ 0	2.00000+	0	1.00000+	0	0.0	+ 0	1.00000+	09649	2151	297
4.15000+	0	6.63990+	0	0.0	+ 0	2.62290-	3	4.00000-	2	4.07170-	19649	2151	298
5.00000+	0	6.63990+	0	0.0	+ 0	2.62290-	3	4.00000-	2	4.07170-	19649	2151	299
6.00000+	0	6.63990+	0	0.0	+ 0	2.62290-	3	4.00000-	2	4.07170-	19649	2151	300
8.00000+	0	6.63980+	0	0.0	+ 0	2.62280-	3	4.00000-	2	4.07170-	19649	2151	301
1.00000+	1	6.63980+	0	0.0	+ 0	2.62280-	3	4.00000-	2	4.07170-	19649	2151	302
1.50000+	1	6.63970+	0	0.0	+ 0	2.62280-	3	4.00000-	2	4.07170-	19649	2151	303
2.00000+	1	6.63970+	0	0.0	+ 0	2.62280-	3	4.00000-	2	4.07170-	19649	2151	304
3.00000+	1	6.63960+	0	0.0	+ 0	2.62280-	3	4.00000-	2	4.07170-	19649	2151	305
4.00000+	1	6.63940+	0	0.0	+ 0	2.62270-	3	4.00000-	2	4.07170-	19649	2151	306
5.00000+	1	6.63920+	0	0.0	+ 0	2.62260-	3	4.00000-	2	4.07170-	19649	2151	307
6.00000+	1	6.63920+	0	0.0	+ 0	2.62260-	3	4.00000-	2	4.07170-	19649	2151	308
8.00000+	1	6.63880+	0	0.0	+ 0	2.62250-	3	4.00000-	2	4.07170-	19649	2151	309
1.00000+	2	6.63860+	0	0.0	+ 0	2.62240-	3	4.00000-	2	4.07170-	19649	2151	310
1.50000+	2	6.63780+	0	0.0	+ 0	2.62210-	3	4.00000-	2	4.07170-	19649	2151	311
2.00000+	2	6.63720+	0	0.0	+ 0	2.62180-	3	4.00000-	2	4.07170-	19649	2151	312
3.00000+	2	6.63580+	0	0.0	+ 0	2.62120-	3	4.00000-	2	4.07170-	19649	2151	313
4.00000+	2	6.63440+	0	0.0	+ 0	2.62070-	3	4.00000-	2	4.07170-	19649	2151	314
5.00000+	2	6.63290+	0	0.0	+ 0	2.62010-	3	4.00000-	2	4.07170-	19649	2151	315
6.00000+	2	6.63140+	0	0.0	+ 0	2.61950-	3	4.00000-	2	4.07170-	19649	2151	316
8.00000+	2	6.62860+	0	0.0	+ 0	2.61840-	3	4.00000-	2	4.07170-	19649	2151	317
1.00000+	3	6.62580+	0	0.0	+ 0	2.61730-	3	4.00000-	2	4.07170-	19649	2151	318
1.50000+	3	6.61880+	0	0.0	+ 0	2.61450-	3	4.00000-	2	4.07170-	19649	2151	319
2.00000+	3	6.61170+	0	0.0	+ 0	2.61180-	3	4.00000-	2	4.07170-	19649	2151	320
3.00000+	3	6.59760+	0	0.0	+ 0	2.60620-	3	4.00000-	2	4.07170-	19649	2151	321
4.00000+	3	6.58360+	0	0.0	+ 0	2.60060-	3	4.00000-	2	4.07170-	19649	2151	322
5.00000+	3	6.56960+	0	0.0	+ 0	2.59510-	3	4.00000-	2	4.07170-	19649	2151	323
6.00000+	3	6.55560+	0	0.0	+ 0	2.58960-	3	4.00000-	2	4.07170-	19649	2151	324
8.00000+	3	6.52770+	0	0.0	+ 0	2.57860-	3	4.00000-	2	4.07170-	19649	2151	325
1.00000+	4	6.50000+	0	0.0	+ 0	2.56760-	3	4.00000-	2	4.07170-	19649	2151	326
1.50000+	4	6.43110+	0	0.0	+ 0	2.54040-	3	4.00000-	2	4.07170-	19649	2151	327
2.00000+	4	6.36310+	0	0.0	+ 0	2.51350-	3	4.00000-	2	4.07170-	19649	2151	328
3.00000+	4	6.22920+	0	3.77640-	-3	2.46060-	3	4.00000-	2	4.07170-	19649	2151	329
2.46936+	2	0.0	+ 0		2	0		3		09649	2151	330	
1.00000+	0	0.0	+ 0		2	0		198		329649	2151	331	
0.0	+ 0	0.0	+ 0	1.00010+	0	1.00000+	0	0.0	+ 0	1.00000+	09649	2151	332
4.15000+	0	1.10670+	1	0.0	+ 0	1.15630-	3	4.00000-	2	7.68250-	39649	2151	333
5.00000+	0	1.10670+	1	0.0	+ 0	1.15630-	3	4.00000-	2	7.68250-	39649	2151	334
6.00000+	0	1.10670+	1	0.0	+ 0	1.15630-	3	4.00000-	2	7.68250-	39649	2151	335
8.00000+	0	1.10660+	1	0.0	+ 0	1.15630-	3	4.00000-	2	7.68250-	39649	2151	336
1.00000+	1	1.10660+	1	0.0	+ 0	1.15630-	3	4.00000-	2	7.68250-	39649	2151	337
1.50000+	1	1.10660+	1	0.0	+ 0	1.15630-	3	4.00000-	2	7.68250-	39649	2151	338
2.00000+	1	1.10660+	1	0.0	+ 0	1.15630-	3	4.00000-	2	7.68250-	39649	2151	339
3.00000+	1	1.10660+	1	0.0	+ 0	1.15630-	3	4.00000-	2	7.68250-	39649	2151	340
4.00000+	1	1.10660+	1	0.0	+ 0	1.15620-	3	4.00000-	2	7.68250-	39649	2151	341
5.00000+	1	1.10650+	1	0.0	+ 0	1.15620-	3	4.00000-	2	7.68250-	39649	2151	342
6.00000+	1	1.10650+	1	0.0	+ 0	1.15620-	3	4.00000-	2	7.68250-	39649	2151	343
8.00000+	1	1.10650+	1	0.0	+ 0	1.15610-	3	4.00000-	2	7.68250-	39649	2151	344
1.00000+	2	1.10640+	1	0.0	+ 0	1.15610-	3	4.00000-	2	7.68250-	39649	2151	345
1.50000+	2	1.10630+	1	0.0	+ 0	1.15600-	3	4.00000-	2	7.68250-	39649	2151	346
2.00000+	2	1.10620+	1	0.0	+ 0	1.15580-	3	4.00000-	2	7.68250-	39649	2151	347
3.00000+	2	1.10600+	1	0.0	+ 0	1.15560-	3	4.00000-	2	7.68250-	39649	2151	348
4.00000+	2	1.10570+	1	0.0	+ 0	1.15540-	3	4.00000-	2	7.68250-	39649	2151	349
5.00000+	2	1.10550+	1	0.0	+ 0	1.15510-	3	4.00000-	2	7.68250-	39649	2151	350
6.00000+	2	1.10520+	1	0.0	+ 0	1.15480-	3	4.00000-	2	7.68250-	39649	2151	351
8.00000+	2	1.10480+	1	0.0	+ 0	1.15440-	3	4.00000-	2	7.68250-	39649	2151	352
1.00000+	3	1.10430+	1	0.0	+ 0	1.15390-	3	4.00000-	2	7.68250-	39649	2151	353
1.50000+	3	1.10310+	1	0.0	+ 0	1.15260-	3	4.00000-	2	7.68250-	39649	2151	354
2.00000+	3	1.10200+	1	0.0	+ 0	1.15140-	3	4.00000-	2	7.68250-	39649	2151	355
3.00000+	3	1.09960+	1	0.0	+ 0	1.14900-	3	4.00000-	2	7.68250-	39649	2151	356
4.00000+	3	1.09730+	1	0.0	+ 0	1.14650-	3	4.00000-	2	7.68250-	39649	2151	357
5.00000+	3	1.09490+	1	0.0	+ 0	1.14410-	3	4.00000-	2	7.68250-	39649	2151	358

6.00000+	3	1.09260+	1	0.0	+ 0	1.14160-	3	4.00000-	2	7.68250-	39649	2151	359
8.00000+	3	1.08800+	1	0.0	+ 0	1.13680-	3	4.00000-	2	7.68250-	39649	2151	360
1.00000+	4	1.08330+	1	0.0	+ 0	1.13200-	3	4.00000-	2	7.68250-	39649	2151	361
1.50000+	4	1.07190+	1	0.0	+ 0	1.12000-	3	4.00000-	2	7.68250-	39649	2151	362
2.00000+	4	1.06050+	1	0.0	+ 0	1.10810-	3	4.00000-	2	7.68250-	39649	2151	363
3.00000+	4	1.03820+	1	6.76780-	2	1.08480-	3	4.00000-	2	7.68250-	39649	2151	364
2.00000+	0	0.0	+ 0		2	0	198			329649	2151	365	
0.0	+ 0	0.0	+ 0	1.000010+	0	2.000000+	0	0.0	+ 0	1.00000+	09649	2151	366
4.15000+	0	6.63990+	0	0.0	+ 0	6.93790-	4	4.00000-	2	1.02180+	09649	2151	367
5.00000+	0	6.63990+	0	0.0	+ 0	6.93790-	4	4.00000-	2	1.02180+	09649	2151	368
6.00000+	0	6.63990+	0	0.0	+ 0	6.93790-	4	4.00000-	2	1.02180+	09649	2151	369
8.00000+	0	6.63980+	0	0.0	+ 0	6.93780-	4	4.00000-	2	1.02180+	09649	2151	370
1.00000+	1	6.63980+	0	0.0	+ 0	6.93790-	4	4.00000-	2	1.02180+	09649	2151	371
1.50000+	1	6.63970+	0	0.0	+ 0	6.93780-	4	4.00000-	2	1.02180+	09649	2151	372
2.00000+	1	6.63970+	0	0.0	+ 0	6.93770-	4	4.00000-	2	1.02180+	09649	2151	373
3.00000+	1	6.63960+	0	0.0	+ 0	6.93760-	4	4.00000-	2	1.02180+	09649	2151	374
4.00000+	1	6.63940+	0	0.0	+ 0	6.93740-	4	4.00000-	2	1.02180+	09649	2151	375
5.00000+	1	6.63920+	0	0.0	+ 0	6.93720-	4	4.00000-	2	1.02180+	09649	2151	376
6.00000+	1	6.63920+	0	0.0	+ 0	6.93720-	4	4.00000-	2	1.02180+	09649	2151	377
8.00000+	1	6.63880+	0	0.0	+ 0	6.93680-	4	4.00000-	2	1.02180+	09649	2151	378
1.00000+	2	6.63860+	0	0.0	+ 0	6.93660-	4	4.00000-	2	1.02180+	09649	2151	379
1.50000+	2	6.63780+	0	0.0	+ 0	6.93580-	4	4.00000-	2	1.02180+	09649	2151	380
2.00000+	2	6.63720+	0	0.0	+ 0	6.93510-	4	4.00000-	2	1.02180+	09649	2151	381
3.00000+	2	6.63580+	0	0.0	+ 0	6.93360-	4	4.00000-	2	1.02180+	09649	2151	382
4.00000+	2	6.63440+	0	0.0	+ 0	6.93210-	4	4.00000-	2	1.02180+	09649	2151	383
5.00000+	2	6.63290+	0	0.0	+ 0	6.93070-	4	4.00000-	2	1.02180+	09649	2151	384
6.00000+	2	6.63140+	0	0.0	+ 0	6.92910-	4	4.00000-	2	1.02180+	09649	2151	385
8.00000+	2	6.62860+	0	0.0	+ 0	6.92610-	4	4.00000-	2	1.02180+	09649	2151	386
1.00000+	3	6.62580+	0	0.0	+ 0	6.92320-	4	4.00000-	2	1.02180+	09649	2151	387
1.50000+	3	6.61880+	0	0.0	+ 0	6.91590-	4	4.00000-	2	1.02180+	09649	2151	388
2.00000+	3	6.61170+	0	0.0	+ 0	6.90850-	4	4.00000-	2	1.02180+	09649	2151	389
3.00000+	3	6.59760+	0	0.0	+ 0	6.89370-	4	4.00000-	2	1.02180+	09649	2151	390
4.00000+	3	6.58360+	0	0.0	+ 0	6.87910-	4	4.00000-	2	1.02180+	09649	2151	391
