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EVALUATION OF NEUTRON NUCLEAR DATA FOR ^{249}Bk AND ^{249}Cf

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Evaluation of Neutron Nuclear Data for ^{249}Bk and ^{249}Cf

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Neutron nuclear data of ^{249}Bk and ^{249}Cf have been evaluated in the energy range from 10^{-5} eV to 20 MeV. 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 sections were evaluated mainly on the basis of measured data. The other cross sections were calculated with the optical and statistical models because of scarce measured data.

Keywords: Berkelium-249, Californium-249, Evaluation, Resonance Parameters, Fission, Optical Model, Statistical Model, Systematics

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^{249}Bk と ^{249}Cf の中性子核データの評価

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^{249}Bk と ^{249}Cf の中性子核データの評価を 10^{-5} eV から 20 MeV のエネルギー範囲で行った。評価した物理量は，全断面積，弾性および非弾性散乱断面積，核分裂断面積，捕獲断面積，(n,2n)，(n，3n）および（n，4n）反応断面積，分離および非分離共鳴パラメータ，放出中性子の角度分布とエネルギー分布，そして核分裂当りの平均放出中性子数である。核分裂断面積は主に実験データに基づいて評価された。その他の断面積は，測定データが乏しいので，光学模型や統計模型を用いて計算した。

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1. Introduction

Neutron nuclear data of transplutonium isotopes are required to analyze the down-stream problems of fuel cycle. JENDL-2 contains the data of $^{241-243}$Am and $^{242-245}$Cm. In order to analyze the complete production and decay chain up to ^{252}Cf, we will supply the data of higher Cm and Bk isotopes. According to this program, the data of $^{246-249}$Cm were already evaluated.

In the fiscal year of 1984, the data of ^{249}Bk and ^{249}Cf have been evaluated under contracts with Power Reactor and Nuclear Fuel Development Corporation. As are listed in Table 1, the presently 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 ^{249}Bk and ^{249}Cf, respectively. The present results are compared with available experimental data and with the ENDF/B-V and ENDL-82 data.

2. Berkelium-249

2.1 Thermal Cross Sections

The measured thermal cross sections[1-5] are compared in Table 2. The large resonance level at 0.195 eV causes a large discrepancy between the thermal cross sections measured in pile spectra and those measured in differential experiments. Since the resonance parameters of Benjamin et al. were adopted as described in the next section, we also adopted the data measured by the same authors in the differential experiment.

The thermal fission cross section of ^{249}Bk has not been measured because of its small cross-section value and of very large cross-section value of its daughter nuclei ^{249}Cf. The fission cross section was estimated from the systematics of σ_f/σ_c given by Prince[6].

2.2 Resonance Parameters

2.2.1 Resolved Resonance Parameters

The resonance parameters of ^{249}Bk were measured by Benjamin et al.[4] and Anufriev et al.[8] They were collected and stored in REPSTOR system[9]. Benjamin et al. made the transmission measurements from 0.03 to 100 eV using ORELA and deduced the reduced neutron widths and the radiative widths for 40 resonance levels up to 99 eV. Anufriev et al. also made the transmission measurements up to 50 keV by using the TOF method with the neutron spectrometer at the SM-2 reactor. Both parameters agree with each other in the low energy resonances but are discrepant for high energy resonances.

The parameters of Benjamin et al. were adopted in the present evaluation considering their wider energy range and their smaller quoted errors. The parameters of a negative resonance were adjusted so as to reproduce the thermal capture cross section.

The fission width was obtained so as to reproduce the thermal fission cross section of about 4.0 barns which was estimated from the ratio of the fission to capture cross sections evaluated by Prince[6]. The same fission width was assumed to all the resonance levels. The spin J of each resonance was determined with a random number method by assuming the Wigner distribution of level spacing. The presently adopted resonance parameters are listed in Table 3 together with those of Benjamin et al. and Anufriev et al. The calculated thermal cross sections are given in Table 2.

The plotting of the cumulative number of resonances shows that there may be some missing levels above 20 eV. However the plotting of the cumulative reduced neutron widths shows a straight line up to 60 eV. It suggests that the missing levels have negligibly small neutron widths. Hence the maximum energy of the resolved resonance region was set at 60 eV.

2.2.2 Unresolved Resonance Parameters

No experimental cross section data are available in the unresolved resonance region between 60 eV and 30 keV. The s-wave neutron strength function, the radiative width, the fission width and the mean level spacing were estimated from the resolved resonance parameters. The p- and d-wave neutron strength functions and the effective scattering radius were calculated with the optical model. The unresolved resonance parameters are given in Table 4.

2.2.3 Resonance Integrals

The resonance integrals calculated from the presently evaluated data are

Capture : 12.1 barns,

Fission : 1126 barns.

The capture integral agrees well with the measured data of Gavrilov et al.[3)]

2.3 Cross Sections above Resonance Region

2.3.1 Fission Cross Section

The following measured data are available for the fission cross section of ^{249}Bk above the resonance region:

Vorotonikov et al.[10]	(1970)	:	0.2 MeV - 5.0 MeV,
Fomushkin et al.[11]	(1972)	:	1.5 MeV - 14.5 MeV,
Silbert[12]	(1977)	:	0.7 MeV - 3 MeV.

The present evaluation was made on the basis of these data above 700 keV with the eye-guide method. No experimental data are available for the subthreshold fission cross section below 700 keV. The cross section below 100 keV is calculated from the unresolved resonance parameters as mentioned in 2.2.2. Between 100 and 700 keV, the cross sections were smoothly connected with the eye-guide method. The fission cross section thus obtained 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, ^{247}Cm, ^{248}Cm and ^{249}Cm for JENDL-3. These potential parameters were obtained by Igarasi and Nakagawa[13] so as to reproduce the total cross section of ^{241}Am measured by Phillips and Howe[14]. The parameter set is given in Table 5. The level density parameters were taken from the recommendation by Gilbert and Cameron[15] and are given in Table 6.

The (n,2n), (n,3n) and (n,4n) reaction cross sections were calculated with Pearlstein's method[16] based on the evaporation model. The neutron emission cross section was assumed to be 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 CASTHY[17]. The γ-ray strength function was calculated to be 3.3×10^{-2} from the radiative width and the mean level spacing in the resolved resonance region. Eighteen discrete levels were taken into account up to 475 keV and levels above 519 keV were assumed to be overlapping. The level scheme of the discrete levels was taken from Table of Isotopes, 7th edition[18] and is shown in Table 7.

The Q-values of the (n,2n), (n,3n) and (n,4n) reactions were obtained from the compilation of Wapstra and Bos[19] 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 ν-value for the neutron-induced fission of ^{249}Bk. Hence the following semi-empirical formula by Howerton[20] was adopted;

$$\nu(Z,A_t,E_n) = 2.33 + 0.06\,[2 - (-1)^{A_t+1-Z} - (-1)^Z] + 0.15\,(Z-92) + 0.02(A_t-235) + [0.130 + 0.006\,(A_t-235)] \times [E_n - E_T(Z,A_t)],$$

$$E_T(Z,A_t) = 18.6 - 0.36\,Z^2/(A_t+1) + 0.2[2 - (-1)^{A_t+1-Z} - (-1)^Z] - B_n,$$

where E_T stands for 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 = 249 and B_n = 4.97 MeV, we obtained

$$E_T = 0.88 \text{ MeV},$$

and

$$\nu = 3.41 + 0.214\ E_n.$$

As no measurement has been reported on the number of delayed neutrons, we estimated ν_d from the systematics proposed by Tuttle[21]:

$$\nu_d = \exp[13.81 + 0.1754(A_c-3Z)(A_c/Z)],$$

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 ∿ 8 MeV). Under these assumptions, the presently evaluated value is

$$\nu_d = 0.0089 \quad \text{for} \quad E_n \leqq 6 \text{ MeV},$$
$$0.0061 \quad \text{for} \quad E_n \geqq 8 \text{ MeV}.$$

Both values are linearly connected between 6 and 8 MeV.

As to the decay constants and fraction of delayed neutrons, the values for ^{240}Pu evaluated by Tuttle[22] were adopted because of analogous values of (A_c-3Z) (A_c/Z).

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 and statistical models. 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

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

$$\theta = T_n \qquad E_n < E_x,$$

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

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. Assumed values of these parameters are listed in Table 6.

As to the (n,2n), (n,3n) and (n,4n) reactions, we assumed the following successive evaporation process. For the (n,2n) process, for example, 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 to 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 ^{249}Bk, 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 1.40 MeV, by taking account of

the ^{252}Cf average fission neutron energy of 2.13 MeV recommended by Grundl and Eisenhauer[24].

2.5 Discussion

The thermal capture cross section, fission cross section above 700 keV and resonance parameters were evaluated on the basis of experimental data. The evaluation for the other quantities was much based on the theoretical calculation and the estimation with systematics. The presently evaluated cross sections are shown in Fig.5 in the energy range above 100 eV.

The thermal cross sections have large discrepancies among their experimental data. New experiments are expected to determine more reliable cross sections. Large discrepancies are also found among existing evaluated data and the presently evaluated data as shown in Figs.1 to 4.

3. Californium-249

3.1 Thermal Cross Sections

The measured thermal cross sections are compared in Table 9. They agree with one another except the oldest data of Harvey. Hence we averaged the measured data omitting Harvey's data. The adopted values are also given in Table 9.

3.2 Resonance Parameters

3.2.1 Resolved Resonance Parameters

Four sets of the measured data have so far been reported for the resonance parameters of ^{249}Cf, and they were collected with REPSTOR system[9]. Silbert[32] gave the reduced neutron and fission widths for 43

resonance levels from 16 to 70 eV by using the Physics-8 underground nuclear explosion as a neutron source. Dabbs et al.[33] gave the same quantities for 11 levels from 0.7 eV to 17 eV. Benjamin et al.[4] also reported the same quantities for 65 levels from 0.7 to 90 eV from their transmission measurements by using ORELA. Anufriev et al.[31] gave the total and reduced neutron widths for 49 levels from -0.18 eV to 66 eV by using a four-roter neutron selector at the SM-2 reactor. They are shown in Table 10.

The parameters of Benjamin et al.[4] were adopted in the present work, considering their large energy range and their small quoted errors. A negative resonance was added at -0.18 eV so as to reproduce the adopted thermal cross sections in Table 9. The calculated cross sections are also given in Table 9. The spin J of each resonance was obtained with the same random number method as in the case of ^{249}Bk.

Benjamin et al.[4] argued that about 25% of resonance levels were missing up to 65 eV. However, it was concluded from the plot of the cumulative reduced neutron width versus neutron energy that few resonances with a large neutron width were missing. The maximum energy of the resolved resonance region was set at 70 eV.

3.2.2 Unresolved Resonance Region

The fission cross sections measured by Silbert[32] and by Dabbs and Bemis[34] are the only available experimental data in the unresolved resonance region between 70 eV and 30 keV. Hence the unresolved resonance parameters were determined so as to reproduce these fission cross sections. The evaluation of the fission cross section will be described later.

As the initial guess values, the s-wave neutron strength function,

the observable level spacing and the radiative width were determined from the resolved resonance parameters. The p- and d-wave strength functions and the effective scattering radius were calculated with the optical model.

The fission widths were estimated from the channel theory of fission[35]. The energies of the transition states were assumed from the systematic survey[36] of the other fissile nuclei. It can be expected from the assumed transition states that

1) the 2^-, 4^- and 6^- states have one open fission channel (bending vibration),
2) the 3^-, 5^- and 7^- states have two open fission channels (bending and mass-asymmetry vibrations),
3) the 3^+ and 5^+ states have one open channel (gamma vibration), and
4) the 4^+ and 6^+ states have two open channels (ground state band and gamma vibration band).

First the observable level spacing, the fission widths and the effective scattering radius were adjusted so that the calculated total, fission and capture cross sections might join smoothly with the smooth cross sections above 30 keV. Then the neutron strength functions were adjusted so as to reproduce the evaluated fission cross section at each energy point, by fixing all the other parameters. The obtained unresolved resonance parameters are given in Table 11 with the calculated cross sections.

3.2.3 Resonance Integrals

The capture and fission resonance integrals calculated from the present evaluated data are shown in Table 12 with the measured data. The present capture integral looks a little lower, while the fission integral is a little higher.

3.3 Cross Sections above Resonance Region

3.3.1 Fission Cross Section

The experimental data are numerous for the fission cross section of ^{249}Cf. Available data in this energy region are

Fomushkin et al.[11]	(1972)	14.5 MeV
Fursov et al.[29]	(1972)	0.5 MeV - 5.0 MeV,
Vorotonikov et al.[37]	(1972)	0.16 MeV - 1.6 MeV,
Silbert[32]	(1973)	13 eV - 2.9 MeV,
Fursov et al.[38]	(1974)	0.5 MeV - 7.0 MeV,
Fomushkin et al.[39]	(1976)	0.25 MeV - 5.15 MeV,
Dabbs and Bemis[34]	(1981)	6.4 meV - 17 MeV,
Kupriyanov et al.[40]	(1984)	0.13 MeV - 7.4 MeV.

Among them, the data of Fursov et al.[29,38] and of Kupriyanov et al.[40] were given as the ratio to the fission cross section of ^{239}Pu. Their absolute values were deduced by using the JENDL-2 data of ^{239}Pu fission.

The present evaluation was made mainly on the basis of the data of Dabbs and Bemis[34] and of Kupriyanov et al.[40] which agree well with each other. The presently evaluated data are shown in Fig.6 with the measured data as well as the evaluated data of ENDF/B-V and ENDL-82.

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 calculation procedure as in the case of ^{249}Bk were used. The γ-ray strength function of 3.25×10^{-2} was determined from the average radiative width and the mean level spacing in the unresolved resonance region. The level density parameters, the level scheme and the Q-values of (n,2n), (n,3n) and

(n,4n) reactions are shown in Tables 13,14 and 15, respectively.

The calculated cross sections are shown in Figs.7-9 with the other evaluated data.