5.00000+	3	6.56960+	0	0.0	+ 0	6.86440-	4	4.00000-	2	1.02180+	09649	2151	392
6.00000+	3	6.55560+	0	0.0	+ 0	6.84990-	4	4.00000-	2	1.02180+	09649	2151	393
8.00000+	3	6.52770+	0	0.0	+ 0	6.82070-	4	4.00000-	2	1.02180+	09649	2151	394
1.00000+	4	6.50000+	0	0.0	+ 0	6.79180-	4	4.00000-	2	1.02180+	09649	2151	395
1.50000+	4	6.43110+	0	0.0	+ 0	6.71980-	4	4.00000-	2	1.02180+	09649	2151	396
2.00000+	4	6.36310+	0	0.0	+ 0	6.64870-	4	4.00000-	2	1.02180+	09649	2151	397
3.00000+	4	6.22920+	0	4.06070-	2	6.50880-	4	4.00000-	2	1.02180+	09649	2151	398
3.00000+	0	0.0	+ 0		2	0	198			329649	2151	399	
0.0	+ 0	0.0	+ 0	2.000000+	0	1.000000+	0	0.0	+ 0	1.00000+	09649	2151	400
4.15000+	0	4.74280+	0	0.0	+ 0	4.95570-	4	4.00000-	2	1.45970-	19649	2151	401
5.00000+	0	4.74280+	0	0.0	+ 0	4.95570-	4	4.00000-	2	1.45970-	19649	2151	402
6.00000+	0	4.74280+	0	0.0	+ 0	4.95570-	4	4.00000-	2	1.45970-	19649	2151	403
8.00000+	0	4.74270+	0	0.0	+ 0	4.95560-	4	4.00000-	2	1.45970-	19649	2151	404
1.00000+	1	4.74270+	0	0.0	+ 0	4.95560-	4	4.00000-	2	1.45970-	19649	2151	405
1.50000+	1	4.74270+	0	0.0	+ 0	4.95550-	4	4.00000-	2	1.45970-	19649	2151	406
2.00000+	1	4.74260+	0	0.0	+ 0	4.95550-	4	4.00000-	2	1.45970-	19649	2151	407
3.00000+	1	4.74260+	0	0.0	+ 0	4.95540-	4	4.00000-	2	1.45970-	19649	2151	408
4.00000+	1	4.74240+	0	0.0	+ 0	4.95530-	4	4.00000-	2	1.45970-	19649	2151	409
5.00000+	1	4.74230+	0	0.0	+ 0	4.95520-	4	4.00000-	2	1.45970-	19649	2151	410
6.00000+	1	4.74230+	0	0.0	+ 0	4.95510-	4	4.00000-	2	1.45970-	19649	2151	411
8.00000+	1	4.74200+	0	0.0	+ 0	4.95490-	4	4.00000-	2	1.45970-	19649	2151	412
1.00000+	2	4.74180+	0	0.0	+ 0	4.95470-	4	4.00000-	2	1.45970-	19649	2151	413
1.50000+	2	4.74130+	0	0.0	+ 0	4.95410-	4	4.00000-	2	1.45970-	19649	2151	414
2.00000+	2	4.74080+	0	0.0	+ 0	4.95360-	4	4.00000-	2	1.45970-	19649	2151	415
3.00000+	2	4.73980+	0	0.0	+ 0	4.95260-	4	4.00000-	2	1.45970-	19649	2151	416
4.00000+	2	4.73880+	0	0.0	+ 0	4.95150-	4	4.00000-	2	1.45970-	19649	2151	417
5.00000+	2	4.73780+	0	0.0	+ 0	4.95050-	4	4.00000-	2	1.45970-	19649	2151	418
6.00000+	2	4.73670+	0	0.0	+ 0	4.94930-	4	4.00000-	2	1.45970-	19649	2151	419
8.00000+	2	4.73470+	0	0.0	+ 0	4.94720-	4	4.00000-	2	1.45970-	19649	2151	420
1.00000+	3	4.73270+	0	0.0	+ 0	4.94510-	4	4.00000-	2	1.45970-	19649	2151	421
1.50000+	3	4.72770+	0	0.0	+ 0	4.93990-	4	4.00000-	2	1.45970-	19649	2151	422
2.00000+	3	4.72270+	0	0.0	+ 0	4.93470-	4	4.00000-	2	1.45970-	19649	2151	423
3.00000+	3	4.71260+	0	0.0	+ 0	4.92410-	4	4.00000-	2	1.45970-	19649	2151	424
4.00000+	3	4.70260+	0	0.0	+ 0	4.91370-	4	4.00000-	2	1.45970-	19649	2151	425
5.00000+	3	4.69250+	0	0.0	+ 0	4.90320-	4	4.00000-	2	1.45970-	19649	2151	426
6.00000+	3	4.68260+	0	0.0	+ 0	4.89280-	4	4.00000-	2	1.45970-	19649	2151	427
8.00000+	3	4.66270+	0	0.0	+ 0	4.87190-	4	4.00000-	2	1.45970-	19649	2151	428
1.00000+	4	4.64290+	0	0.0	+ 0	4.85130-	4	4.00000-	2	1.45970-	19649	2151	429
1.50000+	4	4.59370+	0	0.0	+ 0	4.79990-	4	4.00000-	2	1.45970-	19649	2151	430

2.00000+	4	4.54500+	0	0.0	+ 0	4.74900-	4	4.00000-	2	1.45970-	19649	2151	431	
3.00000+	4	4.44940+	0	1.02520-	6	4.64910-	4	4.00000-	2	1.45970-	19649	2151	432	
											9649	2	0	
											9649	0	433	
											9649	0	434	
9.62490+	4	2.46936+	2		0	99		0		09649	3	1	435	
0.0	+ 0	0.0	+ 0		0	0		3		1309649	3	1	436	
										59649	3	1	437	
12		5	17		2			130						
1.00000-	5	1.32600-	2	2.66312-	5	8.54308+	1	7.09219-	5	5.65287+	19649	3	1	438
1.88873-	4	3.88195+	1	5.02991-	4	2.79685+	1	1.33952-	3	2.13197+	19649	3	1	439
3.56731-	3	1.72457+	1	9.50015-	3	1.47495+	1	2.53000-	2	1.32200+	19649	3	1	440
9.05424-	2	1.20792+	1	3.24029-	1	1.14762+	1	4.15000+	0	1.09890+	19649	3	1	441
4.15000+	0	0.0	+ 0	2.63061+	4	0.0	+ 0	2.72295+	4	3.22689-	29649	3	1	442
2.81530+	4	6.34650-	2	3.00000+	4	1.22899-	1	3.00000+	4	1.40948+	19649	3	1	443
4.25717+	4	1.38923+	1	5.00000+	4	1.38036+	1	5.24114+	4	1.37773+	19649	3	1	444
8.00000+	4	1.35095+	1	1.00000+	5	1.33234+	1	1.10445+	5	1.32246+	19649	3	1	445
1.10546+	5	1.32236+	1	1.46591+	5	1.28720+	1	1.50000+	5	1.28380+	19649	3	1	446
2.00000+	5	1.23330+	1	2.08842+	5	1.22433+	1	2.20891+	5	1.21215+	19649	3	1	447
3.00000+	5	1.13452+	1	4.00000+	5	1.04595+	1	5.00000+	5	9.70578+	09649	3	1	448
6.00000+	5	9.08553+	0	8.00000+	5	8.19472+	0	1.00000+	6	7.65727+	09649	3	1	449
1.50000+	6	7.12010+	0	2.00000+	6	7.07512+	0	2.44949+	6	7.25903+	09649	3	1	450
3.00000+	6	7.44772+	0	4.00000+	6	7.75690+	0	4.73180+	6	7.80306+	09649	3	1	451
5.00000+	6	7.78554+	0	5.23318+	6	7.72315+	0	5.47723+	6	7.66126+	09649	3	1	452
5.60349+	6	7.63050+	0	5.73266+	6	7.59987+	0	5.86481+	6	7.56936+	09649	3	1	453
6.00000+	6	7.53897+	0	6.44742+	6	7.30004+	0	6.68349+	6	7.18343+	09649	3	1	454
6.92820+	6	7.06868+	0	7.00000+	6	7.03612+	0	7.18188+	6	6.95577+	09649	3	1	455
7.31218+	6	6.89999+	0	7.44484+	6	6.84466+	0	7.57991+	6	6.78977+	09649	3	1	456
7.64836+	6	6.76249+	0	7.71743+	6	6.73532+	0	7.78712+	6	6.70826+	09649	3	1	457
7.85744+	6	6.68131+	0	7.89284+	6	6.66787+	0	7.92840+	6	6.65447+	09649	3	1	458
7.96412+	6	6.64108+	0	7.98204+	6	6.63440+	0	8.00000+	6	6.62773+	09649	3	1	459
8.45897+	6	6.47389+	0	8.69824+	6	6.39832+	0	8.94427+	6	6.32363+	09649	3	1	460
9.00000+	6	6.30711+	0	9.19727+	6	6.24981+	0	9.32644+	6	6.21322+	09649	3	1	461
9.45742+	6	6.17685+	0	9.59024+	6	6.14069+	0	9.65735+	6	6.12269+	09649	3	1	462
9.72493+	6	6.10474+	0	9.79298+	6	6.08685+	0	9.86151+	6	6.06901+	09649	3	1	463
9.89595+	6	6.06011+	0	9.93051+	6	6.05122+	0	9.96519+	6	6.04234+	09649	3	1	464
9.98258+	6	6.03791+	0	1.00000+	7	6.03348+	0	1.02341+	7	5.99695+	09649	3	1	465
1.04736+	7	5.96065+	0	1.05954+	7	5.94259+	0	1.07187+	7	5.92458+	09649	3	1	466
1.08434+	7	5.90662+	0	1.09696+	7	5.88871+	0	1.10000+	7	5.88696+	09649	3	1	467
1.20000+	7	5.83221+	0	1.24900+	7	5.80719+	0	1.27424+	7	5.79473+	09649	3	1	468
1.30000+	7	5.78229+	0	1.32346+	7	5.79529+	0	1.34735+	7	5.80832+	09649	3	1	469
1.37167+	7	5.82137+	0	1.39642+	7	5.83446+	0	1.40000+	7	5.83633+	09649	3	1	470
1.42344+	7	5.84851+	0	1.44728+	7	5.86072+	0	1.47340+	7	5.87389+	09649	3	1	471
1.48664+	7	5.88049+	0	1.50000+	7	5.88710+	0	1.52440+	7	5.90888+	09649	3	1	472
1.54919+	7	5.93074+	0	1.57439+	7	5.95269+	0	1.58714+	7	5.96369+	09649	3	1	473
1.60000+	7	5.97472+	0	1.61482+	7	5.98734+	0	1.63570+	7	6.00497+	09649	3	1	474
1.65686+	7	6.02267+	0	1.67829+	7	6.04041+	0	1.70000+	7	6.05821+	09649	3	1	475
1.72046+	7	6.07482+	0	1.74001+	7	6.08886+	0	1.75978+	7	6.10294+	09649	3	1	476
1.77978+	7	6.11705+	0	1.80000+	7	6.13119+	0	1.80000+	7	6.13119+	09649	3	1	477
1.82728+	7	6.15007+	0	1.85497+	7	6.16900+	0	1.87735+	7	6.18414+	09649	3	1	478
1.88864+	7	6.19172+	0	1.90000+	7	6.19931+	0	1.92452+	7	6.21558+	09649	3	1	479
1.94936+	7	6.23189+	0	1.97452+	7	6.24825+	0	1.98722+	7	6.25644+	09649	3	1	480
2.00000+	7	6.26464+	0							9649	3	1	481	
										9649	3	0	482	
9.62490+	4	2.46936+	2		0	0		0		09649	3	2	483	
0.0	+ 0	0.0	+ 0		0	0		3		1189649	3	2	484	
					5	5	2	118		59649	3	2	485	
1.00000-	5	1.08000+	1	2.53000-	2	1.08000+	1	4.15000+	0	1.08000+	19649	3	2	486
4.15000+	0	0.0	+ 0	3.00000+	4	0.0	+ 0	3.00000+	4	1.15886+	19649	3	2	487
4.25717+	4	1.13598+	1	5.00000+	4	1.12271+	1	5.24114+	4	1.11814+	19649	3	2	488
8.00000+	4	1.07026+	1	1.00000+	5	1.03812+	1	1.10445+	5	1.02248+	19649	3	2	489
1.10546+	5	1.02233+	1	1.46591+	5	9.72249+	0	1.50000+	5	9.67835+	09649	3	2	490
2.00000+	5	9.08185+	0	2.08842+	5	8.99006+	0	2.20891+	5	8.84691+	09649	3	2	491
3.00000+	5	8.01214+	0	4.00000+	5	7.11377+	0	5.00000+	5	6.41963+	09649	3	2	492
6.00000+	5	5.77815+	0	8.00000+	5	4.78023+	0	1.00000+	6	4.12305+	09649	3	2	493
1.50000+	6	3.49847+	0	2.00000+	6	3.65116+	0	2.44949+	6	4.06040+	09649	3	2	494
3.00000+	6	4.46904+	0	4.00000+	6	4.94542+	0	4.73180+	6	4.98471+	09649	3	2	495
5.00000+	6	4.95030+	0	5.23318+	6	4.88466+	0	5.47723+	6	4.81311+	09649	3	2	496
5.60349+	6	4.77503+	0	5.73266+	6	4.73536+	0	5.86481+	6	4.69408+	09649	3	2	497
6.00000+	6	4.65114+	0	6.44742+	6	4.38497+	0	6.68349+	6	4.25329+	09649	3	2	498
6.92820+	6	4.12247+	0	7.00000+	6	4.08591+	0	7.18188+	6	4.01767+	09649	3	2	499
7.31218+	6	3.97094+	0	7.44484+	6	3.92467+	0	7.57991+	6	3.87883+	09649	3	2	500
7.64836+	6	3.85608+	0	7.71743+	6	3.83344+	0	7.78712+	6	3.81091+	09649	3	2	501
7.85744+	6	3.78849+	0	7.89284+	6	3.77732+	0	7.92840+	6	3.76618+	09649	3	2	502

7.96412+	6	3.75506+	0	7.98204+	6	3.74951+	0	8.00000+	6	3.74397+	09649	3	2	503
8.45897+	6	3.57290+	0	8.69824+	6	3.48876+	0	8.94427+	6	3.40554+	09649	3	2	504
9.00000+	6	3.38716+	0	9.19727+	6	3.32088+	0	9.32644+	6	3.27849+	09649	3	2	505
9.45742+	6	3.23627+	0	9.59024+	6	3.19422+	0	9.65735+	6	3.17327+	09649	3	2	506
9.72493+	6	3.15235+	0	9.79298+	6	3.13147+	0	9.86151+	6	3.11064+	09649	3	2	507
9.89595+	6	3.10024+	0	9.93051+	6	3.08985+	0	9.96519+	6	3.07947+	09649	3	2	508
9.98258+	6	3.07428+	0	1.00000+	7	3.06910+	0	1.02341+	7	3.02482+	09649	3	2	509
1.04736+	7	2.98016+	0	1.05954+	7	2.95768+	0	1.07187+	7	2.93508+	09649	3	2	510
1.08434+	7	2.91238+	0	1.09696+	7	2.88956+	0	1.10000+	7	2.88660+	09649	3	2	511
1.20000+	7	2.81468+	0	1.24900+	7	2.77845+	0	1.27424+	7	2.76054+	09649	3	2	512
1.30000+	7	2.74277+	0	1.32346+	7	2.74831+	0	1.34735+	7	2.75392+	09649	3	2	513
1.37167+	7	2.75962+	0	1.39642+	7	2.76540+	0	1.40000+	7	2.76623+	09649	3	2	514
1.42344+	7	2.77005+	0	1.44728+	7	2.77392+	0	1.47340+	7	2.77815+	09649	3	2	515
1.48664+	7	2.78029+	0	1.50000+	7	2.78244+	0	1.52440+	7	2.79637+	09649	3	2	516
1.54919+	7	2.81024+	0	1.57439+	7	2.82407+	0	1.58714+	7	2.83096+	09649	3	2	517
1.60000+	7	2.83784+	0	1.61482+	7	2.83923+	0	1.63570+	7	2.85333+	09649	3	2	518
1.65686+	7	2.86738+	0	1.67829+	7	2.88136+	0	1.70000+	7	2.89529+	09649	3	2	519
1.72046+	7	2.91519+	0	1.74001+	7	2.93241+	0	1.75978+	7	2.94973+	09649	3	2	520
1.77978+	7	2.96717+	0	1.80000+	7	2.98471+	0	1.80000+	7	2.94555+	09649	3	2	521
1.82728+	7	2.95905+	0	1.85497+	7	2.97267+	0	1.87735+	7	2.98361+	09649	3	2	522
1.88864+	7	2.98911+	0	1.90000+	7	2.99463+	0	1.92452+	7	3.00682+	09649	3	2	523
1.94936+	7	3.01910+	0	1.97452+	7	3.03148+	0	1.98722+	7	3.03771+	09649	3	2	524
2.00000+	7	3.04396+	0							9649	3	2	525	
										9649	3	0	526	
9.62490+	4	2.46936+	2		0	99		0		09649	3	4	527	
0.0	+ 0-2.62000+	4			0	0		1		349649	3	4	528	
34		3			0	0		0		09649	3	4	529	
2.63061+	4	0.0	+ 0	3.00000+	4	1.22899-	1	4.25717+	4	2.90707-	19649	3	4	530
5.00000+	4	3.98084-	1	5.24114+	4	4.30793-	1	8.00000+	4	7.35657-	19649	3	4	531
1.00000+	5	8.55682-	1	1.10445+	5	9.01465-	1	1.10546+	5	9.01857-	19649	3	4	532
1.46591+	5	1.01225+	0	1.50000+	5	1.01869+	0	2.00000+	5	1.08021+	09649	3	4	533
2.08842+	5	1.08919+	0	2.20891+	5	1.12273+	0	3.00000+	5	1.23171+	09649	3	4	534
4.00000+	5	1.24469+	0	5.00000+	5	1.33855+	0	6.00000+	5	1.31590+	09649	3	4	535
8.00000+	5	1.23909+	0	1.00000+	6	1.20047+	0	1.50000+	6	1.19516+	09649	3	4	536
2.00000+	6	9.78441-	1	3.00000+	6	6.74506-	1	4.00000+	6	7.20085-	19649	3	4	537
4.73180+	6	7.95886-	1	5.00000+	6	7.72289-	1	6.00000+	6	2.41962-	19649	3	4	538
8.00000+	6	9.16033-	3	1.00000+	7	3.00012-	4	1.09696+	7	1.00459-	49649	3	4	539
1.30000+	7	1.17423-	4	1.50000+	7	6.98441-	5	1.72046+	7	6.54017-	59649	3	4	540
2.00000+	7	9.84463-	5							9649	3	4	541	
										9649	3	0	542	
9.62490+	4	2.46936+	2		0	99		0		09649	3	16	543	
0.0	+ 0-4.71270+	6			0	0		1		199649	3	16	544	
19		2			0	0		0		09649	3	16	545	
4.73180+	6	0.0	+ 0	5.00000+	6	6.25450-	2	6.00000+	6	6.45830-	19649	3	16	546
7.00000+	6	7.23790-	1	8.00000+	6	7.14600-	1	9.00000+	6	6.95500-	19649	3	16	547
1.00000+	7	7.14080-	1	1.09696+	7	8.07330-	1	1.10000+	7	8.08010-	19649	3	16	548
1.20000+	7	7.41020-	1	1.30000+	7	7.424210-	1	1.40000+	7	1.89460-	19649	3	16	549
1.50000+	7	7.63880-	2	1.60000+	7	3.24540-	2	1.61482+	7	2.88900-	29649	3	16	550
1.70000+	7	1.35610-	2	1.80000+	7	5.21900-	3	1.90000+	7	1.87380-	39649	3	16	551
2.00000+	7	6.72620-	4							9649	3	16	552	
										9649	3	0	553	
9.62490+	4	2.46936+	2		0	99		0		09649	3	17	554	
0.0	+ 0-1.09254+	7			0	0		1		119649	3	17	555	
11		2			0	0		0		09649	3	17	556	
1.09696+	7	0.0	+ 0	1.20000+	7	7.63960-	2	1.30000+	7	3.15190-	19649	3	17	557
1.40000+	7	4.80550-	1	1.50000+	7	5.48200-	1	1.60000+	7	6.24350-	19649	3	17	558
1.61482+	7	6.42200-	1	1.70000+	7	6.88760-	1	1.80000+	7	6.60040-	19649	3	17	559
1.90000+	7	5.06660-	1	2.00000+	7	3.28470-	1			9649	3	17	560	
										9649	3	0	561	
9.62490+	4	2.46936+	2		0	99		0		09649	3	18	562	
0.0	+ 0 0.0	+ 0			0	0		3		379649	3	18	563	
3		5			5	2		37		59649	3	18	564	
1.00000-	5	4.13000+	1	2.53000-	2	8.20000-	1	4.15000+	0	6.40300-	29649	3	18	565
4.15000+	0	0.0	+ 0	3.00000+	4	0.0	+ 0	3.00000+	4	1.94750+	09649	3	18	566
5.00000+	4	1.90000+	0	8.00000+	4	1.90000+	0	1.00000+	5	1.94750+	09649	3	18	567
1.50000+	5	2.04250+	0	2.00000+	5	2.09000+	0	3.00000+	5	2.04250+	09649	3	18	568
4.00000+	5	2.05200+	0	5.00000+	5	1.90000+	0	6.00000+	5	1.94750+	09649	3	18	569
8.00000+	5	2.13750+	0	1.00000+	6	2.30000+	0	1.50000+	6	2.40000+	09649	3	18	570
2.00000+	6	2.43000+	0	3.00000+	6	2.30000+	0	4.00000+	6	2.09000+	09649	3	18	571
5.00000+	6	2.00000+	0	6.00000+	6	2.00000+	0	7.00000+	6	2.11000+	09649	3	18	572
8.00000+	6	2.16000+	0	9.00000+	6	2.22000+	0	1.00000+	7	2.25000+	09649	3	18	573
1.10000+	7	2.19000+	0	1.20000+	7	2.20000+	0	1.30000+	7	2.30000+	09649	3	18	574

1.40000+	7	2.40000+	0	1.50000+	7	2.48000+	0	1.60000+	7	2.48000+	09649	3	18	575
1.70000+	7	2.46000+	0	1.80000+	7	2.48000+	0	1.90000+	7	2.54000+	09649	3	18	576
2.00000+	7	2.60000+	0								9649	3	18	577
											9649	3	0	578
9.62490+	4	2.46936+	2		0	99		0		09649	3	37	579	
0.0	+ 0-1.60831+	7		0	0		1		59649	3	37	580		
5		2		0	0		0		09649	3	37	581		
1.61482+	7	0.0	+ 0	1.80000+	7	1.14660-	3	1.80000+	7	4.03030-	29649	3	37	582
1.90000+	7	1.56060-	1	2.00000+	7	2.91440-	1			9649	3	37	583	
									9649	3	0	584		
9.62490+	4	2.46936+	2		0	1		0		09649	3	51	585	
0.0	+ 0-2.62000+	4		0	0		1		349649	3	51	586		
34		3		0	0		0		09649	3	51	587		
2.63061+	4	0.0	+ 0	3.00000+	4	1.22899-	1	4.25717+	4	2.90707-	19649	3	51	588
5.00000+	4	3.56755-	1	5.24114+	4	3.73718-	1	8.00000+	4	4.94001-	19649	3	51	589
1.00000+	5	5.33483-	1	1.10445+	5	5.47727-	1	1.10546+	5	5.47846-	19649	3	51	590
1.46591+	5	5.65398-	1	1.50000+	5	5.65568-	1	2.00000+	5	5.60918-	19649	3	51	591
2.08842+	5	5.60566-	1	2.20891+	5	5.48989-	1	3.00000+	5	4.81196-	19649	3	51	592
4.00000+	5	3.92388-	1	5.00000+	5	3.48230-	1	6.00000+	5	2.84159-	19649	3	51	593
8.00000+	5	1.82409-	1	1.00000+	6	1.19885-	1	1.50000+	6	4.59946-	29649	3	51	594
2.00000+	6	1.35513-	2	3.00000+	6	9.78403-	4	4.00000+	6	9.80006-	59649	3	51	595