3.4 Other Quantities

3.4.1 Average Number of Neutrons Emitted per Fission

Volodin et al.[41] reported the $\bar{\nu}$-value of 4.06±0.04 at the thermal energy, and this value was adopted in the present work. Its energy dependence was estimated from the semi-empirical formula by Howerton[20] which is given in 2.4.1. Applying A_t=249 and B_n=6.62 MeV, Howerton's formula gives

$$\bar{\nu} = 3.91 + 0.214\ E_n .$$

The calculated thermal value agrees with the experimental one of Volodin et al. Finally, the following formula was adopted by replacing the constant term with the experimental value.

$$\bar{\nu} = 4.06 + 0.214\ E_n .$$

The average number of delayed neutrons was estimated with the same method as used for ^{249}Bk. The result is

$$\nu_d = 0.0028 \quad \text{for } E_n \leqq 6 \text{ MeV},$$
$$= 0.0019 \quad \text{for } E_n \geqq 8 \text{ MeV}.$$

As to the decay constants and the fraction of delayed neutrons, the values for ^{239}Pu were adopted, taking account of $(A_c-3Z)(A_c/Z)$.

3.4.2 Angular and Energy Distributions of Emitted Neutrons

The same procedure used for ^{249}Bk was adopted. The obtained temperature of the fission spectrum is 1.43 MeV.

3.5 Discussion

The presently evaluated cross sections are shown in Fig.10. The fission cross section was evaluated on the basis of the recently measured data, and are in agreement with the other evaluated data as shown in Fig.6. Other cross sections were calculated with the optical, statistical and evaporation models. Discrepancies of the cross sections are found among ENDF/B-V, ENDL-82 and the present results.

4. Concluding Remarks

Evaluation of neutron nuclear data was performed on ^{249}Bk and ^{249}Cf. The thermal cross sections, resonance parameters and fission cross sections were evaluated mainly on the basis of available experimental data. The other quantities were determined with theoretical calculations. The presently evaluated data were compiled in the ENDF/B-V format, and are listed in Appendix.

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Table 1 Presently evaluated quantities

Quantities	Energy ranges (eV)*	
	^{249}Bk	^{249}Cf
1) Resonance parameters		
Resolved resonance parameters	-1.67-1 — 9.9+1	-1.80-1 — 8.98+1
Resolved resonance region	1.0-5 — 6.0+1	1.0-5 — 7.0+1
Unresolved resonance region	6.0+1 — 3.0+4	7.0+1 — 3.0+4
2) Cross sections		
Total	1.0-5 — 2.0+7	1.0-5 — 2.0+7
Elastic scattering	1.0-5 — 2.0+7	1.0-5 — 2.0+7
Inelastic scattering	8.84+3 — 2.0+7	6.28+4 — 2.0+7
Fission	1.0-5 — 2.0+7	1.0-5 — 2.0+7
Radiative capture	1.0-5 — 2.0+7	1.0-5 — 2.0+7
(n,2n)	6.24+6 — 2.0+7	5.62+6 — 2.0+7
(n,3n)	1.18+7 — 2.0+7	1.26+7 — 2.0+7
(n,4n)	1.85+7 — 2.0+7	1.87+7 — 2.0+7
4) Angular distributions of emitted neutrons		
Elastically and inelastically scattered neutrons, and those from (n,2n), (n,3n) and (n,4n) reactions in the same energy range as their cross sections.		
5) Energy distributions of emitted neutrons		
Inelastic to continuum	5.21+5 — 2.0+7	5.52+5 — 2.0+7
(n,2n)	6.24+6 — 2.0+7	5.62+6 — 2.0+7
(n,3n)	1.18+7 — 2.0+7	1.26+7 — 2.0+7
(n,4n)	1.85+7 — 2.0+7	1.87+7 — 2.0+7
Fission	1.0-5 — 2.0+7	1.0-5 — 2.0+7
6) $\bar{\nu}$ and $\bar{\nu}_d$	1.0-5 — 2.0+7	1.0-5 — 2.0+7

* 8.98+1 stands for 8.98×10^1 eV.

Table 2 Thermal cross sections of ^{249}Bk

(barns)

	Capture	Fission
Experimental		
54 Harvey[1)]	1100 ± 300	
68 Folger[2)]	1400	
76 Gavrilov[3)]	1800 ± 100	
83 Benjamin[4)]	710 ± 40	
Integral Data (from production data)[5)]		
SRP production reactor	1451	—
ORNL - HFIR	1706	553
Recommended		
67 Prince[6)]	500	2.8
BNL-325 (3)[7)]	1300	—
Adopted	710 ± 40	4.0
Calculated*	709.6	3.96

* Calculated from the presently adopted resonance parameters.

Table 3 Resolved resonance parameters of ^{249}Bk

ENERGY (EV)	J	NEUTRON WIDTH* (MILLI-EV)	2G*(IR N-WIDTH) (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	FISSION WIDTH (MILLI-EV)	MISCELLANEOUS**	REFERENCE***
-0.167	(4)	0.0175	0.0481	35.7 ± 2.0	(0.2)	L = 0 COM= ADJUSTED H	JENDL-3
-0.083		A 0.016± 0.003		36 ± 2		GT = 40	83ANUFRIEV+
-0.167			0.0679	35.7 ± 2.0			83BENJAMIN+
0.195± 0.006	(3)	0.117± 0.002	0.232± 0.004	35.9 ± 1.6	(0.2)	L = 0	JENDL-3
0.198± 0.004		A 0.102± 0.006		36.2 ± 1.3		GT = 36 ± 2	83ANUFRIEV+
0.195± 0.006			0.232± 0.004	35.9 ± 1.6			83BENJAMIN+
1.338± 0.002	(3)	0.198± 0.005	0.150± 0.004	35.1 ± 0.7	(0.2)	L = 0	JENDL-3
1.354± 0.006		A 0.165± 0.008		41.4 ± 1.8		GT = 36.4 ± 1.3	83ANUFRIEV+
1.338± 0.002			0.150± 0.004	35.1 ± 0.7			83BENJAMIN+
1.600± 0.002	(4)	0.573± 0.009	0.510± 0.006	33.2 ± 1.3	(0.2)	L = 0	JENDL-3
1.610± 0.008		A 0.60 ± 0.02		31 ± 3		GT = 42.7 ± 1.8	83ANUFRIEV+
1.600± 0.002			0.510± 0.006	33.2 ± 1.3			83BENJAMIN+
2.149± 0.004	(4)	0.107± 0.003	0.082± 0.002	36.7 ± 1.1	(0.2)	L = 0	JENDL-3
2.164± 0.009		A 0.12 ± 0.01		38 ± 9		GT = 31 ± 3	83ANUFRIEV+
2.149± 0.004			0.082± 0.002	36.7 ± 1.1			83BENJAMIN+
3.112± 0.006	(3)	0.145± 0.004	0.072± 0.002	37.0 ± 1.8	(0.2)	L = 0	JENDL-3
3.131± 0.012		A 0.13 ± 0.01		52 ±10		GT = 38 ± 9	83ANUFRIEV+
3.112± 0.006			0.072± 0.002	37.0 ± 1.8			83BENJAMIN+
5.019± 0.008	(4)	0.231± 0.008	0.116± 0.004	44.3 ± 2.4	(0.2)	L = 0	JENDL-3
5.03 ± 0.03		A 0.29 ± 0.03		38 ±12		GT = 52 ±10	83ANUFRIEV+
5.019± 0.008			0.116± 0.004	44.3 ± 2.4			83BENJAMIN+
6.281± 0.015	(4)	0.147± 0.013	0.086± 0.006	33.8 ± 4.5	(0.2)	L = 0	JENDL-3
6.30 ± 0.04		A 0.17 ± 0.02		42 ±13		GT = 38 ±12	83ANUFRIEV+
6.281± 0.015			0.086± 0.006	33.8 ± 4.5			83BENJAMIN+
7.043± 0.024	(4)	0.165± 0.014	0.070± 0.006	39.0 ± 7.2	(0.2)	L = 0	JENDL-3
7.03 ± 0.05		A 0.19 ± 0.03		45 ± 4		GT = 42 ±13	83ANUFRIEV+
7.043± 0.024			0.070± 0.006	39.0 ± 7.2			83BENJAMIN+
7.992± 0.008	(4)	1.412± 0.085	0.582± 0.034	36.1 ± 1.9	(0.2)	L = 0	JENDL-3
7.99 ± 0.06		A 1.37 ± 0.06		38 ± 4		GT = 45 ± 4	83ANUFRIEV+
7.992± 0.008			0.582± 0.034	36.1 ± 1.9			83BENJAMIN+
10.59 ± 0.01	(3)	0.171± 0.015	0.046± 0.004	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
10.60 ± 0.09		A 0.24 ± 0.04				GT = 40	83ANUFRIEV+
10.59 ± 0.01			0.046± 0.004	35.7 ± 2.0			83BENJAMIN+
11.89 ± 0.01	(3)	0.880± 0.023	0.174± 0.006	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
11.63 ± 0.10		A 0.82 ± 0.05				GT = 40	83ANUFRIEV+
11.69 ± 0.01			0.174± 0.006	35.7 ± 2.0			83BENJAMIN+
14.29 ± 0.01	(4)	0.699± 0.027	0.208± 0.008	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
14.25 ± 0.18		A 0.85 ± 0.08				GT = 40	83ANUFRIEV+
14.29 ± 0.01			0.208± 0.008	35.7 ± 2.0			83BENJAMIN+
15.01 ± 0.02	(4)	2.07 ± 0.06	0.602± 0.016	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
14.95 ± 0.19		A 2.03 ± 0.12		45 ±15		GT = 47 ±15	83ANUFRIEV+
15.01 ± 0.02			0.602± 0.016	35.7 ± 2.0			83BENJAMIN+
15.73 ± 0.02	(3)	1.406± 0.045	0.310± 0.010	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
15.68 ± 0.20		A 1.20 ± 0.11		38 ±19		GT = 38 ±19	83ANUFRIEV+
15.73 ± 0.02			0.310± 0.010	35.7 ± 2.0			83BENJAMIN+
17.50 ± 0.21		A 0.3 ± 0.1				GT = 40	83ANUFRIEV+
18.16 ± 0.02	(3)	0.847± 0.049	0.174± 0.010	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
18.08 ± 0.23		A 0.76 ± 0.12				GT = 40	83ANUFRIEV+
18.16 ± 0.02			0.174± 0.010	35.7 ± 2.0			83BENJAMIN+
19.02 ± 0.02	(4)	0.419± 0.031	0.108± 0.008	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
18.99 ± 0.24		A 0.44 ± 0.21				GT = 40	83ANUFRIEV+
19.02 ± 0.02			0.108± 0.008	35.7 ± 2.0			83BENJAMIN+
19.85 ± 0.02	(3)	7.51 ± 0.23	1.474± 0.046	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
19.76 ± 0.24		A 5.13 ± 0.25				GT = 40	83ANUFRIEV+
19.85 ± 0.02			1.474± 0.046	35.7 ± 2.0			83BENJAMIN+
21.10 ± 0.02	(4)	0.506± 0.033	0.124± 0.008	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
22.10 ± 0.25		A 0.44 ± 0.25				GT = 40	83ANUFRIEV+
21.10 ± 0.02			0.124± 0.008	35.7 ± 2.0			83BENJAMIN+
24.06 ± 0.02	(4)	0.924± 0.044	0.212± 0.010	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
24.00 ± 0.30		A 1.1 ± 0.2				GT = 40	83ANUFRIEV+
24.06 ± 0.02			0.212± 0.010	35.7 ± 2.0			83BENJAMIN+
24.67 ± 0.02	(3)	1.54 ± 0.06	0.272± 0.014	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
24.60 ± 0.36		A 1.0 ± 0.2				GT = 40	83ANUFRIEV+
24.67 ± 0.02			0.272± 0.014	35.7 ± 2.0			83BENJAMIN+
30.24 ± 0.03	(4)	1.03 ± 0.07	0.210± 0.014	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
30.2 ± 0.4		A 2.6 ± 1.2				GT = 40	83ANUFRIEV+
30.24 ± 0.03			0.210± 0.014	35.7 ± 2.0			83BENJAMIN+
30.71 ± 0.03	(3)	1.87 ± 0.09	0.296± 0.014	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
30.8 ± 0.4		A 0.4				GT = 40	83ANUFRIEV+
30.71 ± 0.03			0.296± 0.014	35.7 ± 2.0			83BENJAMIN+
32.5 ± 0.5		A 0.96 ± 0.52				GT = 40	83ANUFRIEV+
35.83 ± 0.04	(4)	2.14 ± 0.10	0.402± 0.018	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
36.3 ± 0.6		A 1.8 ± 0.3				GT = 40	83ANUFRIEV+
35.83 ± 0.04			0.402± 0.018	35.7 ± 2.0			83BENJAMIN+
36.93 ± 0.04	(3)	12.82 ± 0.43	1.846± 0.062	35.7 ± 2.0	(0.2)	L = 0	JENDL-3

ENERGY (EV)	J	NEUTRON WIDTH (MILLI-EV)	2G*(R N-WIDTHD) (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	FISSION WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
36.3 ± 0.6		A 9.7 ± 0.7				GT = 40	83ANUFRIEV+
36.93 ± 0.04			1.846± 0.062	35.7 ± 2.0			83BENJAMIN+
40.31 ± 0.04	4	5.33 ± 0.18	0.944± 0.032	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
40.4 ± 0.8		A 9.0 ± 2.2				GT = 40	83ANUFRIEV+
40.31 ± 0.04			0.944± 0.032	35.7 ± 2.0			83BENJAMIN+
40.99 ± 0.04	3	1.81 ± 0.13	0.248± 0.018	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
40.99 ± 0.04			0.248± 0.018	35.7 ± 2.0			83BENJAMIN+
43.76 ± 0.04	4	1.89 ± 0.13	0.322± 0.022	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
43.6 ± 0.8		A 3.5 ± 0.7				GT = 40	83ANUFRIEV+
43.78 ± 0.04			0.322± 0.022	35.7 ± 2.0			83BENJAMIN+
44.77 ± 0.04	3	4.16 ± 0.21	0.544± 0.028	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
44.77 ± 0.04			0.544± 0.028	35.7 ± 2.0			83BENJAMIN+
46.76 ± 0.05	4	6.54 ± 0.28	1.076± 0.046	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
46.5 ± 0.9		A 6.7 ± 2.5				GT = 40	83ANUFRIEV+
46.76 ± 0.05			1.076± 0.046	35.7 ± 2.0			83BENJAMIN+
51.85 ± 0.05	4	2.92 ± 0.23	0.456± 0.036	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
51.85 ± 0.05			0.456± 0.036	35.7 ± 2.0			83BENJAMIN+
54.06 ± 0.05	4	2.34 ± 0.14	0.358± 0.022	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
54.06 ± 0.05			0.358± 0.022	35.7 ± 2.0			83BENJAMIN+
56.67 ± 0.06	3	5.51 ± 0.38	0.640± 0.044	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
56.67 ± 0.06			0.640± 0.044	35.7 ± 2.0			83BENJAMIN+
57.91 ± 0.06	4	5.56 ± 0.30	0.822± 0.044	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
57.91 ± 0.06			0.822± 0.044	35.7 ± 2.0			83BENJAMIN+
61.19 ± 0.06	3	3.45 ± 0.41	0.386± 0.046	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
61.19 ± 0.06			0.386± 0.046	35.7 ± 2.0			83BENJAMIN+
61.76 ± 0.06	4	1.29 ± 0.20	0.184± 0.028	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
61.76 ± 0.06			0.184± 0.028	35.7 ± 2.0			83BENJAMIN+
81.69 ± 0.08	3	12.3 ± 1.0	1.190± 0.096	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
81.69 ± 0.08			1.190± 0.096	35.7 ± 2.0			83BENJAMIN+
83.47 ± 0.08	4	3.39 ± 0.50	0.418± 0.062	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
83.47 ± 0.08			0.418± 0.062	35.7 ± 2.0			83BENJAMIN+
84.77 ± 0.08	4	2.93 ± 0.49	0.358± 0.060	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
84.77 ± 0.08			0.358± 0.060	35.7 ± 2.0			83BENJAMIN+
98.98 ± 0.10	3	5.00 ± 1.00	0.440± 0.088	35.7 ± 2.0	(0.2)	L = 0	JENDL-3
98.98 ± 0.10			0.440± 0.088	35.7 ± 2.0			83BENJAMIN+