4.73180+	6	1.88349-	5	5.00000+	6	9.80318-	6	6.00000+	6	3.48679-	79649	3	51	596
8.00000+	6	2.91528-10	1	1.00000+	7	3.18766-13	1	0.09696+	7	2.33368-149649	3	51	597	
1.30000+	7	1.39391-15	1	1.50000+	7	5.43568-17	1	1.72046+	7	3.08754-189649	3	51	598	
2.00000+	7	1.68667-19							9649	3	51	599		
									9649	3	0	600		
9.62490+	4	2.46936+	2		0	2		0		09649	3	52	601	
0.0	+ 0-4.24000+	4		0	0		1		329649	3	52	602		
32		3		0	0		0		09649	3	52	603		
4.25717+	4	0.0	+ 0	5.00000+	4	4.13293-	2	5.24114+	4	5.70755-	29649	3	52	604
8.00000+	4	1.93286-	1	1.00000+	5	2.50002-	1	1.10445+	5	2.72100-	19649	3	52	605
1.10546+	5	2.72290-	1	1.46591+	5	3.13821-	1	1.50000+	5	3.16110-	19649	3	52	606
2.00000+	5	3.37709-	1	2.08842+	5	3.40666-	1	2.20891+	5	3.39294-	19649	3	52	607
3.00000+	5	3.16345-	1	4.00000+	5	2.72658-	1	5.00000+	5	2.54591-	19649	3	52	608
6.00000+	5	2.18666-	1	8.00000+	5	1.55117-	1	1.00000+	6	1.10799-	19649	3	52	609
1.50000+	6	4.75992-	2	2.00000+	6	1.46854-	2	3.00000+	6	1.12539-	39649	3	52	610
4.00000+	6	1.18154-	4	4.73180+	6	2.33856-	5	5.00000+	6	1.22950-	59649	3	52	611
6.00000+	6	4.49908-	7	8.00000+	6	3.85000-10	1	1.00000+	7	4.28735-139649	3	52	612	
1.09696+	7	3.15700-14	1	3.00000+	7	1.90418-15	1	1.50000+	7	7.50255-179649	3	52	613	
1.72046+	7	4.29831-18	2	0.00000+	7	2.36639-19				9649	3	52	614	
									9649	3	0	615		
9.62490+	4	2.46936+	2		0	3		0		09649	3	53	616	
0.0	+ 0-5.22000+	4		0	0		1		309649	3	53	617		
30		3		0	0		0		09649	3	53	618		
5.24114+	4	0.0	+ 0	8.00000+	4	4.83699-	2	1.00000+	5	7.21970-	29649	3	53	619
1.10445+	5	8.16383-	2	1.10546+	5	8.17201-	2	1.46591+	5	9.89514-	29649	3	53	620
1.50000+	5	9.99853-	2	2.00000+	5	1.10589-	1	2.08842+	5	1.12198-	19649	3	53	621
2.20891+	5	1.12973-	1	3.00000+	5	1.12842-	1	4.00000+	5	1.07361-	19649	3	53	622
5.00000+	5	1.11798-	1	6.00000+	5	1.07234-	1	8.00000+	5	9.21120-	29649	3	53	623
1.00000+	6	7.52190-	2	1.50000+	6	3.77728-	2	2.00000+	6	1.23734-	29649	3	53	624
3.00000+	6	1.03203-	3	4.00000+	6	1.16463-	4	4.73180+	6	2.40700-	59649	3	53	625
5.00000+	6	1.28350-	5	6.00000+	6	4.89348-	7	8.00000+	6	4.36866-109649	3	53	626	
1.00000+	7	4.99353-13	1	0.09696+	7	3.70759-14	1	1.30000+	7	2.26630-159649	3	53	627	
1.50000+	7	9.03703-17	1	1.72046+	7	5.23126-18	2	0.00000+	7	2.90809-199649	3	53	628	
									9649	3	0	629		
9.62490+	4	2.46936+	2		0	4		0		09649	3	54	630	
0.0	+ 0-1.10000+	5		0	0		1		279649	3	54	631		
27		3		0	0		0		09649	3	54	632		
1.10445+	5	0.0	+ 0	1.10546+	5	1.37019-	7	1.46591+	5	7.09312-	49649	3	54	633
1.50000+	5	7.98091-	4	2.00000+	5	2.55810-	3	2.08842+	5	2.97456-	39649	3	54	634
2.20891+	5	3.54711-	3	3.00000+	5	8.57212-	3	4.00000+	5	1.61845-	29649	3	54	635
5.00000+	5	2.59478-	2	6.00000+	5	3.31278-	2	8.00000+	5	3.95076-	29649	3	54	636
1.00000+	6	3.81761-	2	1.50000+	6	2.30128-	2	2.00000+	6	8.20233-	39649	3	54	637
3.00000+	6	7.78029-	4	4.00000+	6	9.75846-	5	4.73180+	6	2.14598-	59649	3	54	638
5.00000+	6	1.16754-	5	6.00000+	6	4.71763-	7	8.00000+	6	4.47110-109649	3	54	639	
1.00000+	7	5.29742-13	1	0.09696+	7	3.97873-14	1	1.30000+	7	2.47387-159649	3	54	640	
1.50000+	7	1.00112-16	1	1.72046+	7	5.87400-18	2	0.00000+	7	3.30585-199649	3	54	641	
									9649	3	0	642		
9.62490+	4	2.46936+	2		0	5		0		09649	3	55	643	
0.0	+ 0-1.10100+	5		0	0		1		269649	3	55	644		
26		3		0	0		0		09649	3	55	645		
1.10546+	5	0.0	+ 0	1.46591+	5	3.33733-	2	1.50000+	5	3.62052-	29649	3	55	646

2.00000+	5	6.71793-	2	2.08842+	5	7.12005-	2	2.20891+	5	7.54453-	29649	3	55	647
3.00000+	5	8.94790-	2	4.00000+	5	9.20305-	2	5.00000+	5	9.90774-	29649	3	55	648
6.00000+	5	9.67461-	2	8.00000+	5	8.48773-	2	1.00000+	6	7.04077-	29649	3	55	649
1.50000+	6	3.64656-	2	2.00000+	6	1.21545-	2	3.00000+	6	1.02473-	39649	3	55	650
4.00000+	6	1.15742-	4	4.73180+	6	2.39005-	5	5.00000+	6	1.27397-	59649	3	55	651
6.00000+	6	4.85900-	7	8.00000+	6	4.34749-10	1	1.00000+	7	4.97407-139649	3	55	652	
1.09696+	7	3.69432-14	1	1.30000+	7	2.25831-15	1	1.50000+	7	9.00873-179649	3	55	653	
1.72046+	7	5.21980-18	2	2.00000+	7	2.90320-19				9649	3	55	654	
										9649	3	0	655	
9.62490+	4	2.46936+	2		0		6		0	09649	3	56	656	
0.0	+ 0-1.46000+	5		0		0		1		259649	3	56	657	
25			3	0		0		0		09649	3	56	658	
1.46591+	5	0.0	+ 0	1.50000+	5	2.37331-	5	2.00000+	5	1.25803-	39649	3	56	659
2.08842+	5	1.58503-	3	2.20891-	5	2.06042-	3	3.00000+	5	6.43734-	39649	3	56	660
4.00000+	5	1.35657-	2	5.00000+	5	2.28478-	2	6.00000+	5	2.99805-	29649	3	56	661
8.00000+	5	3.68088-	2	1.00000+	6	3.61752-	2	1.50000+	6	2.23955-	29649	3	56	662
2.00000+	6	8.08901-	3	3.00000+	6	7.73201-	4	4.00000+	6	9.70572-	59649	3	56	663
4.73180+	6	2.13380-	5	5.00000+	6	1.16075-	5	6.00000+	6	4.69331-	79649	3	56	664
8.00000+	6	4.45605-10	1	1.00000+	7	5.28343-13	1	0.9696+	7	3.96923-149649	3	56	665	
1.30000+	7	2.46927-15	1	1.50000+	7	9.99085-17	1	1.72046+	7	5.86557-189649	3	56	666	
2.00000+	7	3.30223-19								9649	3	56	667	
										9649	3	0	668	
9.62490+	4	2.46936+	2		0		7		0	09649	3	57	669	
0.0	+ 0-2.08000+	5		0		0		1		229649	3	57	670	
22			3	0		0		0		09649	3	57	671	
2.08842+	5	0.0	+ 0	2.20891+	5	4.04165-	2	3.00000+	5	1.88372-	19649	3	57	672
4.00000+	5	2.41897-	1	5.00000+	5	2.54869-	1	6.00000+	5	2.26015-	19649	3	57	673
8.00000+	5	1.55713-	1	1.00000+	6	1.05184-	1	1.50000+	6	4.22274-	29649	3	57	674
2.00000+	6	1.29465-	2	3.00000+	6	9.66597-	4	4.00000+	6	9.69335-	59649	3	57	675
4.73180+	6	1.85650-	5	5.00000+	6	9.64587-	6	6.00000+	6	3.42449-	79649	3	57	676
8.00000+	6	2.87600-10	1	1.00000+	7	3.15253-13	1	0.9696+	7	2.30931-149649	3	57	677	
1.30000+	7	1.38072-15	1	1.50000+	7	5.38610-17	1	1.72046+	7	3.06761-189649	3	57	678	
2.00000+	7	1.67827-19								9649	3	57	679	
										9649	3	0	680	
9.62490+	4	2.46936+	2		0		98		0	09649	3	91	681	
0.0	+ 0-2.20000+	5		0		0		1		219649	3	91	682	
21			3	0		0		0		09649	3	91	683	
2.20891+	5	0.0	+ 0	3.00000+	5	2.84646-	2	4.00000+	5	1.08604-	19649	3	91	684
5.00000+	5	2.21193-	1	6.00000+	5	3.19974-	1	8.00000+	5	4.92544-	19649	3	91	685
1.00000+	6	6.44619-	1	1.50000+	6	9.39693-	1	2.00000+	6	8.96439-	19649	3	91	686
3.00000+	6	6.67828-	1	4.00000+	6	7.19345-	1	4.73180+	6	7.95735-	19649	3	91	687
5.00000+	6	7.72208-	1	6.00000+	6	2.41959-	1	8.00000+	6	9.16033-	39649	3	91	688
1.00000+	7	3.00012-	4	1.09696+	7	1.00459-	4	1.30000+	7	1.17423-	49649	3	91	689
1.50000+	7	6.98441-	5	1.72046+	7	6.54017-	5	2.00000+	7	9.84463-	59649	3	91	690
										9649	3	0	691	
9.62490+	4	2.46936+	2		0		99		0	09649	3102		692	
0.0	+ 0 1.58500+	6		0		0		3		389649	3102		693	
3			5	5		2		38		59649	3102		694	
1.00000-	5	8.05000+	1	2.53000-	2	1.60000+	0	4.15000+	0	1.24930-	19649	3102		695
4.15000+	0	0.0	+ 0	3.00000+	4	0.0	+ 0	3.00000+	4	4.35811-	19649	3102		696
4.25717+	4	3.26927-	1	5.00000+	4	2.78456-	1	5.24114+	4	2.65102-	19649	3102		697
8.00000+	4	1.71226-	1	1.00000+	5	1.39047-	1	1.10445+	5	1.27950-	19649	3102		698
1.10546+	5	1.27855-	1	1.46591+	5	1.00270-	1	1.50000+	5	9.84589-	29649	3102		699
2.00000+	5	8.09388-	2	2.08842+	5	7.91735-	2	2.20891+	5	7.36049-	29649	3102		700
3.00000+	5	5.88457-	2	4.00000+	5	4.90427-	2	5.00000+	5	4.75975-	29649	3102		701
6.00000+	5	4.39838-	2	8.00000+	5	3.79008-	2	1.00000+	6	3.37539-	29649	3102		702
1.50000+	6	2.64697-	2	2.00000+	6	1.55217-	2	3.00000+	6	4.17290-	39649	3102		703
4.00000+	6	1.39580-	3	4.73180+	6	5.98859-	4	5.00000+	6	4.10522-	49649	3102		704
6.00000+	6	3.80067-	5	8.00000+	6	2.21517-	7	1.00000+	7	2.27889-	99649	3102		705
1.09696+	7	5.19891-10	1	1.30000+	7	3.45083-10	1	1.50000+	7	1.45009-109649	3102			706
1.72046+	7	1.04490-10	2	2.00000+	7	1.25703-10				9649	3102			707
										9649	3	0	708	
9.62490+	4	2.46936+	2		0		0		0	09649	3251		709	
0.0	+ 0 0.0	+ 0		0		0		1		379649	3251		710	
37			3	0		0		0		09649	3251		711	
1.00000-	5	2.69975-	3	1.00000+	3	3.17385-	3	1.00000+	4	1.04266-	29649	3251		712
2.63061+	4	2.92981-	2	3.00000+	4	3.46938-	2	4.25717+	4	5.09746-	29649	3251		713
5.00000+	4	6.09196-	2	5.24114+	4	6.42066-	2	8.00000+	4	1.02342-	19649	3251		714
1.00000+	5	1.29924-	1	1.10445+	5	1.43998-	1	1.10546+	5	1.44132-	19649	3251		715
1.46591+	5	1.90714-	1	1.50000+	5	1.94924-	1	2.00000+	5	2.51743-	19649	3251		716
2.08842+	5	2.60741-	1	2.20891+	5	2.73192-	1	3.00000+	5	3.43206-	19649	3251		717
4.00000+	5	4.09397-	1	5.00000+	5	4.52325-	1	6.00000+	5	4.85229-	19649	3251		718

8.00000+	5	5.24263-	1	1.00000+	6	5.40286-	1	1.50000+	6	5.65019-	19649	3251	719		
2.00000+	6	6.15593-	1	3.00000+	6	7.04386-	1	4.00000+	6	7.59808-	19649	3251	720		
4.73180+	6	7.88104-	1	5.00000+	6	7.96111-	1	6.00000+	6	8.15965-	19649	3251	721		
8.00000+	6	8.22216-	1	1.00000+	7	8.21975-	1	1.09696+	7	8.31181-	19649	3251	722		
1.30000+	7	8.63281-	1	1.50000+	7	8.96369-	1	1.72046+	7	9.23859-	19649	3251	723		
2.00000+	7	9.43292-	1								9649	3251	724		
											9649	3	725		
											9649	0	726		
9.62490+	4	2.46936+	2		1		1		0		09649	4	2	727	
0.0	+	0	2.46936+	2		0		2		441		209649	4	2	728
1.00000+	0	2.69975-	3	3.27991-	6-1.51610-18	0.0		+ 0	0.0		+ 09649	4	2	729	
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	730	
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	731	
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	732	
1.12454-	5	1.26499-	8	7.68353-12-7.62520-	15	0.0		+ 0	0.0		+ 09649	4	2	733	
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	734	
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	735	
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	736	
0.0	+	0	-2.69971-	3	9.99974-	1.6.94213-	3	2.34277-	5	4.59995-	89649	4	2	736	
5.64082-11	2	4.45221-14	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	737	
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	738	
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	739	
9.99950-	1	8.99895-	3	3.97558-	5	1.08364-	7	1.97698-10	2.55059-139649	4	2	740			
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	741	
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	742	
0.0	+	0	-3.79490-	8	2.24902-	5-6.94193-	3	9.99917-	1.1.10440-	29649	4	2	743		
6.02064-	5	2.08056-	7	4.94084-10	0.0		+ 0	0.0	+ 0	0.0	+ 09649	4	2	744	
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	745	
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	746	
3.90449-	5-8.99861-	3	9.99876-	1	1.30826-	2	8.47695-	5	3.53973-	79649	4	2	747		
-3.62805-	8-7.61147-10	0.0	+	0	0.0	+	0	0.0	+ 0	0.0	+ 09649	4	2	748	
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	749	
0.0	+	0	-5.94056-13	4	4.47063-10-2.01240-	7	5.96312-	5-1.10435-	29649	4	2	750			
9.99827-	1	1.51173-	2	1.13397-	4	5.52445-	7-4.88824-	8-1.40945-	99649	4	2	751			
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	752	
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	753	
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	754	
9.87343-10-3.46748-	7	8.42848-	5-1.30819-	2	9.99769-	1.1.71494-	29649	4	2	755					
1.46157-	4	8.13398-	7-3.49399-	8-1.27066-	9	0.0	+	0	0.0		+ 09649	4	2	756	
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	757	
0.0	+	0	-9.52572-18	8.42195-15-4.69138-12	1.87227-	9-5.46119-	79649	4	2	757					
1.13019-	4-1.51164-	2	9.99704-	1	1.91796-	2	1.83047-	4	1.14573-	69649	4	2	758		
-2.98100-	8-7.27336-10	0.0	+	0	0.0	+	0	0.0	+ 0	0.0	+ 09649	4	2	759	
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	760	
2.17924-14-9.63350-12	3.21981-	9-8.07690-	7	1.45841-	4-1.71482-	29649	4	2	761						
9.99630-	1	2.12084-	2	2.24027-	4	1.55727-	6-5.03582-	8-7.90879-109649	4	2	762				
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	763	
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	764	
5.16452-	9-1.13978-	6	1.82754-	4-1.91781-	2	9.99548-	1.2.32361-	29649	4	2	765				
2.69077-	4	2.05527-	6-8.49373-	8-3.88905-	9	0.0	+	0	0.0		+ 09649	4	2	766	
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	767	
1.92526-19-1.34975-16	9.46221-14-3.06744-11	7.85770-	9-1.55068-	69649	4	2	768								
2.23758-	4-2.12066-	2	9.99458-	1	2.52628-	2	3.18208-	4	2.64572-	69649	4	2	769		
-1.51068-	8-1.17130-	9	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	770	
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	771	
1.72827-13-4.98065-11	1.14674-	8-2.04870-	6	2.68854-	4-2.32339-	29649	4	2	772						
9.99359-	1	2.72888-	2	3.71547-	4	3.34585-	6-2.34266-	8-3.67904-	99649	4	2	773			
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	774	
0.0	+	0	0.0	+	0	1.13153-18-8.37839-16	2.97165-13-7.72742-119649	4	2	775					
1.61784-	8-2.64214-	6	3.18043-	4-2.52602-	2	9.99253-	1.2.93139-	29649	4	2	776				
4.28896-	4	4.15254-	6	4.12446-	8	4.34823-10	0.0	+	0	0.0	+ 09649	4	2	777	
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	778	
2.33148-18-1.59408-15	4.86775-13-1.15504-10	2.21923-	8-3.33927-	69649	4	2	779								
3.71324-	4-2.72857-	2	9.99138-	1	3.13384-	2	4.90415-	4	5.08621-	69649	4	2	780		
-1.18587-	8-2.30680-	9	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	781	
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	782	
7.66124-13-1.67347-10	2.97275-	8-4.14839-	6	4.28698-	4-2.93105-	29649	4	2	783						
9.99015-	1	3.33623-	2	5.55900-	4	6.14141-	6	1.39870-	8-1.55155-	99649	4	2	784		
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	785	
0.0	+	0	-0.1.42585-20	7.43650-18-4.69992-15	1.16590-12-2.36114-109649	4	2	786							
3.90191-	8-5.07779-	6	4.90162-	4-3.13345-	2	9.98884-	1.3.53856-	29649	4	2	787				
6.25558-	4	7.33710-	6	2.26672-	8	0.0	+	0	0.0		+ 09649	4	2	788	
0.0	+	0	0.0	+	0	0.0	+	0	0.0		+ 09649	4	2	789	
1.22107-17-7.53774-15	1.72396-12-3.25608-10	5.03191-	8-6.13575-	69649	4	2	790								

5.55716-	4	-3.33578-	2	9.98745-	1	3.74082-	2	6.99287-	4	8.67652-	69649	4	2	791				
0.0	+	0	0.0	+	0	0.0	+	0	0.0	+	0	0.0	+	09649	4	2	792	
0.0	+	0	0.0	+	0	0.0	+	0-4.03575-	20	1.92864-17	-1.16880	-149649	4	2	793			
2.48641-	12	-4.40160-	10	6.38959-	8	-7.33054-	6	6.25360-	4	-3.53805-	29649	4	2	794				
9.98597-	1	3.94302-	2	7.77124-	4	0.0	+	0	0.0	+	0	0.0	+	09649	4	2	795	
0.0	+	0	0.0	+	0	0.0	+	0	0.0	+	0	0.0	+	09649	4	2	796	
0.0	+	0-6.36254-	20	2.95086-17	-1	1.76160-14	3.50864-12	-5.84660-	109649	4	2	797						
8.00352-	8	-8.67045-	6	6.99092-	4	-3.74025-	2	9.98442-	1	4.14517-	29649	4	2	798				
0.0	+	0	0.0	+	0	0.0	+	0	0.0	+	0	0.0	+	09649	4	2	799	
0.0	+	0	0.0	+	0	0.0	+	0	0.0	+	0	0.0	+	0-9.71291-	209649	4	2	800
4.39515-	17	-2.59089-	14	4.85654-12	-7.64595-	10	9.90389-	-8	-1.01637-	59649	4	2	801					
7.76912-	4	-3.94239-	2	9.98278-	1					9649	4	2	802					
0.0	+	0	0.0	+	0		0	0	1	379649	4	2	803					
37		2		0	0		0	0	0	09649	4	2	804					
0.0	+	0	1.00000-	5				2		09649	4	2	805					