* A denotes $2g\Gamma_n$

** L: orbital angular momentum

GT: total width

*** 83Anufriev+ : Ref.(8)

83Benjamin+ : Ref.(4)

Table 4 Unresolved resonance parameters and calculated cross sections of ^{249}Bk

Unresolved resonance parameters

$S_0 = 1.13 \times 10^{-4}$ $S_1 = 3.0 \times 10^{-4}$ $S_2 = 0.83 \times 10^{-4}$

$D_{obs} = 1.16$ eV $R = 9.07$ fm

$\Gamma_\gamma = 35.7$ meV $\Gamma_f = 0.205$ meV

Calculated cross sections

E_n (eV)	σ_t (b)	σ_c (b)	σ_f (b)
60	70.6	51.9	0.295
100	57.0	38.8	0.221
500	31.4	15.0	0.0857
1000	25.4	9.87	0.0563
5000	17.5	3.97	0.0227
10000	15.8	2.91	0.0166
30000	14.1	1.89	0.0108

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 Bk-isotopes

Isotope		246	247	248	249	250
a	(MeV^{-1})	25.39	25.34	25.55	25.82	27.20
$\sigma_M^2/\sqrt{U}$	$(MeV^{-\frac{1}{2}})$	17.57	17.60	17.72	17.86	18.38
Δ	(MeV)	0.0	0.39	0.0	0.90	0.0
E_x	(MeV)	3.11	3.50	3.10	4.01	3.10
T_n	(MeV)	0.421	0.426	0.419	0.417	0.404

Table 7 Level scheme of ^{249}Bk

No	Energy (keV)	I^{π}	No	Energy (keV)	I^{π}
GS	0	$7/2^+$	10	283.0	$13/2^-$
1	8.8	$3/2^-$	11	313.0	$17/2^+$
2	39.6	$5/2^-$	12	372.8	$15/2^-$
3	41.8	$9/2^+$	13	377.6	$1/2^+$
4	82.6	$7/2^-$	14	389.17	$5/2^+$
5	93.74	$11/2^+$	15	410.6	$3/2^+$
6	137.7	$9/2^-$	16	421.3	$5/2^+$
7	155.84	$13/2^+$	17	428.9	$7/2^+$
8	204.6	$11/2^-$	18	474.9	$9/2^+$
9	229.3	$15/2^+$			

Levels above 519 keV are assumed to be overlapping.

Table 8 Q-values and threshold energies of (n,xn) reaction cross sections for ^{249}Bk

Reaction	Q-value (MeV)	Threshold energy (MeV)
n,2n	- 6.2137	6.2389
n,3n	-11.7794	11.8271
n,4n	-18.3871	18.4615

Table 9 Thermal cross sections of ^{249}Cf

(barns)

	Total	Capture	Fission
Experimental			
54 Harvey[1]		270*	630*
65 Metta[25]			1735
70 Halperin[26]			1690
71 Halperin[27]		478 ± 25	
72 Fomushkin[11]			1630 ± 100
72 Benjamin[28]			1660 ± 50
72 Fursov[29]			1619 ± 43
75 Zhuravlev[30]			1715 ± 80
76 Gavrilov[3]		530 ± 33	1610 ± 110
83 Benjamin[4]	2050		
84 Anufriev[31]	2400 ± 200		
Recommended			
BNL-325 (3)[7]		465 ± 25	1660 ± 50
Adopted	2169 ± 62	504 ± 37	1665 ± 50
Calculated**	2176.7	504.5	1666

* Omitted in taking an average.

** Calculated from the presently adopted resonance parameters.

Table 10 Resolved resonance parameters of ^{249}Cf

ENERGY (EV)	J	NEUTRON WIDTH (MILLI-EV)	R. N-WIDTH(0)* (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	FISSION WIDTH (MILLI-EV)	MISCELLANEOUS**	REFERENCE***
-0.18	(4)	0.0989		(40)	134.2	L = 0 COM= ADJUSTED H GT = 190 WGN= 0.116	JENDL-3
-0.18							83ANUFRIEV+
0.70	(5)	0.65 ± 0.02	A 0.85 ± 0.02	(40)	127 ± 3	L = 0	JENDL-3
0.708			0.741	(40)	119.6		74OABBS+
0.705± 0.014			A 0.88 ± 0.05			GT = 147 ± 9	83ANUFRIEV+
0.70			A 0.85 ± 0.02		127 ± 3		83BENJAMIN+
3.88	(4)	0.291± 0.011	A 0.133± 0.005	(40)	46 ± 3	L = 0	JENDL-3
3.90			0.115	(40)	44.9		74OABBS+
3.88 ± 0.43			A 0.15 ± 0.02			GT = 77 ±14	83ANUFRIEV+
3.88			A 0.133± 0.005		46 ± 3		83BENJAMIN+
5.07	(5)	0.653± 0.012	A 0.319± 0.006	(40)	145 ± 6	L = 0	JENDL-3
5.08			0.268	(40)	154.3		74OABBS+
5.08 ± 0.02			A 0.30 ± 0.02			GT = 169 ±23	83ANUFRIEV+
5.07			A 0.319± 0.006		145 ± 6		83BENJAMIN+
7.51	(5)	0.147± 0.027	A 0.059± 0.011	(40)	62 ±12	L = 0	JENDL-3
7.52			0.063	(40)	83.4		74OABBS+
7.58 ± 0.01			A 0.058± 0.033			GT = 90	83ANUFRIEV+
7.51			A 0.059± 0.011		62 ±12		83BENJAMIN+
8.65	(4)	0.444± 0.033	A 0.136± 0.010	(40)	125 ±12	L = 0	JENDL-3
8.66			0.115	(40)	146.0		74OABBS+
8.66 ± 0.01			A 0.136± 0.014			GT = 150	83ANUFRIEV+
8.65			A 0.136± 0.010		125 ±12		83BENJAMIN+
9.51	(4)	1.61 ± 0.03	A 0.471± 0.009	(40)	119 ± 5	L = 0	JENDL-3
9.52			0.362	(40)	97.1		74OABBS+
9.44 ± 0.04			A 0.49 ± 0.06			GT = 219 ±64	83ANUFRIEV+
9.51			A 0.471± 0.009		119 ± 5		83BENJAMIN+
10.36	(5)	0.234± 0.029	A 0.080± 0.010	(40)	173 ±40	L = 0	JENDL-3
10.35			0.078	(40)	252.2		74OABBS+
10.26 ± 0.17			A 0.081± 0.040			GT = 171 ±68	83ANUFRIEV+
10.36			A 0.080± 0.010		173 ±40		83BENJAMIN+
11.88	(5)	0.047± 0.016	A 0.015± 0.005	(40)	35 ±34	L = 0	JENDL-3
11.90			0.037	(40)	242.4		74OABBS+
12.01 ± 0.13			A 0.13 ± 0.07			GT = 250	83ANUFRIEV+
11.88			A 0.015± 0.005		35 ±34		83BENJAMIN+
13.52	(5)	0.772± 0.094	A 0.231± 0.028	(40)	161 ±30	L = 0	JENDL-3
13.61 ± 0.07			A 0.283± 0.030			GT = 180	83ANUFRIEV+
13.52			A 0.231± 0.028		161 ±30		83BENJAMIN+
13.63			0.403	(40)	205.1		74OABBS+
13.71	(5)	0.956± 0.101	A 0.284± 0.030	(40)	198 ±30	L = 0	JENDL-3
13.82 ± 0.02			A 0.22 ± 0.03			GT = 170	83ANUFRIEV+
13.71			A 0.284± 0.030		198 ±30		83BENJAMIN+
16.03	(4)	1.046± 0.134	A 0.235± 0.030	(40)	366 ±60	L = 0	JENDL-3
16.0			0.10 ± 0.01		190 ±19		73SILBERT
16.06			0.159	(40)	325.4		74OABBS+
16.09 ± 0.04			A 0.22 ± 0.05			GT = 245 ±122	83ANUFRIEV+
16.03			A 0.235± 0.030		366 ±60		83BENJAMIN+
16.79	(5)	1.84 ± 0.07	A 0.495± 0.020	(40)	185 ±10	L = 0	JENDL-3
16.7			0.38 ± 0.038		170 ±17		73SILBERT
16.82			0.420	(40)	182.9		74OABBS+
16.89 ± 0.01			A 0.46 ± 0.06			GT = 146 ±44	83ANUFRIEV+
16.79			A 0.495± 0.020		185 ±10		83BENJAMIN+
17.51	(4)	0.079± 0.037	A 0.017± 0.008	(40)	30 ±20	L = 0	JENDL-3
(17.7)			(0.00)		(400)		73SILBERT
17.11 ± 0.28			A 0.048± 0.015			GT = 197 ±47	83ANUFRIEV+
17.51			A 0.017± 0.008		30 ±20		83BENJAMIN+
18.95	(5)	0.396± 0.237	A 0.10 ± 0.06	(40)	(50)	L = 0	JENDL-3
19.04 ± 0.14			A 0.14 ± 0.06			GT = 126 ±85	83ANUFRIEV+
18.95			A 0.10 ± 0.06		<50		83BENJAMIN+
19.8			0.04 ± 0.01		110 ±82.5		73SILBERT
21.32	(4)	9.03 ± 0.26	A 1.76 ± 0.05	(40)	164 ± 7	L = 0	JENDL-3
21.3			1.73 ± 0.173		150 ±15		73SILBERT
21.48 ± 0.01			A 1.93 ± 0.41			GT = 233 ±24	83ANUFRIEV+
21.32			A 1.76 ± 0.05		164 ± 7		83BENJAMIN+
21.65	(5)	1.48 ± 0.30	A 0.35 ± 0.07	(40)	122 ±30	L = 0	JENDL-3
21.7			0.39 ± 0.039		140 ±14		73SILBERT
21.92 ± 0.01			A 0.39 ± 0.03			GT = 160	83ANUFRIEV+
21.65			A 0.35 ± 0.07		122 ±30		83BENJAMIN+
22.8			0.20 ± 0.10		2.4 ± 1.2		73SILBERT
23.41	(4)	0.97 ± 0.22	A 0.18 ± 0.04	(40)	225 ±50	L = 0	JENDL-3
23.4			0.13 ± 0.013		106 ±10.6		73SILBERT
23.65 ± 0.05			A 0.15 ± 0.07			GT = 190	83ANUFRIEV+
23.41			A 0.18 ± 0.04		225 ±50		83BENJAMIN+
26.0	(5)	1.34 ± 0.19	A 0.29 ± 0.04	(40)	423 ±70	L = 0	JENDL-3
26.0			0.31 ± 0.031		320 ±32		73SILBERT
26.19 ± 0.14			A 0.44 ± 0.10			GT = 450	83ANUFRIEV+
26.0			A 0.29 ± 0.04		423 ±70		83BENJAMIN+
27.64	(4)	0.53 ± 0.12	A 0.09 ± 0.02	(40)	44 ±20	L = 0	JENDL-3
27.6			0.15 ± 0.015		76 ±26.25		73SILBERT