0.0	+	0	0.0	+	0					9649	4	2	806					
0.0	+	0	1.00000+	3			0	0	2	09649	4	2	807					
4.74247-	4	5.43706-	5							9649	4	2	808					
0.0	+	0	1.00000+	4		0	0	4		09649	4	2	809					
7.73612-	3	3.39100-	3	3.37189-	7	3.12226-	9			9649	4	2	810					
0.0	+	0	2.63061+	4		0	0	4		09649	4	2	811					
2.66181-	2	7.22987-	3	6.82990-	6	1.19583-	7			9649	4	2	812					
0.0	+	0	3.00000+	4		0	0	4		09649	4	2	813					
3.20141-	2	7.34268-	3	1.04307-	5	1.80253-	7			9649	4	2	814					
0.0	+	0	4.25717+	4		0	0	6		09649	4	2	815					
4.83020-	2	9.85281-	3	3.06443-	5	9.78508-	7	-1.89869-10	2.30207-109649	4	2	816						
0.0	+	0	5.00000+	4		0	0	6		09649	4	2	817					
5.82505-	2	1.11680-	2	4.99123-	5	1.66103-	6	-4.04435-10	5.52527-109649	4	2	818						
0.0	+	0	5.24114+	4		0	0	6		09649	4	2	819					
6.15387-	2	1.15748-	2	5.75904-	5	1.98442-	6	-5.03655-10	7.07580-109649	4	2	820						
0.0	+	0	8.00000+	4		0	0	6		09649	4	2	821					
9.96878-	2	1.65642-	2	2.06871-	4	9.54668-	6	-3.32738-	9	4.87576-	99649	4	2	822				
0.0	+	0	1.00000+	5		0	0	6		09649	4	2	823					
1.27282-	1	2.08211-	2	4.03914-	4	2.24136-	5	-8.06900-	9	1.41565-	89649	4	2	824				
0.0	+	0	1.10445+	5		0	0	6		09649	4	2	825					
1.41362-	1	2.32683-	2	5.42684-	4	3.27413-	5	-1.13382-	8	2.31740-	89649	4	2	826				
0.0	+	0	1.10546+	5		0	0	6		09649	4	2	827					
1.41496-	1	2.32925-	2	5.44147-	4	3.28548-	5	-1.13709-	8	2.32788-	89649	4	2	828				
0.0	+	0	1.46591+	5		0	0	6		09649	4	2	829					
1.88103-	1	3.24699-	2	1.24870-	3	9.46973-	5	-1.66225-	8	8.17451-	89649	4	2	830				
0.0	+	0	1.50000+	5		0	0	6		09649	4	2	831					
1.92316-	1	3.33966-	2	1.33519-	3	1.03321-	4	-1.52264-	8	9.12424-	89649	4	2	832				
0.0	+	0	2.00000+	5		0	0	6		09649	4	2	833					
2.49175-	1	4.78721-	2	3.04654-	3	3.06091-	4	1.66783-	7	4.00523-	79649	4	2	834				
0.0	+	0	2.08842+	5		0	0	6		09649	4	2	835					
2.58180-	1	5.05541-	2	3.43989-	3	3.59985-	4	2.62060-	7	5.08479-	79649	4	2	836				
0.0	+	0	2.20891+	5		0	0	6		09649	4	2	837					
2.70641-	1	5.42885-	2	4.03222-	3	4.44234-	4	4.49753-	7	6.96886-	79649	4	2	838				
0.0	+	0	3.00000+	5		0	0	8		09649	4	2	839					
3.40723-	1	7.89430-	2	9.40753-	3	1.41082-	3	8.73534-	6	4.33171-	69649	4	2	840				
2.69737-	8	7.49242-11								9649	4	2	841					
0.0	+	0	4.00000+	5		0	0	8		09649	4	2	842					
4.06997-	1	1.09487-	1	2.02607-	2	4.10503-	3	5.71515-	5	2.36785-	59649	4	2	843				
2.16039-	7	6.45658-10								9649	4	2	844					
0.0	+	0	5.00000+	5		0	0	8		09649	4	2	845					
4.50000-	1	1.37339-	1	3.55464-	2	9.20439-	3	2.40614-	4	8.87642-	59649	4	2	846				
1.07853-	6	3.51371-	9							9649	4	2	847					
0.0	+	0	6.00000+	5		0	0	10		09649	4	2	848					
4.82976-	1	1.63693-	1	5.55881-	2	1.76952-	2	7.87862-	4	2.69247-	49649	4	2	849				
5.29404-	6	4.90117-	7	5.26967-	9	2.34057-10				9649	4	2	850					
0.0	+	0	8.00000+	5		0	0	10		09649	4	2	851					
5.22145-	1	2.13992-	1	1.06565-	1	4.74399-	2	4.49375-	3	1.39941-	39649	4	2	852				
4.10246-	5	4.76784-	6	7.03914-	8	3.99031-	9			9649	4	2	853					
0.0	+	0	1.00000+	6		0	0	10		09649	4	2	854					
5.38303-	1	2.63953-	1	1.62565-	1	9.42447-	2	1.52137-	2	4.59423-	39649	4	2	855				
1.87173-	4	2.58262-	5	5.02848-	7	3.50105-	8			9649	4	2	856					
0.0	+	0	1.50000+	6		0	0	12		09649	4	2	857					
5.63333-	1	3.74410-	1	2.65443-	1	2.32550-	1	8.27824-	2	2.65239-	29649	4	2	858				
2.08786-	3	3.86379-	4	1.95137-	5	1.53703-	6	7.25431-	8	2.47274-	99649	4	2	859				
0.0	+	0	2.00000+	6		0	0	12		09649	4	2	860					
6.14088-	1	4.41292-	1	3.19752-	1	3.13071-	1	1.65619-	1	5.99133-	29649	4	2	861				
7.87556-	3	1.94111-	3	1.41683-	4	1.74272-	5	1.04542-	6	5.82993-	89649	4	2	862				

0.0	+ 0	3.00000+ 6	0	0	14	09649	4	2	863	
7.03112-	1	5.26899- 1	4.10653- 1	3.55714- 1	2.55182- 1	1.16876- 1	19649	4	2	864
3.20677-	2	1.17746- 2	1.59030- 3	3.74522- 4	2.40177- 5	4.23877- 5	69649	4	2	865
2.49772-	7	3.03560- 9					9649	4	2	866
0.0	+ 0	4.00000+ 6	0	0	16	09649	4	2	867	
7.58752-	1	6.07610- 1	4.87397- 1	3.89858- 1	2.96745- 1	1.63730- 1	19649	4	2	868
6.45274-	2	2.98672- 2	7.51276- 3	2.32613- 3	2.18231- 4	6.80957- 5	59649	4	2	869
6.33483-	6	8.74116- 7	3.36274- 8	1.64841- 9			9649	4	2	870
0.0	+ 0	4.73180+ 6	0	0	16	09649	4	2	871	
7.87176-	1	6.55443- 1	5.33210- 1	4.26285- 1	3.22981- 1	1.99420- 1	19649	4	2	872
9.07289-	2	4.82034- 2	1.82325- 2	6.36023- 3	1.09499- 3	3.28199- 4	49649	4	2	873
3.45740-	5	5.91805- 6	2.72384- 7	1.50679- 8			9649	4	2	874
0.0	+ 0	5.00000+ 6	0	0	16	09649	4	2	875	
7.95222-	1	6.69660- 1	5.48744- 1	4.41034- 1	3.33273- 1	2.13245- 1	19649	4	2	876
1.01296-	1	5.60104- 2	2.38652- 2	8.78414- 3	1.85032- 3	5.28475- 4	49649	4	2	877
5.89900-	5	1.07418- 5	5.41778- 7	3.12241- 8			9649	4	2	878
0.0	+ 0	6.00000+ 6	0	0	18	09649	4	2	879	
8.15171-	1	7.04739- 1	5.94677- 1	4.89379- 1	3.71800- 1	2.61367- 1	19649	4	2	880
1.42335-	1	8.49326- 2	4.90506- 2	2.31597- 2	7.95419- 3	2.06227- 3	39649	4	2	881
3.15373-	4	6.38220- 5	1.13541- 5	1.01065- 6	1.27399- 7	8.06192- 8	99649	4	2	882
0.0	+ 0	8.00000+ 6	0	0	20	09649	4	2	883	
8.21429-	1	7.07836- 1	6.18111- 1	5.31222- 1	4.28180- 1	3.25526- 1	19649	4	2	884
2.20977-	1	1.42409- 1	1.07296- 1	7.60493- 2	3.90274- 2	1.33793- 2	29649	4	2	885
3.88626-	3	1.15903- 3	2.54786- 4	4.53056- 5	8.93634- 6	9.22598- 7	79649	4	2	886
1.08111-	7	6.56755- 9					9649	4	2	887
0.0	+ 0	1.00000+ 7	0	0	20	09649	4	2	888	
8.21137-	1	6.88536- 1	6.04399- 1	5.35212- 1	4.57760- 1	3.76367- 1	19649	4	2	889
2.95975-	1	2.22813- 1	1.77368- 1	1.50388- 1	1.04178- 1	5.31923- 1	29649	4	2	890
2.27390-	2	8.06394- 3	2.16702- 3	5.05858- 4	1.23213- 4	2.01849- 4	59649	4	2	891
3.25766-	6	5.60247- 7					9649	4	2	892
0.0	+ 0	1.09696+ 7	0	0	20	09649	4	2	893	
8.30352-	1	6.91905- 1	6.02153- 1	5.32863- 1	4.64686- 1	3.95124- 1	19649	4	2	894
3.24181-	1	2.60318- 1	2.11461- 1	1.83525- 1	1.41014- 1	8.36570- 1	29649	4	2	895
4.01652-	2	1.54488- 2	4.72252- 3	1.25905- 3	3.31735- 4	6.29042- 4	59649	4	2	896
1.19277-	5	2.24381- 6					9649	4	2	897
0.0	+ 0	1.30000+ 7	0	0	20	09649	4	2	898	
8.62549-	1	7.27686- 1	6.24699- 1	5.48464- 1	4.86663- 1	4.28812- 1	19649	4	2	899
3.73183-	1	3.22188- 1	2.76043- 1	2.40137- 1	2.03502- 1	1.47520- 1	19649	4	2	900
8.65007-	2	4.13558- 2	1.66160- 2	5.81103- 3	1.84604- 3	4.70795- 4	49649	4	2	901
1.22132-	4	2.57222- 5					9649	4	2	902
0.0	+ 0	1.50000+ 7	0	0	20	09649	4	2	903	
8.95779-	1	7.80682- 1	6.78975- 1	5.98432- 1	5.30692- 1	4.73049- 1	19649	4	2	904
4.20695-	1	3.72354- 1	3.27645- 1	2.85830- 1	2.45518- 1	1.95995- 1	19649	4	2	905
1.34571-	1	7.84269- 2	3.92994- 2	1.71282- 2	6.53590- 3	2.09938- 4	39649	4	2	906
6.21670-	4	1.53615- 4					9649	4	2	907
0.0	+ 0	1.72046+ 7	0	0	20	09649	4	2	908	
9.23407-	1	8.31794- 1	7.41238- 1	6.61049- 1	5.88845- 1	5.27430- 1	19649	4	2	909
4.71044-	1	4.20502- 1	3.72385- 1	3.26906- 1	2.81240- 1	2.33582- 1	19649	4	2	910
1.78269-	1	1.20938- 1	7.25544- 2	3.84440- 2	1.78341- 2	7.11525- 2	39649	4	2	911
2.49593-	3	7.54967- 4					9649	4	2	912
0.0	+ 0	2.00000+ 7	0	0	20	09649	4	2	913	
9.42946-	1	8.71194- 1	7.95901- 1	7.22511- 1	6.52535- 1	5.88026- 1	19649	4	2	914
5.28051-	1	4.72687- 1	4.20231- 1	3.70138- 1	3.20887- 1	2.71463- 1	19649	4	2	915
2.20473-	1	1.67409- 1	1.17035- 1	7.48812- 2	4.31316- 2	2.18366- 2	29649	4	2	916
9.62245-	3	3.68020- 3					9649	4	2	917
							9649	4	0	918
9.62490+	4	2.46936+ 2	0	2	0	09649	4	16	919	
0.0	+ 0	2.46936+ 2	0	1	0	09649	4	16	920	
0.0	+ 0	0.0	+ 0	0	1	29649	4	16	921	
	2	2	0	0	0	09649	4	16	922	
0.0	+ 0	4.73180+ 6	0	0	1	29649	4	16	923	
	2	2	0	0	0	09649	4	16	924	
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000- 1	29649	4	16	925
0.0	+ 0	2.00000+ 7	0	0	1	29649	4	16	926	
	2	2	0	0	0	09649	4	16	927	
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000- 1	9649	4	16	928
						9649	4	0	929	
9.62490+	4	2.46936+ 2	0	2	0	09649	4	17	930	
0.0	+ 0	2.46936+ 2	0	1	0	09649	4	17	931	
0.0	+ 0	0.0	+ 0	0	1	29649	4	17	932	
	2	2	0	0	0	09649	4	17	933	
0.0	+ 0	1.09696+ 7	0	0	1	29649	4	17	934	

2	2	0	0	0	09649	4	17	935	
-1.00000+	0 5.00000-	1 1.00000+	0 5.00000-	1	9649	4	17	936	
0.0	+ 0 2.00000+	7	0	0	29649	4	17	937	
2	2	0	0	0	09649	4	17	938	
-1.00000+	0 5.00000-	1 1.00000+	0 5.00000-	1	9649	4	17	939	
9.62490+	4 2.46936+	2	0	2	0	09649	4	18	941
0.0	+ 0 2.46936+	2	0	1	0	09649	4	18	942
0.0	+ 0 0.0	+ 0	0	0	1	29649	4	18	943
2	2	0	0	0	0	09649	4	18	944
0.0	+ 0 1.00000-	5	0	0	1	29649	4	18	945
2	2	0	0	0	0	09649	4	18	946
-1.00000+	0 5.00000-	1 1.00000+	0 5.00000-	1	9649	4	18	947	
0.0	+ 0 2.00000+	7	0	0	1	29649	4	18	948
2	2	0	0	0	0	09649	4	18	949
-1.00000+	0 5.00000-	1 1.00000+	0 5.00000-	1	9649	4	18	950	
9.62490+	4 2.46936+	2	0	2	0	09649	4	37	951
0.0	+ 0 2.46936+	2	0	1	0	09649	4	37	952
0.0	+ 0 0.0	+ 0	0	0	1	29649	4	37	953
2	2	0	0	0	0	09649	4	37	954
0.0	+ 0 1.61482+	7	0	0	1	29649	4	37	955
2	2	0	0	0	0	09649	4	37	956
-1.00000+	0 5.00000-	1 1.00000+	0 5.00000-	1	9649	4	37	957	
0.0	+ 0 2.00000+	7	0	0	1	29649	4	37	958
2	2	0	0	0	0	09649	4	37	959
-1.00000+	0 5.00000-	1 1.00000+	0 5.00000-	1	9649	4	37	960	
9.62490+	4 2.46936+	2	0	1	0	09649	4	37	961
0.0	+ 0 2.46936+	2	0	2	0	09649	4	51	962
0.0	+ 0 0.0	+ 0	0	0	1	49649	4	51	963
4	2	0	0	0	0	09649	4	51	964
0.0	+ 0 2.63061+	4	0	0	2	09649	4	51	965
0.0	+ 0 0.0	+ 0	0	0	0	9649	4	51	966
0.0	+ 0 8.00000+	6	0	0	18	09649	4	51	967
0.0	+ 0 1.37531-	1 0.0	+ 0 3.22618-	2 0.0	+ 0 5.26905-	39649	4	51	968
0.0	+ 0 -7.02130-	4 0.0	+ 0 -8.27745-	4 0.0	+ 0 -2.18721-	49649	4	51	969
0.0	+ 0 -1.56415-	5 0.0	+ 0 -1.95191-	7 0.0	+ 0 -2.38728-	89649	4	51	970
0.0	+ 0 1.30000+	7	0	0	20	09649	4	51	971
0.0	+ 0 1.57156-	1 0.0	+ 0 4.68681-	2 0.0	+ 0 1.33767-	29649	4	51	972
0.0	+ 0 2.24506-	3 0.0	+ 0 -6.57920-	4 0.0	+ 0 -7.33788-	49649	4	51	973
0.0	+ 0 -2.65047-	4 0.0	+ 0 -3.26054-	5 0.0	+ 0 -2.99295-	69649	4	51	974
0.0	+ 0 -2.42118-	7			9649	4	51	975	
0.0	+ 0 2.00000+	7	0	0	20	09649	4	51	976
0.0	+ 0 1.73825-	1 0.0	+ 0 6.10976-	2 0.0	+ 0 2.31089-	29649	4	51	977
0.0	+ 0 7.72630-	3 0.0	+ 0 1.61872-	3 0.0	+ 0 -3.42657-	49649	4	51	978
0.0	+ 0 -5.83144-	4 0.0	+ 0 -3.21672-	4 0.0	+ 0 -1.01159-	49649	4	51	979
0.0	+ 0 -2.01706-	5			9649	4	51	980	
9.62490+	4 2.46936+	2	0	1	0	09649	4	52	981
0.0	+ 0 2.46936+	2	0	2	0	09649	4	52	982
0.0	+ 0 0.0	+ 0	0	0	1	49649	4	52	983
4	2	0	0	0	0	09649	4	52	984
0.0	+ 0 4.25717+	4	0	0	2	09649	4	52	985
0.0	+ 0 0.0	+ 0	0	0	0	9649	4	52	986
0.0	+ 0 8.00000+	6	0	0	18	09649	4	52	987
0.0	+ 0 8.97154-	2 0.0	+ 0 3.78624-	3 0.0	+ 0 -5.50012-	39649	4	52	988
0.0	+ 0 -2.40748-	3 0.0	+ 0 -2.69389-	4 0.0	+ 0 7.60758-	59649	4	52	989
0.0	+ 0 8.36859-	6 0.0	+ 0 9.02006-	8 0.0	+ 0 1.65047-	89649	4	52	990
0.0	+ 0 1.30000+	7	0	0	20	09649	4	52	991
0.0	+ 0 1.17104-	1 0.0	+ 0 1.78981-	2 0.0	+ 0 -2.28846-	39649	4	52	992
0.0	+ 0 -3.76632-	3 0.0	+ 0 -1.67448-	3 0.0	+ 0 -2.66885-	49649	4	52	993
0.0	+ 0 6.42576-	5 0.0	+ 0 1.30093-	5 0.0	+ 0 1.60314-	69649	4	52	994
0.0	+ 0 1.65319-	7			9649	4	52	995	
0.0	+ 0 2.00000+	7	0	0	20	09649	4	52	996
0.0	+ 0 1.41374-	1 0.0	+ 0 3.40376-	2 0.0	+ 0 4.92635-	39649	4	52	997
0.0	+ 0 -2.40871-	3 0.0	+ 0 -2.74082-	3 0.0	+ 0 -1.43962-	39649	4	52	998
0.0	+ 0 -4.18842-	4 0.0	+ 0 -2.49834-	5 0.0	+ 0 2.45063-	59649	4	52	999
0.0	+ 0 9.50727-	6			9649	4	52	1000	
9.62490+	4 2.46936+	2	0	1	0	09649	4	53	1001
0.0	+ 0 2.46936+	2	0	2	0	09649	4	53	1002
9.62490+	4 2.46936+	2	0	1	0	09649	4	53	1003
0.0	+ 0 2.46936+	2	0	2	0	09649	4	53	1004

0.0	+ 0 0.0	+ 0	0	0	1	49649 4 53 1007
	4	2	0	0	0	09649 4 53 1008
0.0	+ 0 5.24114+	4	0	0	2	09649 4 53 1009
0.0	+ 0 0.0	+ 0				9649 4 53 1010
0.0	+ 0 8.00000+	6	0	0	18	09649 4 53 1011
0.0	+ 0 4.11745-	2 0.0	+ 0-1.22141-	2 0.0	+ 0-4.60920-	39649 4 53 1012
0.0	+ 0 4.12114-	4 0.0	+ 0 4.76504-	4 0.0	+ 0 1.41750-	59649 4 53 1013
0.0	+ 0-2.32658-	6 0.0	+ 0-8.34329-	9 0.0	+ 0-8.53327-	99649 4 53 1014
0.0	+ 0 1.30000+	7	0	0	20	09649 4 53 1015
0.0	+ 0 7.51728-	2 0.0	+ 0-3.43406-	3 0.0	+ 0-7.34038-	39649 4 53 1016
0.0	+ 0-2.11885-	3 0.0	+ 0 3.46666-	4 0.0	+ 0 3.89207-	49649 4 53 1017
0.0	+ 0 3.60087-	5 0.0	+ 0 5.58410-	8 0.0	+ 0-4.46272-	79649 4 53 1018
0.0	+ 0-8.61565-	8				9649 4 53 1019
0.0	+ 0 2.00000+	7	0	0	20	09649 4 53 1020
0.0	+ 0 1.06634-	1 0.0	+ 0 1.08616-	2 0.0	+ 0-5.57082-	39649 4 53 1021
0.0	+ 0-4.62124-	3 0.0	+ 0-1.48660-	3 0.0	+ 0 1.14112-	49649 4 53 1022
0.0	+ 0 3.24636-	4 0.0	+ 0 1.23158-	4 0.0	+ 0 1.74119-	59649 4 53 1023
0.0	+ 0-1.43378-	6				9649 4 53 1024
						9649 4 0 1025
9.62490+	4 2.46936+	2	0	1	0	09649 4 54 1026
0.0	+ 0 2.46936+	2	0	2	0	09649 4 54 1027
0.0	+ 0 0.0	+ 0	0	0	1	49649 4 54 1028
	4	2	0	0	0	09649 4 54 1029
0.0	+ 0 1.10445+	5	0	0	2	09649 4 54 1030
0.0	+ 0 0.0	+ 0				9649 4 54 1031
0.0	+ 0 8.00000+	6	0	0	18	09649 4 54 1032
0.0	+ 0-2.13173-	3 0.0	+ 0-1.37322-	2 0.0	+ 0 8.36073-	49649 4 54 1033
0.0	+ 0 1.19679-	3 0.0	+ 0-1.26408-	4 0.0	+ 0-3.84784-	59649 4 54 1034
0.0	+ 0-1.14459-	6 0.0	+ 0-2.79452-	8 0.0	+ 0 1.48316-	99649 4 54 1035
0.0	+ 0 1.30000+	7	0	0	20	09649 4 54 1036
0.0	+ 0 3.45004-	2 0.0	+ 0-1.41169-	2 0.0	+ 0-4.34138-	39649 4 54 1037
0.0	+ 0 1.03810-	3 0.0	+ 0 7.51704-	4 0.0	+ 0-6.21047-	59649 4 54 1038
0.0	+ 0-3.85765-	5 0.0	+ 0-4.10729-	6 0.0	+ 0-1.86600-	79649 4 54 1039
0.0	+ 0 2.21125-	8				9649 4 54 1040
0.0	+ 0 2.00000+	7	0	0	20	09649 4 54 1041
0.0	+ 0 7.14562-	2 0.0	+ 0-5.77843-	3 0.0	+ 0-8.10467-	39649 4 54 1042
0.0	+ 0-1.97740-	3 0.0	+ 0 7.18144-	4 0.0	+ 0 6.22158-	49649 4 54 1043
0.0	+ 0 8.57756-	5 0.0	+ 0-4.80825-	5 0.0	+ 0-2.03987-	59649 4 54 1044
0.0	+ 0-2.13567-	6				9649 4 54 1045
						9649 4 0 1046
9.62490+	4 2.46936+	2	0	1	0	09649 4 55 1047
0.0	+ 0 2.46936+	2	0	2	0	09649 4 55 1048
0.0	+ 0 0.0	+ 0	0	0	1	49649 4 55 1049
	4	2	0	0	0	09649 4 55 1050
0.0	+ 0 1.10546+	5	0	0	2	09649 4 55 1051
0.0	+ 0 0.0	+ 0				9649 4 55 1052
0.0	+ 0 8.00000+	6	0	0	18	09649 4 55 1053
0.0	+ 0 4.09687-	2 0.0	+ 0-1.22113-	2 0.0	+ 0-4.58978-	39649 4 55 1054
0.0	+ 0 4.12873-	4 0.0	+ 0 4.76452-	4 0.0	+ 0 1.27941-	59649 4 55 1055
0.0	+ 0-2.22750-	6 0.0	+ 0-8.26682-	9 0.0	+ 0-8.12076-	99649 4 55 1056
0.0	+ 0 1.30000+	7	0	0	20	09649 4 55 1057
0.0	+ 0 7.49724-	2 0.0	+ 0-3.49613-	3 0.0	+ 0-7.32634-	39649 4 55 1058
0.0	+ 0-2.10070-	3 0.0	+ 0 3.49993-	4 0.0	+ 0 3.87329-	49649 4 55 1059
0.0	+ 0 3.48029-	5 0.0	+ 0 4.70805-	8 0.0	+ 0-4.45978-	79649 4 55 1060
0.0	+ 0-8.44511-	8				9649 4 55 1061
0.0	+ 0 2.00000+	7	0	0	20	09649 4 55 1062
0.0	+ 0 1.06536-	1 0.0	+ 0 1.08087-	2 0.0	+ 0-5.58370-	39649 4 55 1063
0.0	+ 0-4.61479-	3 0.0	+ 0-1.47820-	3 0.0	+ 0 1.17577-	49649 4 55 1064
0.0	+ 0 3.24165-	4 0.0	+ 0 1.22077-	4 0.0	+ 0 1.71171-	59649 4 55 1065
0.0	+ 0-1.44903-	6				9649 4 55 1066
						9649 4 0 1067