ENERGY (EV)	J	NEUTRON WIDTH (MILLI-EV)	R. N-WIDTH(0) (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	FISSION WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
27.82 ± 0.12			A 0.06 ± 0.02			GT = 75	83ANUFRIEV+
27.64			A 0.09 ± 0.02		44 ±20		83BENJAMIN+
28.15	[5]	1.45 ± 0.10	A 0.30 ± 0.02	(40)	70 ±10	L = 0	JENDL-3
28.1			0.77 ± 0.23		16 ± 4.5		73SILBERT
28.32 ± 0.05			A 0.35 ± 0.07			GT = 132 ±64	83ANUFRIEV+
28.15			A 0.30 ± 0.02		70 ±10		83BENJAMIN+
28.7	[4]	0.42 ± 0.42	A 0.07 ± 0.07	(40)	200 ±100	L = 0	JENDL-3
(28.9)			(0.01)		(500)		73SILBERT
28.91 ± 0.07			A 0.11 ± 0.08			GT = 210	83ANUFRIEV+
28.7			A 0.07 ± 0.07		200 ±100		83BENJAMIN+
30.37	[4]	0.37 ± 0.18	A 0.06 ± 0.03	(40)	51 ±40	L = 0	JENDL-3
30.3			0.16 ± 0.05		28 ±14		73SILBERT
30.37 ± 0.15			A 0.08 ± 0.04			GT = 150	83ANUFRIEV+
30.37			A 0.06 ± 0.03		51 ±40		83BENJAMIN+
31.0	[5]	1.11 ± 0.20	A 0.22 ± 0.04	(40)	300 ±60	L = 0	JENDL-3
31.0			0.42 ± 0.08		480 ±96		73SILBERT
31.00 ± 0.08			A 0.19 ± 0.09			GT = 310	83ANUFRIEV+
31.0			A 0.22 ± 0.04		300 ±60		83BENJAMIN+
31.5	[4]	1.37 ± 0.25	A 0.22 ± 0.04	(40)	200 ±60	L = 0	JENDL-3
31.6			0.16 ± 0.03		200 ±40		73SILBERT
31.70 ± 0.11			A 0.20 ± 0.09			GT = 210	83ANUFRIEV+
31.5			A 0.22 ± 0.04		200 ±60		83BENJAMIN+
33.39	[5]	1.10 ± 0.21	A 0.21 ± 0.04	(40)	326 ±90	L = 0	JENDL-3
33.3			0.29 ± 0.029		300 ±30		73SILBERT
33.39 ± 0.19			A 0.20 ± 0.11			GT = 245	83ANUFRIEV+
33.39			A 0.21 ± 0.04		326 ±90		83BENJAMIN+
34.9			0.15 ± 0.05		40 ±20		73SILBERT
36.35	[5]	2.25 ± 0.22	A 0.41 ± 0.04	(40)	97 ±10	L = 0	JENDL-3
36.3			1.0 ± 0.4		50 ±30		73SILBERT
36.38 ± 0.07			A 0.45 ± 0.11			GT = 100	83ANUFRIEV+
36.35			A 0.41 ± 0.04		97 ±10		83BENJAMIN+
37.11	[4]	3.11 ± 0.68	A 0.46 ± 0.10	(40)	149 ±50	L = 0	JENDL-3
37.0			0.65 ± 0.13		130 ±91		73SILBERT
37.02 ± 0.10			A 0.40 ± 0.11			GT = 150	83ANUFRIEV+
37.11			A 0.46 ± 0.10		149 ±50		83BENJAMIN+
37.56	[5]	1.06 ± 0.39	A 0.19 ± 0.07	(40)	290 ±150	L = 0	JENDL-3
(37.4)			(0.1)		(20)		73SILBERT
37.21 ± 0.64			A 0.14 ± 0.09			GT = 300	83ANUFRIEV+
37.56			A 0.19 ± 0.07		290 ±150		83BENJAMIN+
38.1	[4]	1.03 ± 1.03	A 0.15 ± 0.15	(40)	200 ±100	L = 0	JENDL-3
(38.1)			(0.08)		(400)		73SILBERT
37.89 ± 0.80			A 0.13 ± 0.08			GT = 225	83ANUFRIEV+
38.1			A 0.15 ± 0.15		200 ±100		83BENJAMIN+
39.88	[5]	2.12 ± 0.29	A 0.37 ± 0.05	(40)	189 ±30	L = 0	JENDL-3
39.7			0.41 ± 0.08		220 ±110		73SILBERT
39.74 ± 0.08			A 0.64 ± 0.13			GT = 200	83ANUFRIEV+
39.88			A 0.37 ± 0.05		189 ±30		83BENJAMIN+
40.30	[4]	3.88 ± 0.28	A 0.55 ± 0.04	(40)	222 ±30	L = 0	JENDL-3
40.3			0.52 ± 0.10		110 ±33		73SILBERT
40.43 ± 0.10			A 0.68 ± 0.15			GT = 250	83ANUFRIEV+
40.30			A 0.55 ± 0.04		222 ±30		83BENJAMIN+
42.7			0.043± 0.01		130 ±65		73SILBERT
43.09	[4]	0.30 ± 0.02	A 0.041± 0.003	(40)	100 ±100	L = 0	JENDL-3
43.1			0.056± 0.01		100 ±50		73SILBERT
43.24 ± 0.17			A 0.38 ± 0.15			GT = 130	83ANUFRIEV+
43.09			A 0.041± 0.003		100 ±100		83BENJAMIN+
45.78	[5]	2.34 ± 0.25	A 0.38 ± 0.04	(40)	95 ±15	L = 0	JENDL-3
45.6			0.58 ± 0.35		55 ±33		73SILBERT
45.47 ± 0.11			A 0.64 ± 0.16			GT = 115	83ANUFRIEV+
45.78			A 0.38 ± 0.04		95 ±15		83BENJAMIN+
46.6			0.072± 0.01		150 ±90		73SILBERT
47.70	[4]	0.77 ± 0.23	A 0.10 ± 0.03	(40)	500 ±50	L = 0	JENDL-3
47.5			0.32 ± 0.16		70 ±52.5		73SILBERT
47.70 ± 0.13			A 0.11 ± 0.04			GT = 500	83ANUFRIEV+
47.70			A 0.10 ± 0.03		500 ±50		83BENJAMIN+
48.50	[5]	3.3 ± 0.4	A 0.52 ± 0.06	(40)	324 ±50	L = 0	JENDL-3
48.4			0.44 ± 0.044		170 ±17		73SILBERT
48.35 ± 0.87			A 0.68 ± 0.22			GT = 350	83ANUFRIEV+
48.50			A 0.52 ± 0.06		324 ±50		83BENJAMIN+
51.63	[4]	2.55 ± 0.80	A 0.32 ± 0.10	(40)	375 ±100	L = 0	JENDL-3
51.2			0.24 ± 0.10		300 ±225		73SILBERT
51.17 ± 0.31			A 0.46 ± 0.24			GT = 370	83ANUFRIEV+
51.63			A 0.32 ± 0.10		375 ±100		83BENJAMIN+
52.23	[5]	8.3 ± 0.4	A 1.26 ± 0.06	(40)	132 ±12	L = 0	JENDL-3
52.1			1.15 ± 0.17		87 ±17.4		73SILBERT
52.20 ± 0.12			A 0.98 ± 0.22			GT = 150	83ANUFRIEV+
52.23			A 1.26 ± 0.06		132 ±12		83BENJAMIN+
54.02	[4]	4.8 ± 0.4	A 0.59 ± 0.05	(40)	465 ±90	L = 0	JENDL-3
53.9			0.65 ± 0.065		490 ±49		73SILBERT
53.19 ± 0.19			A 0.56 ± 0.28			GT = 500	83ANUFRIEV+

ENERGY (EV)	J	NEUTRON WIDTH (MILLI-EV)	R. N-WIDTH(0) (MILLI-EV)	GAMMA WIDTH (MILLI-EV)	FISSION WIDTH (MILLI-EV)	MISCELLANEOUS	REFERENCE
54.02			A 0.59 ± 0.05		465 ±90		83BENJAMIN+
56.0			0.41 ± 0.08		230 ±172.5		73SILBERT
56.28	(5)	4.3 ± 0.7	A 0.63 ± 0.10	(40)	475 ±200	L = 0	JENDL-3
56.31 ± 0.32			A 0.67 ± 0.30			GT = 500	83ANUFRIEV+
56.28			A 0.63 ± 0.10		475 ±200		83BENJAMIN+
56.4			0.49 ± 0.10		45 ±33.75		73SILBERT
57.7	(4)	6.0 ± 0.8	A 0.71 ± 0.10	(40)	638 ±120	L = 0	JENDL-3
57.6			0.60 ± 0.06		450 ±45		73SILBERT
57.42 ± 0.32			A 0.63 ± 0.31			GT = 650	83ANUFRIEV+
57.7			A 0.71 ± 0.10		638 ±120		83BENJAMIN+
58.8	(5)	1.4 ± 0.5	A 0.20 ± 0.07	(40)	190 ±80	L = 0	JENDL-3
58.7			0.51 ± 0.13		10 ± 2.5		73SILBERT
58.90 ± 0.23			A 0.70 ± 0.27			GT = 200	83ANUFRIEV+
58.8			A 0.20 ± 0.07		190 ±80		83BENJAMIN+
59.4			0.048± 0.01		260 ±78.0		73SILBERT
(60.2)			(0.01)		(2100)		73SILBERT
(60.8)			(0.05)		(1000)		73SILBERT
61.1	(4)	2.3 ± 1.1	A 0.26 ± 0.13	(40)	711 ±300	L = 0	JENDL-3
61.7			0.03 ± 0.0045		500 ±75.0		73SILBERT
59.61 ± 0.65			A 0.37 ± 0.18			GT = 730	83ANUFRIEV+
61.1			A 0.26 ± 0.13		711 ±300		83BENJAMIN+
64.2	(5)	0.58 ± 0.58	A 0.08 ± 0.08	(40)	1035 ±1000	L = 0	JENDL-3
64.2			A 0.08 ± 0.08		1035 ±1000		83BENJAMIN+
65.9	(5)	5.5 ± 0.6	A 0.74 ± 0.08	(40)	242 ±50	L = 0	JENDL-3
65.7			0.83 ± 0.083		440 ±44		73SILBERT
65.58 ± 0.25			A 1.07 ± 0.25			GT = 260	83ANUFRIEV+
65.9			A 0.74 ± 0.08		242 ±50		83BENJAMIN+
(67.1)			(0.10)		(50)		73SILBERT
69.5	(4)	1.1 ± 1.1	A 0.12 ± 0.12	(40)	60 ±68	L = 0	JENDL-3
69.3			0.067± 0.01		210 ±31.5		73SILBERT
69.5			A 0.12 ± 0.12		60 ±68		83BENJAMIN+
74.6	(5)	0.94 ± 1.18	A 0.12 ± 0.15	(40)	1166 ±1000	L = 0	JENDL-3
74.6			A 0.12 ± 0.15		1166 ±1000		83BENJAMIN+
75.5	(4)	1.54 ± 0.97	A 0.16 ± 0.10	(40)	130 ±100	L = 0	JENDL-3
75.5			A 0.16 ± 0.10		130 ±100		83BENJAMIN+
77.4	(5)	1.7 ± 1.2	A 0.21 ± 0.15	(40)	605 ±400	L = 0	JENDL-3
77.4			A 0.21 ± 0.15		605 ±400		83BENJAMIN+
78.7	(4)	0.6 ± 0.6	A 0.08 ± 0.06	(40)	44 ±80	L = 0	JENDL-3
78.7			A 0.08 ± 0.06		44 ±80		83BENJAMIN+
79.7	(5)	3.0 ± 0.8	A 0.37 ± 0.10	(40)	149 ±40	L = 0	JENDL-3
79.7			A 0.37 ± 0.10		149 ±40		83BENJAMIN+
81.5	(4)	2.4 ± 1.0	A 0.24 ± 0.10	(40)	40 ±30	L = 0	JENDL-3
81.5			A 0.24 ± 0.10		40 ±30		83BENJAMIN+
85.2	(5)	2.9 ± 1.3	A 0.35 ± 0.15	(40)	490 ±200	L = 0	JENDL-3
85.2			A 0.35 ± 0.15		490 ±200		83BENJAMIN+
86.6	(4)	0.3 ± 0.1	A 0.03 ± 0.10	(40)	150 ±300	L = 0	JENDL-3
86.6			A 0.03 ± 0.10		150 ±300		83BENJAMIN+
88.0	(5)	3.6 ± 0.9	A 0.42 ± 0.10	(40)	188 ±50	L = 0	JENDL-3
88.0			A 0.42 ± 0.10		188 ±50		83BENJAMIN+
89.8	(4)	0.53 ± 3.8	A 0.05 ± 0.36	(40)	10 ±40	L = 0	JENDL-3
89.8			A 0.05 ± 0.36		10 ±40		83BENJAMIN+

* A denotes $2g\Gamma_n^{(0)}$

** L: orbital angular momentum

GT: total width Γ

WGN: $2g\Gamma_n$

*** 73Silbert: Ref.(32)

74Dabbs+: Ref.(33)

83Anufriev+: Ref.(31)

83Benjamin+: Ref.(4)

Table 11 Energy dependence of unresolved resonance parameters and the calculated cross sections of ^{249}Cf

Fixed parameters:

$R = 9.08$ fm

$\Gamma_f^{(2-)} = 530$ meV

$\Gamma_f^{(3-)} = 756$ meV

$\Gamma_f^{(4-)} = 293$ meV

$\Gamma_f^{(5-)} = 483$ meV

$\Gamma_f^{(6-)} = 204$ meV

$\Gamma_f^{(7-)} = 354$ meV

$\Gamma_\gamma = 40$ meV,

$\Gamma_f^{(3+)} = 381$ meV

$\Gamma_f^{(4+)} = 586$ meV

$\Gamma_f^{(5+)} = 238$ meV

$\Gamma_f^{(6+)} = 409$ meV

Energy dependent parameters: the energy dependences of the following parameters are given as the ratio to the initial guess values given below

$S_0 = 1.06 \times 10^{-4}$, $S_1 = 3.15 \times 10^{-4}$, $S_2 = 0.83 \times 10^{-5}$

$D_{obs} = 1.44$ eV

E_n (keV)	$S_0S_1S_2$	D_{obs}	σ_t (b)	σ_c (b)	σ_f (b)
0.07	0.47	1.0	34.9	6.04	18.0
0.08	0.62	1.0	40.5	7.30	22.0
0.1	0.92	1.0	50.7	9.40	29.0
0.125	1.45	1.0	67.1	12.47	40.0
0.175	0.80	1.0	36.8	6.10	20.0
0.25	1.29	1.0	46.2	7.65	25.0
0.3	1.25	1.0	42.0	6.70	22.0
0.4	1.11	1.0	34.8	5.16	17.0
0.5	1.10	1.0	32.1	4.52	15.0
0.6	1.08	1.0	30.0	4.03	13.5
0.8	1.02	1.0	26.4	3.26	11.0
1.0	1.04	1.0	25.0	2.93	10.0
1.25	1.11	1.0	24.5	2.73	9.5
1.5	1.09	1.0	23.0	2.43	8.5
1.75	1.02	1.0	21.4	2.12	7.4

(Table 11 Continue)

E_n (keV)	$S_0S_1S_2$	D_{obs}	σ_t (b)	σ_c (b)	σ_f (b)
2.0	1.03	1.0	20.8	1.99	7.0
3.0	0.99	0.99	18.8	1.57	5.6
4.0	0.98	0.99	17.7	1.36	4.9
5.0	0.97	0.99	17.0	1.22	4.4
6.0	0.95	0.99	16.3	1.11	4.0
8.0	0.95	0.98	15.7	0.99	3.6
10	0.97	0.98	15.4	0.93	3.4
15	0.96	0.97	14.7	0.81	3.0
20	0.95	0.96	14.3	0.75	2.8
30	1.0	0.94	14.1	0.69	2.7

Table 12 Capture and Fission resonance integrals of ^{249}Cf

(barns)

	Capture	Fission
Experimental		
70Halperin[26]		2940
71Halperin[27]	765 ± 35	
72Benjamin[28]		2114 ± 70
74Dabbs[33]		1630
75Zhuravlev[30]		1715 ± 80
76Gavrilov[3]	720 ± 120	1800 ± 200
84Anufriev[31]	800 ± 80(E_c=0.45eV)	
Recommended		
BNL-325 (3)[7]	765 ± 35	2114 ± 70
Present	695	2217

Table 13 Level density parameters of Cf-isotopes

Isotope		246	247	248	249	250
a	(MeV^{-1})	24.22	24.27	24.21	24.42	24.68
$\sigma_M^2/\sqrt{U}$	($MeV^{-1/2}$)	17.16	17.22	17.25	17.37	17.51
Δ	(MeV)	1.27	0.77	1.16	0.72	1.673
Ex	(MeV)	4.38	3.83	4.26	3.82	4.77
T	(MeV)	0.433	0.433	0.433	0.431	0.428

Table 14 Level scheme of ^{249}Cf

No	Energy (keV)	I^{π}	No	Energy (keV)	I^{π}
GS	0.0	$9/2^-$	7	379.5	$7/2^+$
1	62.47	$11/2^-$	8	416.6	$1/2^+$
2	136.2	$13/2^-$	9	437.5	$9/2^+$
3	145.0	$5/2^+$	10	440.0	$3/2^+$
4	188.0	$7/2^+$	11	443.0	$7/2^+$
5	219.0	$(15/2^-)$*	12	460.0	$5/2^+$
6	243.1	$9/2^+$	13	500.6	$9/2^+$

Levels above 550 keV are assumed to be overlapping

* Tentatively assigned by the present authors.