9.62490+	4 2.46936+	2	0	1	0	09649 4 56 1068
0.0	+ 0 2.46936+	2	0	2	0	09649 4 56 1069
0.0	+ 0 0.0	+ 0	0	0	1	49649 4 56 1070
	4	2	0	0	0	09649 4 56 1071
0.0	+ 0 1.46591+	5	0	0	2	09649 4 56 1072
0.0	+ 0 0.0	+ 0				9649 4 56 1073
0.0	+ 0 8.00000+	6	0	0	18	09649 4 56 1074
0.0	+ 0-2.22384-	3 0.0	+ 0-1.37085-	2 0.0	+ 0 8.39650-	49649 4 56 1075
0.0	+ 0 1.19656-	3 0.0	+ 0-1.27462-	4 0.0	+ 0-3.82929-	59649 4 56 1076
0.0	+ 0-1.11430-	6 0.0	+ 0-2.70772-	8 0.0	+ 0 1.43817-	99649 4 56 1077
0.0	+ 0 1.30000+	7	0	0	20	09649 4 56 1078

0.0	+ 0 3.43960- 2 0.0	+ 0 -1.41242- 2 0.0	+ 0 -4.32558- 39649 4 56 1079
0.0	+ 0 1.04177- 3 0.0	+ 0 7.49731- 4 0.0	+ 0 -6.32899- 59649 4 56 1080
0.0	+ 0 -3.82968- 5 0.0	+ 0 -4.05300- 6 0.0	+ 0 -1.81040- 79649 4 56 1081
0.0	+ 0 2.16495- 8		9649 4 56 1082
0.0	+ 0 2.00000+ 7	0 0 20	09649 4 56 1083
0.0	+ 0 7.13858- 2 0.0	+ 0 -5.80133- 3 0.0	+ 0 -8.09990- 39649 4 56 1084
0.0	+ 0 -1.96914- 3 0.0	+ 0 7.20538- 4 0.0	+ 0 6.20751- 49649 4 56 1085
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0.0	+ 0 -2.10494- 6		9649 4 56 1087
			9649 4 0 1088
9.62490+ 4 2.46936+ 2	0 1 0		09649 4 57 1089
0.0	+ 0 2.46936+ 2	0 2 0	09649 4 57 1090
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	4 2 0	0 0 0	09649 4 57 1092
0.0	+ 0 2.08842+ 5	0 0 2	09649 4 57 1093
0.0	+ 0 0.0 + 0		9649 4 57 1094
0.0	+ 0 8.00000+ 6	0. 0 18	09649 4 57 1095
0.0	+ 0 1.36891- 1 0.0	+ 0 3.19169- 2 0.0	+ 0 5.15297- 39649 4 57 1096
0.0	+ 0 -7.07190- 4 0.0	+ 0 -8.20634- 4 0.0	+ 0 -2.17847- 49649 4 57 1097
0.0	+ 0 -1.35936- 5 0.0	+ 0 -1.69593- 7 0.0	+ 0 -2.03712- 89649 4 57 1098
0.0	+ 0 1.30000+ 7	0 0 20	09649 4 57 1099
0.0	+ 0 1.56825- 1 0.0	+ 0 4.65946- 2 0.0	+ 0 1.32086- 29649 4 57 1100
0.0	+ 0 2.17067- 3 0.0	+ 0 -6.72331- 4 0.0	+ 0 -7.28526- 49649 4 57 1101
0.0	+ 0 -2.59945- 4 0.0	+ 0 -3.03456- 5 0.0	+ 0 -2.79294- 69649 4 57 1102
			9649 4 57 1103
0.0	+ 0 -2.15437- 7		09649 4 57 1104
0.0	+ 0 2.00000+ 7	0 0 20	09649 4 57 1105
0.0	+ 0 1.73641- 1 0.0	+ 0 6.09373- 2 0.0	+ 0 2.29909- 29649 4 57 1106
0.0	+ 0 7.65162- 3 0.0	+ 0 1.58060- 3 0.0	+ 0 -3.55035- 49649 4 57 1107
0.0	+ 0 -5.82285- 4 0.0	+ 0 -3.17091- 4 0.0	+ 0 -9.82296- 59649 4 57 1108
			9649 4 57 1109
9.62490+ 4 2.46936+ 2	0 2 0		09649 4 91 1110
0.0	+ 0 2.46936+ 2	0 1 0	09649 4 91 1111
0.0	+ 0 0.0 + 0	0 0 1	29649 4 91 1112
	2 2 0	0 0 0	09649 4 91 1113
0.0	+ 0 2.20891+ 5	0 0 1	29649 4 91 1114
	2 2 0	0 0 0	09649 4 91 1115
-1.00000+ 0 5.00000- 1 1.00000+ 0 5.00000- 1			9649 4 91 1116
0.0	+ 0 2.00000+ 7	0 0 1	29649 4 91 1117
	2 2 0	0 0 0	09649 4 91 1118
-1.00000+ 0 5.00000- 1 1.00000+ 0 5.00000- 1			9649 4 91 1119
			9649 4 0 1120
			9649 0 0 1121
9.62490+ 4 2.46936+ 2	0 0 2		09649 5 16 1122
4.73180+ 6 0.0 + 0	0 9 1		29649 5 16 1123
	2 2 0	0 0 0	09649 5 16 1124
4.73180+ 6 5.00000- 1 2.00000+ 7 5.00000- 1			9649 5 16 1125
0.0	+ 0 0.0 + 0	0 0 1	99649 5 16 1126
	9 2 0	0 0 0	09649 5 16 1127
4.73180+ 6 3.97917+ 5 6.00000+ 6 4.53739+ 5 8.00000+ 6 5.29541+ 59649 5 16 1128			9649 5 16 1128
1.00000+ 7 5.95479+ 5 1.20000+ 7 6.54623+ 5 1.40000+ 7 7.08723+ 59649 5 16 1129			9649 5 16 1129
1.60000+ 7 7.58882+ 5 1.80000+ 7 8.05854+ 5 2.00000+ 7 8.50181+ 59649 5 16 1130			9649 5 16 1130
4.73180+ 6 0.0 + 0	0 9 1		29649 5 16 1131
	2 2 0	0 0 0	09649 5 16 1132
4.73180+ 6 5.00000- 1 2.00000+ 7 5.00000- 1			9649 5 16 1133
0.0	+ 0 0.0 + 0	0 0 1	99649 5 16 1134
	9 2 0	0 0 0	09649 5 16 1135
4.73180+ 6 4.10596+ 5 6.00000+ 6 4.10596+ 5 8.00000+ 6 4.10596+ 59649 5 16 1136			9649 5 16 1136
1.00000+ 7 4.10596+ 5 1.20000+ 7 4.24200+ 5 1.40000+ 7 5.04418+ 59649 5 16 1137			9649 5 16 1137
1.60000+ 7 5.73440+ 5 1.80000+ 7 6.34974+ 5 2.00000+ 7 6.91047+ 59649 5 16 1138			9649 5 0 1139
9.62490+ 4 2.46936+ 2	0 0 3		09649 5 17 1140
1.09696+ 7 0.0 + 0	0 9 1		29649 5 17 1141
	2 2 0	0 0 0	09649 5 17 1142
1.09696+ 7 3.33333- 1 2.00000+ 7 3.33333- 1			9649 5 17 1143
0.0	+ 0 0.0 + 0	0 0 1	69649 5 17 1144
	6 2 0	0 0 0	09649 5 17 1145
1.09696+ 7 6.24872+ 5 1.20000+ 7 6.54623+ 5 1.40000+ 7 7.08723+ 59649 5 17 1146			9649 5 17 1146
1.60000+ 7 7.58882+ 5 1.80000+ 7 8.05854+ 5 2.00000+ 7 8.50181+ 59649 5 17 1147			9649 5 17 1147
1.09696+ 7 0.0 + 0	0 9 1		29649 5 17 1148
	2 2 0	0 0 0	09649 5 17 1149
1.09696+ 7 3.33333- 1 2.00000+ 7 3.33333- 1			9649 5 17 1150

0.0	+ 0	0.0	+ 0	0	0	1	69649	5	17	1151				
6	2	0	0	0	0	0	09649	5	17	1152				
1.09696+	7	4.36944+	5	1.20000+	7	4.56438+	5	1.40000+	7	5.11915+	59649	5	17	1153
1.60000+	7	5.74953+	5	1.80000+	7	6.35280+	5	2.00000+	7	6.91113+	59649	5	17	1154
1.09696+	7	0.0	+ 0	0	9	1	29649	5	17	1155				
2	2	0	0	0	0	0	09649	5	17	1156				
1.09696+	7	3.33333-	1	2.00000+	7	3.33333-	1			9649	5	17	1157	
0.0	+ 0	0.0	+ 0	0	0	1	69649	5	17	1158				
6	2	0	0	0	0	0	09649	5	17	1159				
1.09696+	7	4.13194+	5	1.20000+	7	4.13194+	5	1.40000+	7	4.13194+	59649	5	17	1160
1.60000+	7	4.13194+	5	1.80000+	7	3.82313+	5	2.00000+	7	4.66366+	59649	5	17	1161
							9649	5	0	1162				
9.62490+	7	2.46936+	2		0	0	1	09649	5	18	1163			
-2.00000+	7	0.0	+ 0	0	7	1	29649	5	18	1164				
2	2	0	0	0	0	0	09649	5	18	1165				
1.00000-	5	1.00000+	0	2.00000+	7	1.00000+	0			9649	5	18	1166	
0.0	+ 0	0.0	+ 0	0	0	1	29649	5	18	1167				
2	2	0	0	0	0	0	09649	5	18	1168				
1.00000-	5	1.37000+	6	2.00000+	7	1.37000+	6			9649	5	18	1169	
							9649	5	0	1170				
9.62490+	4	2.46936+	2		0	0	4	09649	5	37	1171			
1.61482+	7	0.0	+ 0	0	9	1	29649	5	37	1172				
2	2	0	0	0	0	0	09649	5	37	1173				
1.61482+	7	2.50000-	1	2.00000+	7	2.50000-	1			9649	5	37	1174	
0.0	+ 0	0.0	+ 0	0	0	1	39649	5	37	1175				
3	2	0	0	0	0	0	09649	5	37	1176				
1.61482+	7	7.62464+	5	1.80000+	7	8.05854+	5	2.00000+	7	8.50181+	59649	5	37	1177
1.61482+	7	0.0	+ 0	0	9	1	29649	5	37	1178				
2	2	0	0	0	0	0	09649	5	37	1179				
1.61482+	7	2.50000-	1	2.00000+	7	2.50000-	1			9649	5	37	1180	
0.0	+ 0	0.0	+ 0	0	0	1	39649	5	37	1181				
3	2	0	0	0	0	0	09649	5	37	1182				
1.61482+	7	6.27565+	5	1.80000+	7	6.54281+	5	2.00000+	7	6.96645+	59649	5	37	1183
1.61482+	7	0.0	+ 0	0	9	1	29649	5	37	1184				
2	2	0	0	0	0	0	09649	5	37	1185				
1.61482+	7	2.50000-	1	2.00000+	7	2.50000-	1			9649	5	37	1186	
0.0	+ 0	0.0	+ 0	0	0	1	39649	5	37	1187				
3	2	0	0	0	0	0	09649	5	37	1188				
1.61482+	7	4.32048+	5	1.80000+	7	4.48533+	5	2.00000+	7	4.87372+	59649	5	37	1189
1.61482+	7	0.0	+ 0	0	9	1	29649	5	37	1190				
2	2	0	0	0	0	0	09649	5	37	1191				
1.61482+	7	2.50000-	1	2.00000+	7	2.50000-	1			9649	5	37	1192	
0.0	+ 0	0.0	+ 0	0	0	1	39649	5	37	1193				
3	2	0	0	0	0	0	09649	5	37	1194				
1.61482+	7	4.15289+	5	1.80000+	7	4.15289+	5	2.00000+	7	4.15289+	59649	5	37	1195
							9649	5	0	1196				
9.62490+	4	2.46936+	2		0	0	1	09649	5	91	1197			
2.20890+	5	0.0	+ 0	0	9	1	29649	5	91	1198				
2	2	0	0	0	0	0	09649	5	91	1199				
2.20890+	5	1.00000+	0	2.00000+	7	1.00000+	0			9649	5	91	1200	
0.0	+ 0	0.0	+ 0	0	0	1	119649	5	91	1201				
11	2	0	0	0	0	0	09649	5	91	1202				
2.20890+	5	3.97861+	5	2.00000+	6	3.97861+	5	4.00000+	6	3.61604+	59649	5	91	1203
6.00000+	6	4.53739+	5	8.00000+	6	5.29541+	5	1.00000+	7	5.95479+	59649	5	91	1204
1.20000+	7	6.54623+	5	1.40000+	7	7.08723+	5	1.60000+	7	7.58882+	59649	5	91	1205
1.80000+	7	8.05854+	5	2.00000+	7	8.50181+	5			9649	5	91	1206	
							9649	5	0	1207				
							9649	0	0	1208				
							0	0	0	1209				
							-1	0	0	0				