Table 15 Q-values and threshold energies of (n,xn) reaction cross sections for ^{249}Cf

Reaction	Q-value (MeV)	Threshold energy (MeV)
n,2n	- 5.5931	5.6157
n,3n	-12.5718	12.6230
n,4n	-18.5897	18.6650

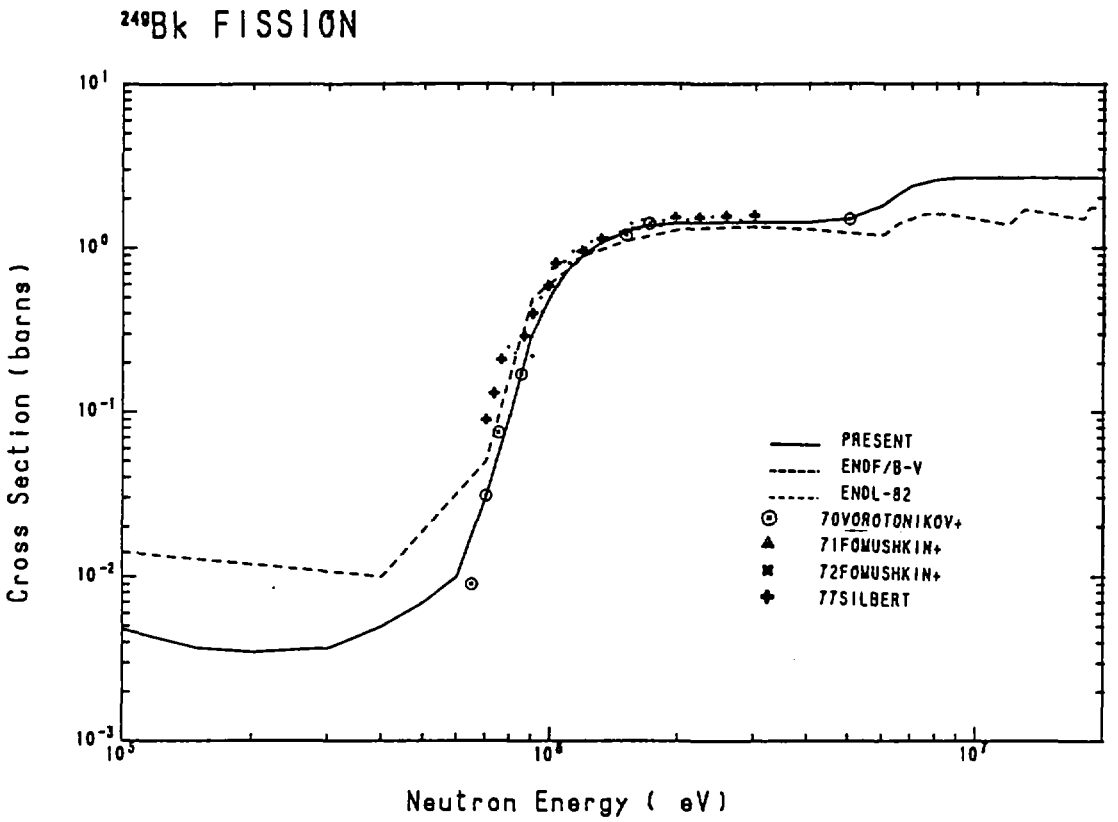

Fig. 1 Fission cross section of ^{249}Bk

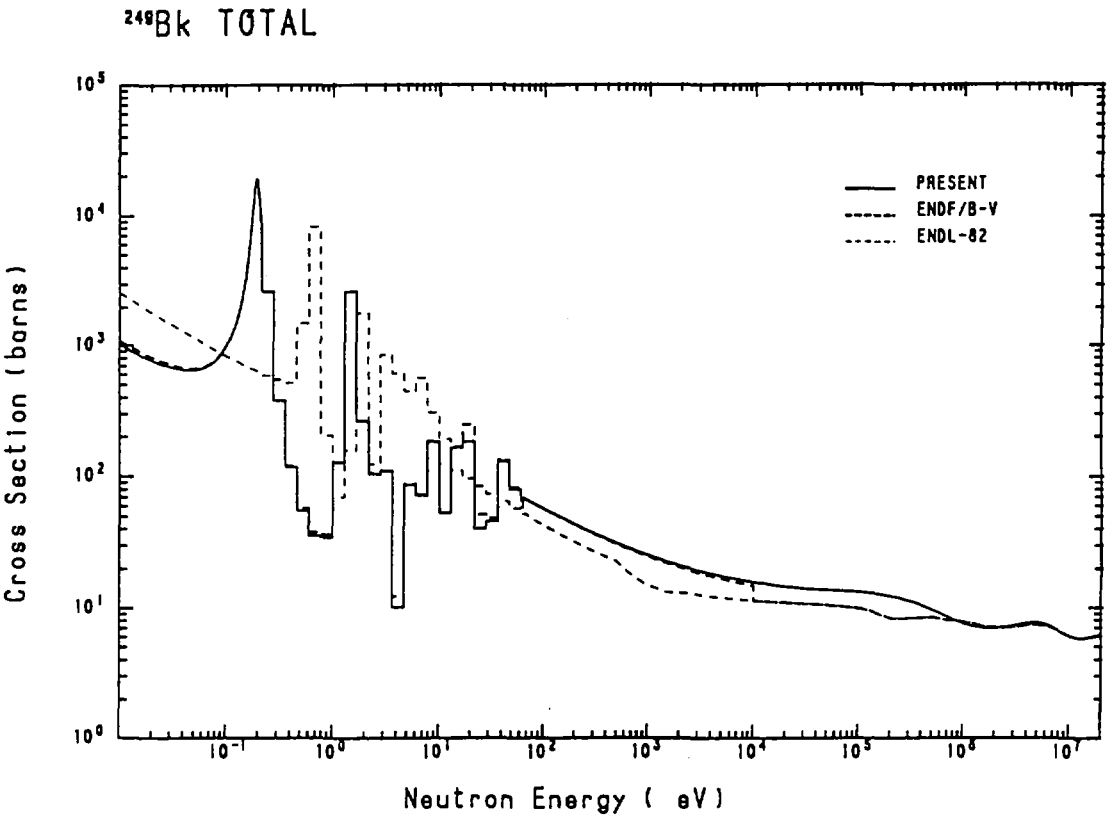

Fig. 2 Total cross section of ^{249}Bk

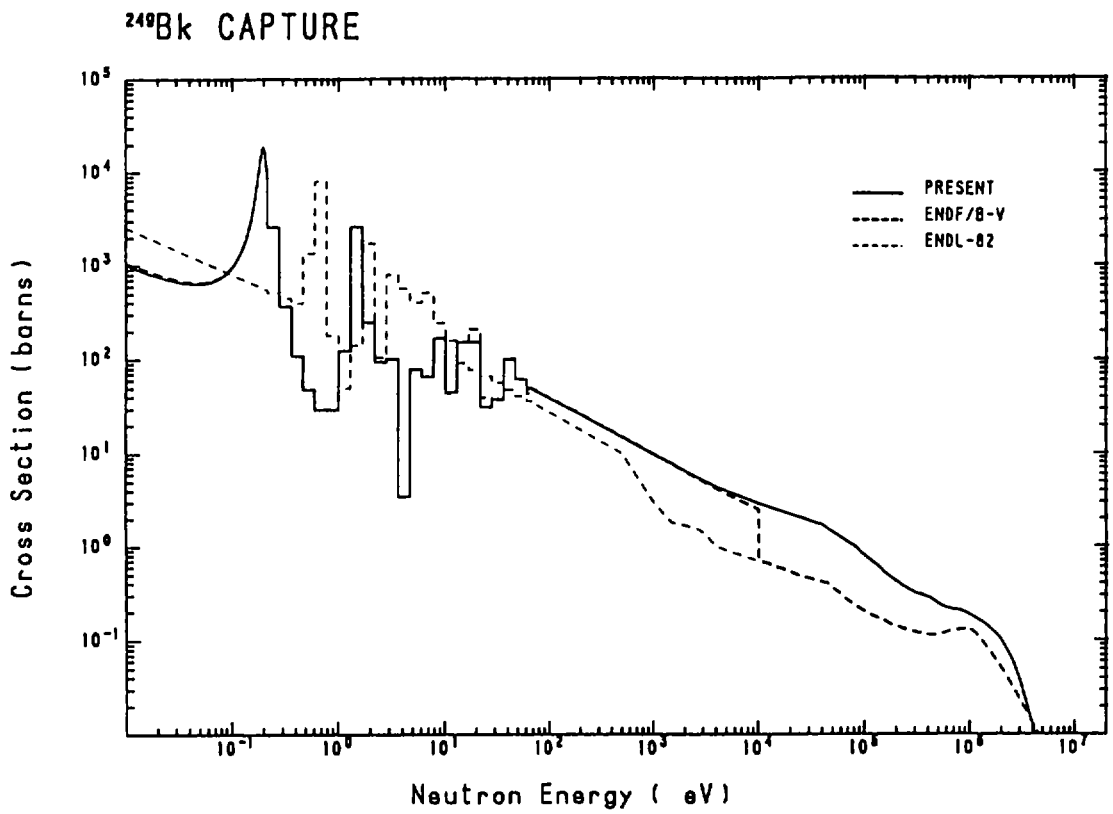

Fig. 3 Capture cross section of ^{249}Bk

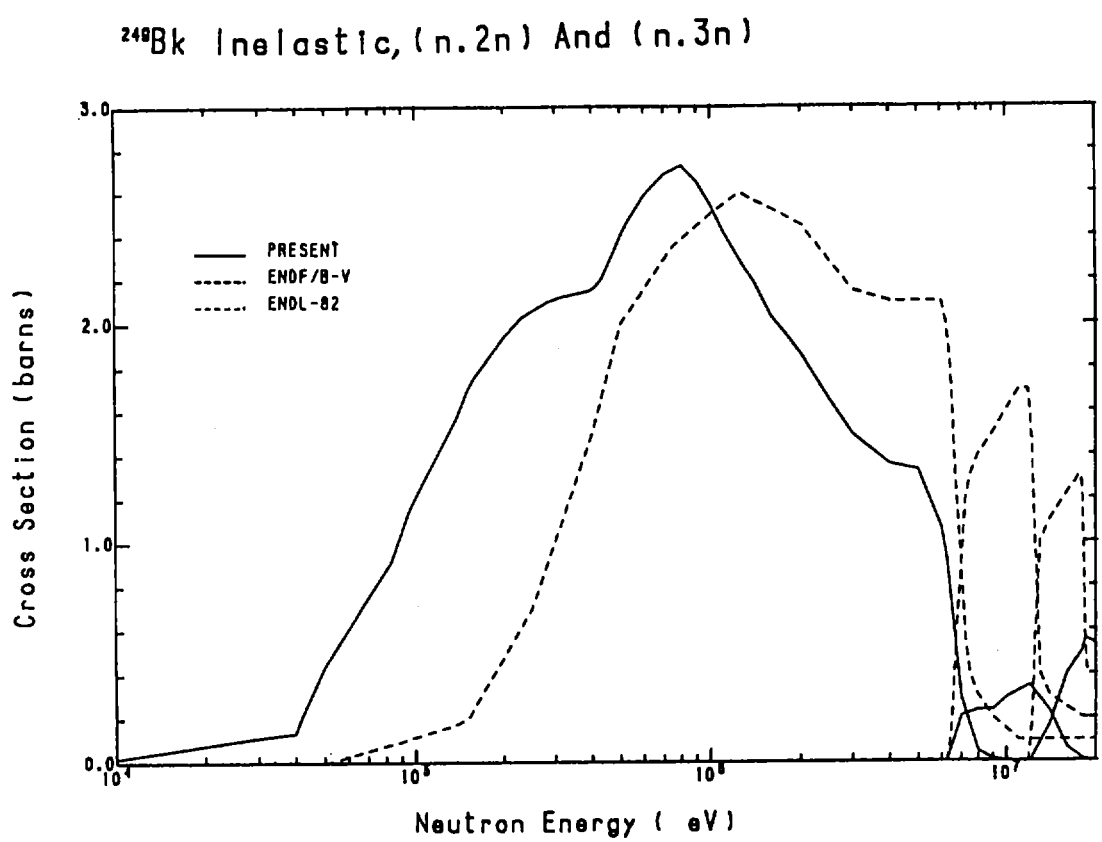

Fig. 4 Inelastic scattering, (n,2n) and (n,3n) reaction cross sections of ^{249}Bk

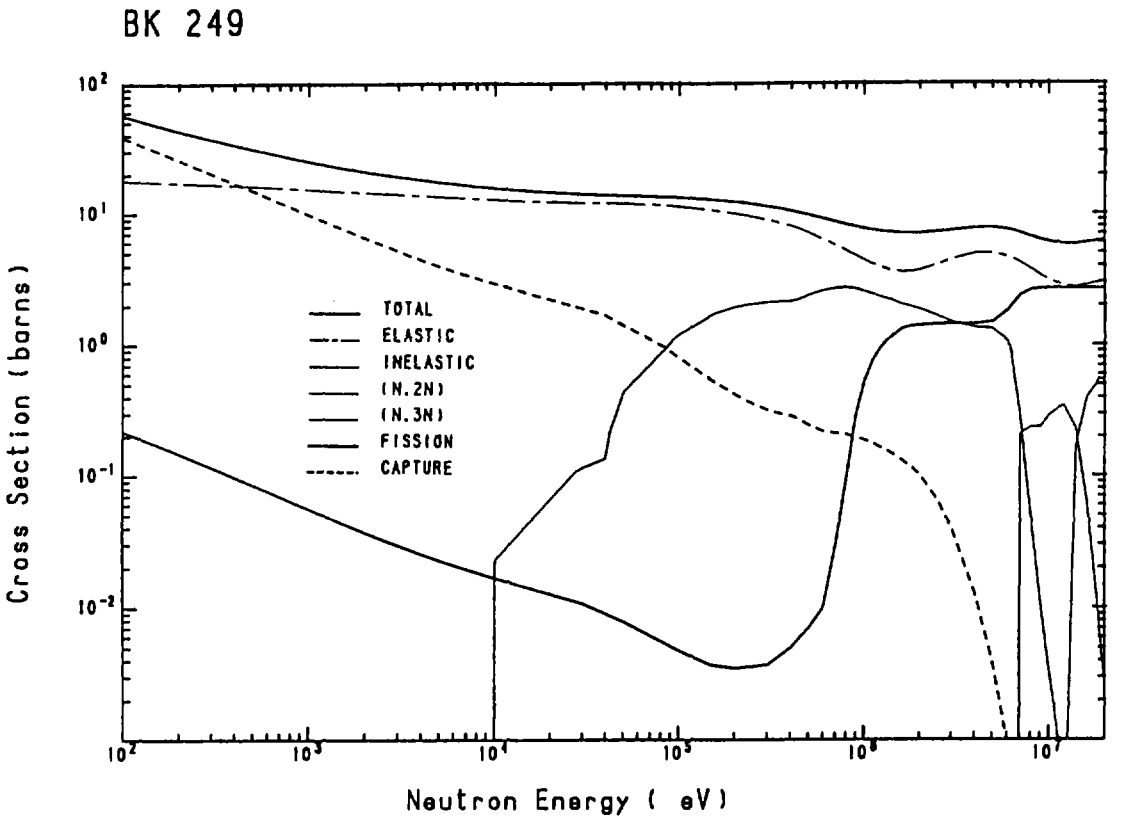

Fig. 5 Evaluated cross sections of ^{249}Bk

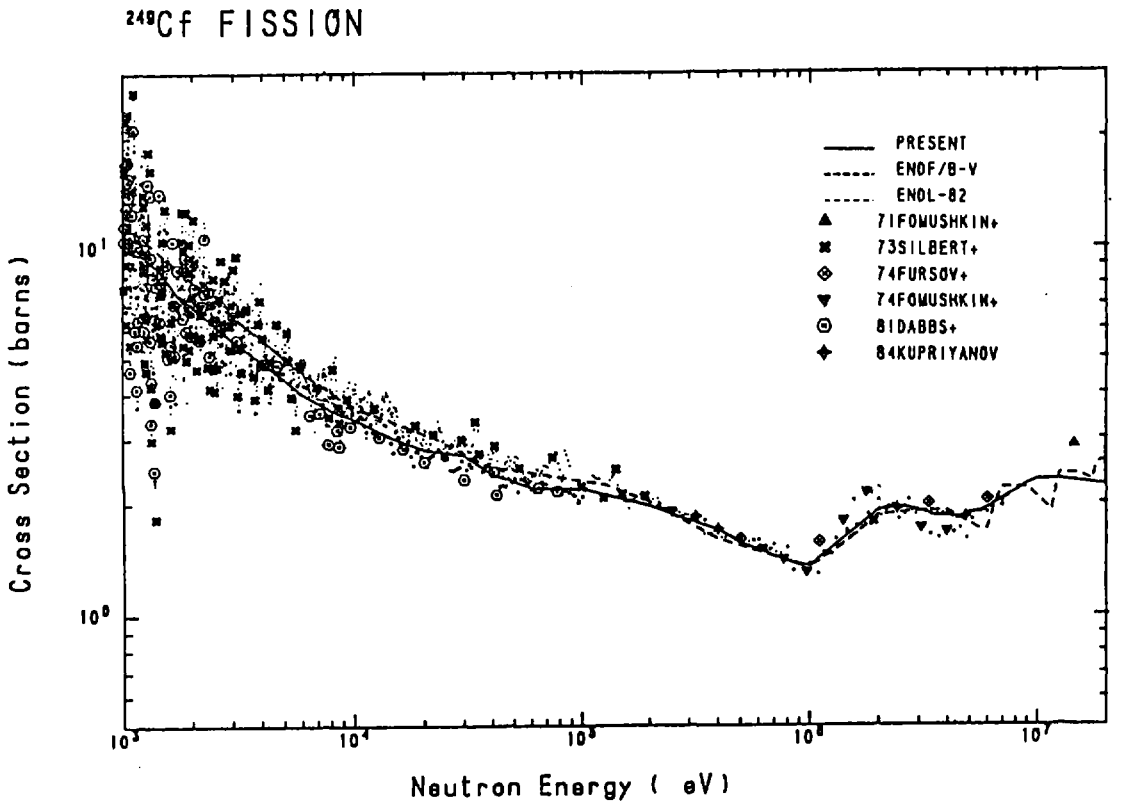

Fig. 6 Fission cross section of ^{249}Cf

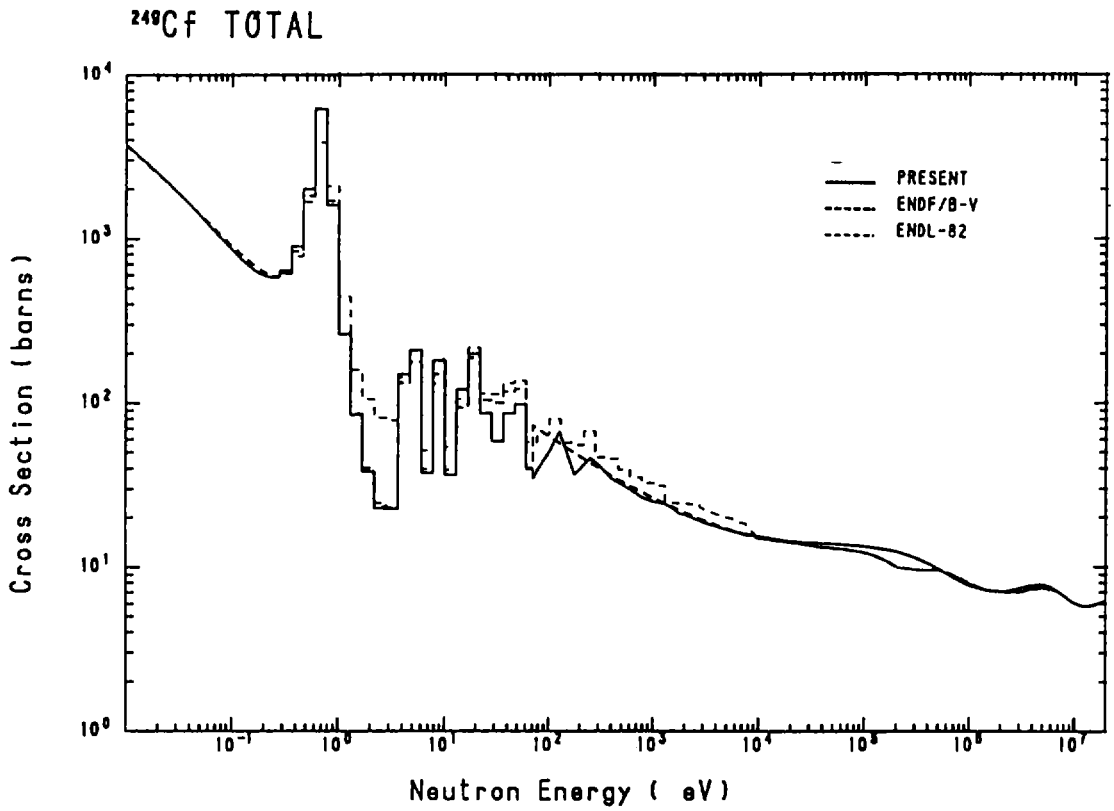

Fig. 7 Total cross section of ^{249}Cf

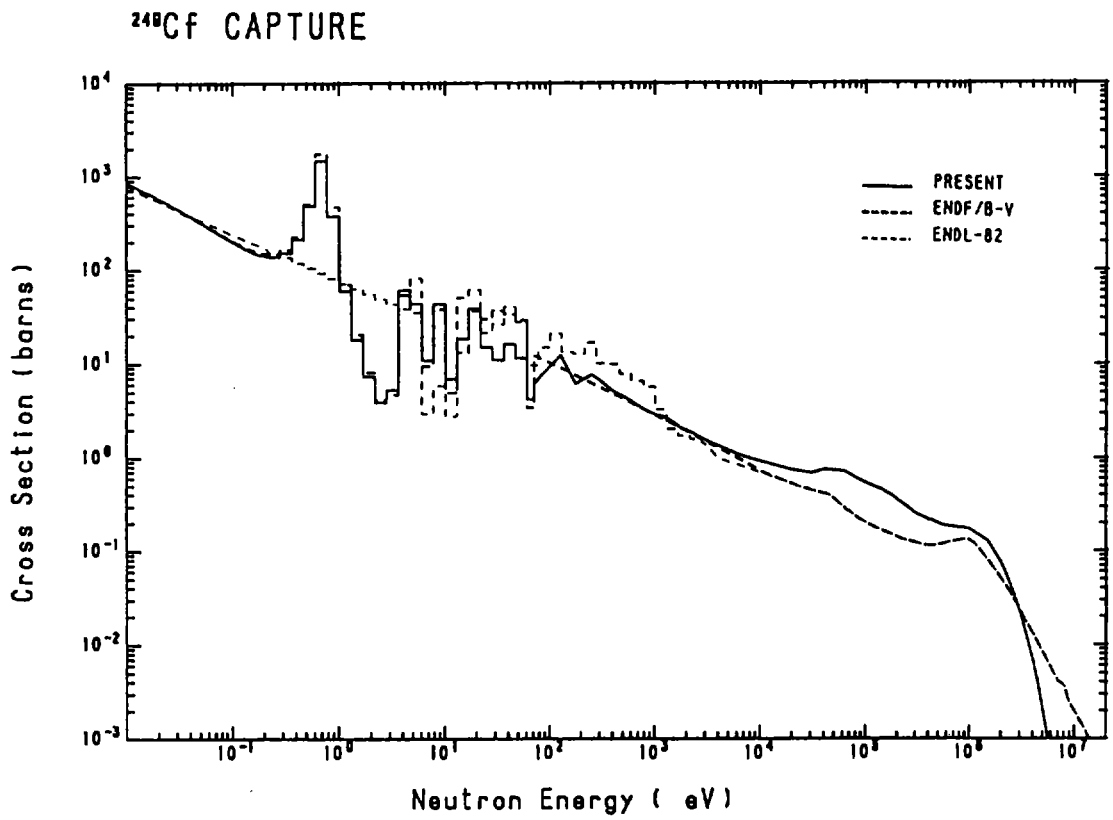

Fig. 8 Capture cross section of ^{249}Cf

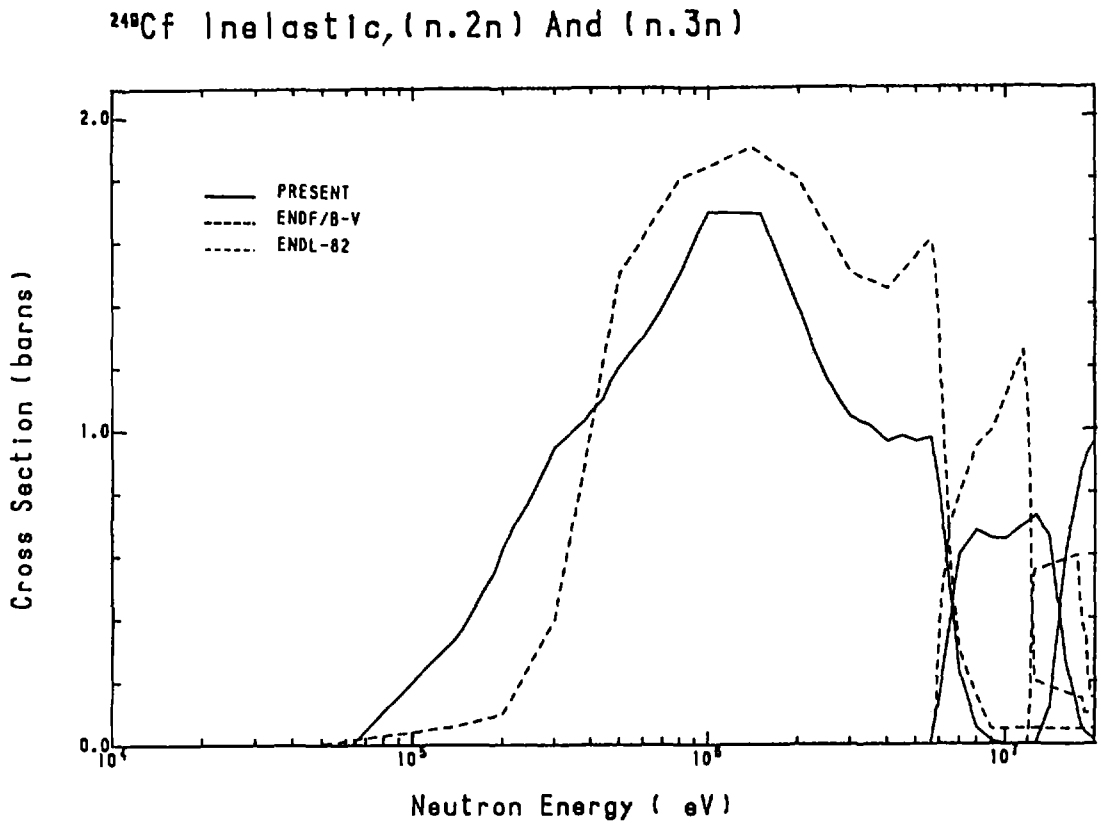

Fig. 9 Inelastic scattering, (n,2n) and (n,3n) reaction cross sections of ^{249}Cf

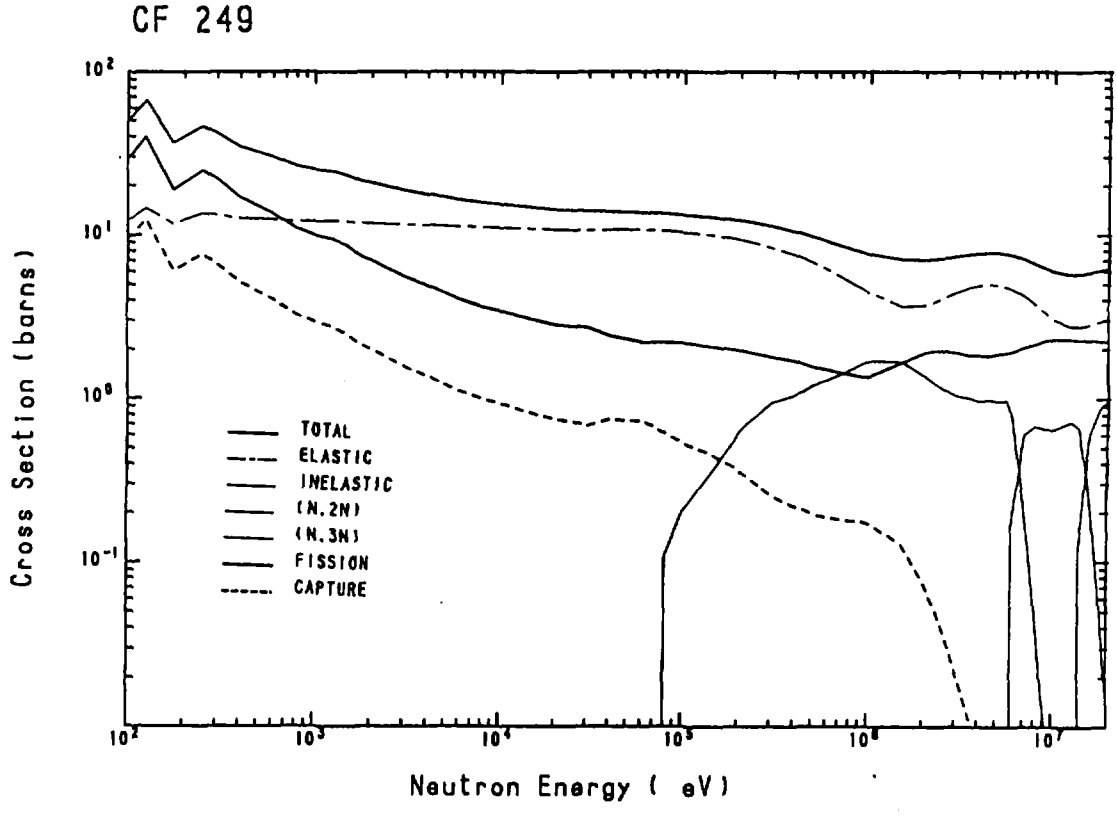

Fig. 10 Evaluated cross sections of ^{249}Cf

Appendix

List of present results in the ENDF/B format

```
  BK-249  JENDL-3   19/2/85                                          0          0
 9.72490+ 4 2.46935+ 2          1          1          0          09749 1451     1
 0.0    + 0 0.0    + 0          0          0          0          09749 1451     2
 0.0    + 0 0.0    + 0          0          0        110         619749 1451     3
 97-BK-249 JAERI      EVAL-MAR85 Y.KIKUCHI AND T.NAKAGAWA          9749 1451     4
 JAERI-M85-           DIST-                                        9749 1451     5
HISTORY                                                            9749 1451     6
85-03 NEW EVALUATION FOR JENDL-3 WAS MADE BY Y.KIKUCHI AND         9749 1451     7
      T.NAKAGAWA (JAERI).  DETAILS ARE GIVEN IN REF. /1/.          9749 1451     8
                                                                   9749 1451     9
MF=1  GENERAL INFORMATION                                          9749 1451    10
  MT=451   COMMENTS AND DICTIONARY                                 9749 1451    11
  MT=452   NUMBER OF NEUTRONS PER FISSION                          9749 1451    12
             SEMI-EMPIRICAL FORMULA BY HOWERTON /2/.               9749 1451    13
  MT=455   DELAYED NEUTRON DATA                                    9749 1451    14
             SEMI-EMPIRICAL FORMULA BY TUTTLE /3/.                 9749 1451    15
                                                                   9749 1451    16
MF=2,MT=151  RESONANCE PARAMETERS                                  9749 1451    17
  RESOLVED RESONANCES FOR MLBW FORMULA : 1.0E-5 EV TO 60 EV        9749 1451    18
    RESONANCE ENERGIES, NEUTRON AND REDIATIVE WIDTHS WERE TAKEN    9749 1451    19
    FROM THE EXPERIMENTAL DATA OF BENJAMIN+ /4/.  FOR RESONANCES   9749 1451    20
    WHOSE RADIATIVE WIDTH WAS UNKNOWN, THE AVERAGE VALUE OF 0.03579749 1451    21
    EV /4/ WAS ADOPTED.  FISSION WIDTH OF 0.0002 EV WAS ESTIMATED 9749 1451    22
    FROM THE THERMAL FISSION CROSS SECTION, WHICH WAS ESTIMATED    9749 1451    23
    FROM THE SYSTEMATICS OF CAPTURE TO FISSION RATIO BY PRINCE/5/.9749 1451    24
    THE PARAMETERS OF THE NEGATIVE RESONANCE WERE ADJUSTED SO AS   9749 1451    25
    REPRODUCE THE THERMAL CROSS SECTIONS. NO BACKGROUND CORRECTION9749 1451    26
    WAS APPLIED.                                                   9749 1451    27
                                                                   9749 1451    28
  UNRESOLVED RESONANCES : 60 EV - 30 KEV                           9749 1451    29
    OBTAIED FROM OPTICAL MODEL CALCULATION:                        9749 1451    30
        S1=3.0E-4  ,S2=0.83E-4  ,R=9.07 FM.                        9749 1451    31
    ESTIMATED FROM RESOLVED RESONANCES:                            9749 1451    32
        DOBS=1.16 EV, GAM-G=35.7 MILLI-EV ,SO=1.13E-4              9749 1451    33
        GAM-F=0.2 MILLI-EV.                                        9749 1451    34
                                                                   9749 1451    35
  CALCULATED 2200 M/S CROSS SECTIONS AND RESONANCE INTEGRALS       9749 1451    36
                   2200 M/S VALUE            RES. INT.             9749 1451    37
      TOTAL         717.5    B                 -                   9749 1451    38
      ELASTIC         3.93   B                 -                   9749 1451    39
      FISSION         3.96   B                12.1 B               9749 1451    40
      CAPTURE       709.6    B               1126   B               9749 1451    41
                                                                   9749 1451    42
MF=3  NEUTRON CROSS SECTIONS                                       9749 1451    43
  MT=1,2,4,51-68,91,102,251   SIG-T,SIG-EL,SIG-IN,SIG-C,MU-BAR     9749 1451    44
        CALCULATED WITH OPTICAL AND STATISTICAL MODELS.            9749 1451    45
        OPTICAL POTENTIAL PARAMETERS WERE OBTAINED BY FITTING THE  9749 1451    46
        TOTAL CROSS SECTION OF PHILLIPS AND HOWE /6/ FOR AM-241:   9749 1451    47
           V = 43.4 - 0.107*EN                        (MEV)        9749 1451    48
           WS= 6.95 - 0.339*EN + 0.0531*EN**2         (MEV)        9749 1451    49
           WV= 0              , VSO = 7.0             (MEV)        9749 1451    50
           R = RSO = 1.282    , RS = 1.29             (FM)         9749 1451    51
           A = ASO = 0.60     , B  = 0.5              (FM)         9749 1451    52
        STATISTICAL MODEL CALCULATION WITH CASTHY CODE /7/.        9749 1451    53
           COMPETING PROCESSES : FISSION,(N,2N),(N,3N),(N,4N).     9749 1451    54
           LEVEL FLUCTUATION CONSIDERED.                           9749 1451    55
        THE LEVEL SCHEME TAKEN FROM REF. /8/.                      9749 1451    56
                   NO.        ENERGY(KEV)   SPIN-PARITY            9749 1451    57
                  G.S.            0           7/2 +               9749 1451    58
                    1             8.8         3/2 -               9749 1451    59
                    2            39.6         5/2 -               9749 1451    60
                    3            41.8         9/2 +               9749 1451    61
                    4            82.6         7/2 -               9749 1451    62
                    5            93.74       11/2 +               9749 1451    63
                    6           137.7         9/2 -               9749 1451    64
                    7           155.84       13/2 +               9749 1451    65
                    8           204.6        11/2 -               9749 1451    66
                    9           229.3        15/2 +               9749 1451    67
                   10           283.0        13/2 -               9749 1451    68
                   11           313.0        17/2 +               9749 1451    69
                   12           372.8        15/2 -               9749 1451    70
                   13           377.6         1/2 +               9749 1451    71
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                    14            389.2          5/2 +                9749 1451   72
                    15            410.6          3/2 +                9749 1451   73
                    16            421.3          5/2 +                9749 1451   74
                    17            428.9          7/2 +                9749 1451   75
                    18            474.9          9/2 +                9749 1451   76
                CONTINUUM LEVELS ASSUMED ABOVE  519 KEV.            9749 1451   77
        THE LEVEL DENSITY PARAMETERS : GILBERT AND CAMERON /9/.     9749 1451   78
        GAMMA-RAY STRENGTH FUNCTION OF 3.2E-2 DEDUCED FROM          9749 1451   79
        RESONANCE PARAMETERS.                                       9749 1451   80
                                                                    9749 1451   81
  MT=16,17,37       (N,2N),(N,3N),(N,4N)                            9749 1451   82
        CALCULATED WITH EVAPORATION MODEL.                          9749 1451   83
                                                                    9749 1451   84
  MT=18             FISSION                                         9749 1451   85
        EVALUATED ON THE BASIS OF THE MEASURED DATA BY SILBERT/10/9749 1451   86
        ,VOROTONIKOV+/11/ AND FOMUSHKIN+ /12/.                      9749 1451   87
                                                                    9749 1451   88
MF=4  ANGULAR DISTRIBUTIONS OF SECONDARY NEUTRONS                   9749 1451   89
  MT=2,51-68          CALCULATED WITH OPTICAL MODEL.                9749 1451   90
  MT=16,17,18,37,91   ISOTROPIC IN THE LABORATORY SYSTEM.           9749 1451   91
                                                                    9749 1451   92
MF=5  ENERGY DISTRIBUTIONS OF SECONDARY NEUTRONS                    9749 1451   93
  MT=16,17,37,91      EVAPORATION SPECTRUM.                         9749 1451   94
  MT=18               MAXWELLIAN FISSION SPECTRUM.                  9749 1451   95
                      TEMPERATURE ESTIMATED FROM SYSTEMATICS OF     9749 1451   96
                      SMITH+/13/.                                   9749 1451   97
                                                                    9749 1451   98
REFERENCES                                                          9749 1451   99
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                                                                    9749 1451  113
                                 1        451        174            9749 1451  114
                                 1        452          3            9749 1451  115
                                 1        455          7            9749 1451  116
                                 2        151        338            9749 1451  117
                                 3          1         47            9749 1451  118
                                 3          2         44            9749 1451  119
                                 3          4         22            9749 1451  120
                                 3         16          7            9749 1451  121
                                 3         17          6            9749 1451  122
                                 3         18         17            9749 1451  123
                                 3         37          4            9749 1451  124
                                 3         51         22            9749 1451  125
                                 3         52         21            9749 1451  126
                                 3         53         21            9749 1451  127
                                 3         54         20            9749 1451  128
                                 3         55         20            9749 1451  129
                                 3         56         19            9749 1451  130
                                 3         57         18            9749 1451  131
                                 3         58         18            9749 1451  132
                                 3         59         17            9749 1451  133
                                 3         60         17            9749 1451  134
                                 3         61         16            9749 1451  135
                                 3         62         16            9749 1451  136
                                 3         63         16            9749 1451  137
                                 3         64         15            9749 1451  138
                                 3         65         15            9749 1451  139
                                 3         66         14            9749 1451  140
                                 3         67         14            9749 1451  141
                                 3         68         14            9749 1451  142
                                 3         91         13            9749 1451  143
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                                        3          102           23            9749 1451  144
                                        3          251           23            9749 1451  145
                                        4            2          261            9749 1451  146
                                        4           16           10            9749 1451  147
                                        4           17           10            9749 1451  148
                                        4           18           10            9749 1451  149
                                        4           37           10            9749 1451  150
                                        4           51           20            9749 1451  151
                                        4           52           20            9749 1451  152
                                        4           53           20            9749 1451  153
                                        4           54           20            9749 1451  154
                                        4           55           20            9749 1451  155
                                        4           56           20            9749 1451  156
                                        4           57           20            9749 1451  157
                                        4           58           20            9749 1451  158
                                        4           59           20            9749 1451  159
                                        4           60           20            9749 1451  160
                                        4           61           20            9749 1451  161
                                        4           62           20            9749 1451  162
                                        4           63           20            9749 1451  163
                                        4           64           20            9749 1451  164
                                        4           65           20            9749 1451  165
                                        4           66           20            9749 1451  166
                                        4           67           20            9749 1451  167
                                        4           68           20            9749 1451  168
                                        4           91           10            9749 1451  169
                                        5           16           17            9749 1451  170
                                        5           17           22            9749 1451  171
                                        5           18            7            9749 1451  172
                                        5           37           25            9749 1451  173
                                        5           91           10            9749 1451  174
                                                                               9749 1  0  175
 9.72490+ 4 2.46935+ 2                  0            1            0           09749 1452  176
 0.0    + 0 0.0    + 0                  0            0            2           09749 1452  177
 3.41000+ 0 2.14000- 7                                                        9749 1452  178
                                                                               9749 1  0  179
 9.72490+ 4 2.46935+ 2                  0            2            0           09749 1455  180
 0.0    + 0 0.0    + 0                  0            0            6           09749 1455  181
 1.29000- 2 3.13000- 2 1.35000- 1 3.33000- 1 1.36000+ 0 4.04000+ 09749 1455  182
 0.0    + 0 0.0    + 0                  0            0            1           49749 1455  183
          4          2                  0            0            0           09749 1455  184
 1.00000- 5 8.90000- 3 6.00000+ 6 8.90000- 3 8.00000+ 6 6.10000- 39749 1455  185
 2.00000+ 7 6.10000- 3                                                        9749 1455  186
                                                                               9749 1  0  187
                                                                               9749 0  0  188
 9.72490+ 4 2.46935+ 2                  0            0            1           09749 2151  189
 9.72490+ 4 1.00000+ 0                  0            0            2           09749 2151  190
 1.00000- 5 6.00000+ 1                  1            2            0           09749 2151  191
 3.50000+ 0 7.73894- 1                  0            0            1           09749 2151  192
 2.46935+ 2 0.0    + 0                  0            0          240          409749 2151  193
-1.67000- 1 4.00000+ 0 3.59175- 2 1.75000- 5 3.57000- 2 2.00000- 49749 2151  194
 1.95000- 1 3.00000+ 0 3.62170- 2 1.17000- 4 3.59000- 2 2.00000- 49749 2151  195
 1.33800+ 0 3.00000+ 0 3.54980- 2 1.98000- 4 3.51000- 2 2.00000- 49749 2151  196
 1.60000+ 0 4.00000+ 0 3.39730- 2 5.73000- 4 3.32000- 2 2.00000- 49749 2151  197
 2.14900+ 0 4.00000+ 0 3.70070- 2 1.07000- 4 3.67000- 2 2.00000- 49749 2151  198
 3.11200+ 0 3.00000+ 0 3.73450- 2 1.45000- 4 3.70000- 2 2.00000- 49749 2151  199
 5.01900+ 0 4.00000+ 0 4.47310- 2 2.31000- 4 4.43000- 2 2.00000- 49749 2151  200
 6.28100+ 0 4.00000+ 0 3.41470- 2 1.47000- 4 3.38000- 2 2.00000- 49749 2151  201
 7.04300+ 0 4.00000+ 0 3.93650- 2 1.65000- 4 3.90000- 2 2.00000- 49749 2151  202
 7.99200+ 0 4.00000+ 0 3.77120- 2 1.41200- 3 3.61000- 2 2.00000- 49749 2151  203
 1.05900+ 1 3.00000+ 0 3.60710- 2 1.71000- 4 3.57000- 2 2.00000- 49749 2151  204
 1.16900+ 1 3.00000+ 0 3.65800- 2 6.80000- 4 3.57000- 2 2.00000- 49749 2151  205
 1.42900+ 1 4.00000+ 0 3.65990- 2 6.99000- 4 3.57000- 2 2.00000- 49749 2151  206
 1.50100+ 1 4.00000+ 0 3.79700- 2 2.07000- 3 3.57000- 2 2.00000- 49749 2151  207
 1.57300+ 1 3.00000+ 0 3.73050- 2 1.40500- 3 3.57000- 2 2.00000- 49749 2151  208
 1.81600+ 1 3.00000+ 0 3.67470- 2 8.47000- 4 3.57000- 2 2.00000- 49749 2151  209
 1.90200+ 1 4.00000+ 0 3.63190- 2 4.19000- 4 3.57000- 2 2.00000- 49749 2151  210
 1.98500+ 1 3.00000+ 0 4.34100- 2 7.50999- 3 3.57000- 2 2.00000- 49749 2151  211
 2.11000+ 1 4.00000+ 0 3.64060- 2 5.06000- 4 3.57000- 2 2.00000- 49749 2151  212
 2.40600+ 1 4.00000+ 0 3.68240- 2 9.24000- 4 3.57000- 2 2.00000- 49749 2151  213
 2.46700+ 1 3.00000+ 0 3.74400- 2 1.54000- 3 3.57000- 2 2.00000- 49749 2151  214
 3.02400+ 1 4.00000+ 0 3.69300- 2 1.03000- 3 3.57000- 2 2.00000- 49749 2151  215
```

```
3.07100+ 1 3.00000+ 0 3.77700- 2 1.87000- 3 3.57000- 2 2.00000- 49749 2151  216
3.58300+ 1 4.00000+ 0 3.80400- 2 2.14000- 3 3.57000- 2 2.00000- 49749 2151  217
3.69300+ 1 3.00000+ 0 4.87200- 2 1.28200- 2 3.57000- 2 2.00000- 49749 2151  218
4.03100+ 1 4.00000+ 0 4.12300- 2 5.33000- 3 3.57000- 2 2.00000- 49749 2151  219
4.09900+ 1 3.00000+ 0 3.77100- 2 1.81000- 3 3.57000- 2 2.00000- 49749 2151  220
4.37600+ 1 4.00000+ 0 3.77900- 2 1.89000- 3 3.57000- 2 2.00000- 49749 2151  221
4.47700+ 1 3.00000+ 0 4.00600- 2 4.16000- 3 3.57000- 2 2.00000- 49749 2151  222
4.67600+ 1 4.00000+ 0 4.24400- 2 6.54000- 3 3.57000- 2 2.00000- 49749 2151  223
5.18500+ 1 4.00000+ 0 3.88200- 2 2.92000- 3 3.57000- 2 2.00000- 49749 2151  224
5.40600+ 1 4.00000+ 0 3.82400- 2 2.34000- 3 3.57000- 2 2.00000- 49749 2151  225
5.66700+ 1 3.00000+ 0 4.14100- 2 5.51000- 3 3.57000- 2 2.00000- 49749 2151  226
5.79100+ 1 4.00000+ 0 4.14600- 2 5.56000- 3 3.57000- 2 2.00000- 49749 2151  227
6.11900+ 1 3.00000+ 0 3.93500- 2 3.45000- 3 3.57000- 2 2.00000- 49749 2151  228
6.17600+ 1 4.00000+ 0 3.71900- 2 1.29000- 3 3.57000- 2 2.00000- 49749 2151  229
8.16900+ 1 3.00000+ 0 4.82000- 2 1.23000- 2 3.57000- 2 2.00000- 49749 2151  230
8.34700+ 1 4.00000+ 0 3.92900- 2 3.39000- 3 3.57000- 2 2.00000- 49749 2151  231
8.47700+ 1 4.00000+ 0 3.88300- 2 2.93000- 3 3.57000- 2 2.00000- 49749 2151  232
9.89800+ 1 3.00000+ 0 4.09000- 2 5.00000- 3 3.57000- 2 2.00000- 49749 2151  233
6.00000+ 1 3.00000+ 4          2          2          0          09749 2151  234
3.50000+ 0 9.07310- 1          0          0          3          09749 2151  235
2.46935+ 2 0.0     + 0          0          0          2          09749 2151  236
3.00000+ 0 0.0     + 0          2          0        138         229749 2151  237
0.0     + 0 0.0     + 0 1.00000+ 0 1.00000+ 0 0.0     + 0 1.00000+ 09749 2151  238
6.00000+ 1 2.65660+ 0 0.0     + 0 3.00200- 4 3.57000- 2 2.05190- 49749 2151  239
8.00000+ 1 2.65650+ 0 0.0     + 0 3.00190- 4 3.57000- 2 2.05190- 49749 2151  240
1.00000+ 2 2.65640+ 0 0.0     + 0 3.00180- 4 3.57000- 2 2.05190- 49749 2151  241
1.50000+ 2 2.65620+ 0 0.0     + 0 3.00150- 4 3.57000- 2 2.05190- 49749 2151  242
2.00000+ 2 2.65590+ 0 0.0     + 0 3.00120- 4 3.57000- 2 2.05190- 49749 2151  243
3.00000+ 2 2.65540+ 0 0.0     + 0 3.00060- 4 3.57000- 2 2.05190- 49749 2151  244
4.00000+ 2 2.65490+ 0 0.0     + 0 3.00000- 4 3.57000- 2 2.05190- 49749 2151  245
5.00000+ 2 2.65440+ 0 0.0     + 0 2.99940- 4 3.57000- 2 2.05190- 49749 2151  246
6.00000+ 2 2.65390+ 0 0.0     + 0 2.99890- 4 3.57000- 2 2.05190- 49749 2151  247
8.00000+ 2 2.65280+ 0 0.0     + 0 2.99770- 4 3.57000- 2 2.05190- 49749 2151  248
1.00000+ 3 2.65180+ 0 0.0     + 0 2.99650- 4 3.57000- 2 2.05190- 49749 2151  249
1.50000+ 3 2.64920+ 0 0.0     + 0 2.99360- 4 3.57000- 2 2.05190- 49749 2151  250
2.00000+ 3 2.64670+ 0 0.0     + 0 2.99070- 4 3.57000- 2 2.05190- 49749 2151  251
3.00000+ 3 2.64150+ 0 0.0     + 0 2.98490- 4 3.57000- 2 2.05190- 49749 2151  252
4.00000+ 3 2.63640+ 0 0.0     + 0 2.97920- 4 3.57000- 2 2.05190- 49749 2151  253
5.00000+ 3 2.63130+ 0 0.0     + 0 2.97340- 4 3.57000- 2 2.05190- 49749 2151  254
6.00000+ 3 2.62620+ 0 0.0     + 0 2.96770- 4 3.57000- 2 2.05190- 49749 2151  255
8.00000+ 3 2.61610+ 0 0.0     + 0 2.95620- 4 3.57000- 2 2.05190- 49749 2151  256
1.00000+ 4 2.60600+ 0 1.07410- 4 2.94480- 4 3.57000- 2 2.05190- 49749 2151  257
1.50000+ 4 2.58090+ 0 1.27380- 3 2.91640- 4 3.57000- 2 2.05190- 49749 2151  258
2.00000+ 4 2.55610+ 0 3.02350- 3 2.88830- 4 3.57000- 2 2.05190- 49749 2151  259
3.00000+ 4 2.50710+ 0 7.49030- 3 2.83300- 4 3.57000- 2 2.05190- 49749 2151  260
4.00000+ 0 0.0     + 0          2          0        138         229749 2151  261
0.0     + 0 0.0     + 0 0.0     + 0 1.00000+ 0 0.0     + 0 1.00000+ 09749 2151  262
6.00000+ 1 2.06630+ 0 0.0     + 0 2.33490- 4 3.57000- 2 2.05190- 49749 2151  263
8.00000+ 1 2.06620+ 0 0.0     + 0 2.33480- 4 3.57000- 2 2.05190- 49749 2151  264
1.00000+ 2 2.06610+ 0 0.0     + 0 2.33470- 4 3.57000- 2 2.05190- 49749 2151  265
1.50000+ 2 2.06590+ 0 0.0     + 0 2.33450- 4 3.57000- 2 2.05190- 49749 2151  266
2.00000+ 2 2.06570+ 0 0.0     + 0 2.33420- 4 3.57000- 2 2.05190- 49749 2151  267
3.00000+ 2 2.06530+ 0 0.0     + 0 2.33380- 4 3.57000- 2 2.05190- 49749 2151  268
4.00000+ 2 2.06490+ 0 0.0     + 0 2.33330- 4 3.57000- 2 2.05190- 49749 2151  269
5.00000+ 2 2.06450+ 0 0.0     + 0 2.33290- 4 3.57000- 2 2.05190- 49749 2151  270
6.00000+ 2 2.06410+ 0 0.0     + 0 2.33240- 4 3.57000- 2 2.05190- 49749 2151  271
8.00000+ 2 2.06330+ 0 0.0     + 0 2.33150- 4 3.57000- 2 2.05190- 49749 2151  272
1.00000+ 3 2.06250+ 0 0.0     + 0 2.33060- 4 3.57000- 2 2.05190- 49749 2151  273
1.50000+ 3 2.06050+ 0 0.0     + 0 2.32840- 4 3.57000- 2 2.05190- 49749 2151  274
2.00000+ 3 2.05850+ 0 0.0     + 0 2.32610- 4 3.57000- 2 2.05190- 49749 2151  275
3.00000+ 3 2.05450+ 0 0.0     + 0 2.32160- 4 3.57000- 2 2.05190- 49749 2151  276
4.00000+ 3 2.05060+ 0 0.0     + 0 2.31710- 4 3.57000- 2 2.05190- 49749 2151  277
5.00000+ 3 2.04660+ 0 0.0     + 0 2.31270- 4 3.57000- 2 2.05190- 49749 2151  278
6.00000+ 3 2.04260+ 0 0.0     + 0 2.30820- 4 3.57000- 2 2.05190- 49749 2151  279
8.00000+ 3 2.03470+ 0 0.0     + 0 2.29930- 4 3.57000- 2 2.05190- 49749 2151  280
1.00000+ 4 2.02690+ 0 0.0     + 0 2.29040- 4 3.57000- 2 2.05190- 49749 2151  281
1.50000+ 4 2.00740+ 0 0.0     + 0 2.26830- 4 3.57000- 2 2.05190- 49749 2151  282
2.00000+ 4 1.98800+ 0 0.0     + 0 2.24650- 4 3.57000- 2 2.05190- 49749 2151  283
3.00000+ 4 1.95000+ 0 0.0     + 0 2.20350- 4 3.57000- 2 2.05190- 49749 2151  284
2.46935+ 2 0.0     + 0          1          0          4          09749 2151  285
2.00000+ 0 0.0     + 0          2          0        138         229749 2151  286
0.0     + 0 0.0     + 0 1.00170+ 0 1.00000+ 0 0.0     + 0 1.00000+ 09749 2151  287
```

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6.00000+ 1 3.71930+ 0 0.0     + 0 1.11580- 3 3.57000- 2 2.05190- 49749 2151  288
8.00000+ 1 3.71910+ 0 0.0     + 0 1.11570- 3 3.57000- 2 2.05190- 49749 2151  289
1.00000+ 2 3.71900+ 0 0.0     + 0 1.11570- 3 3.57000- 2 2.05190- 49749 2151  290
1.50000+ 2 3.71860+ 0 0.0     + 0 1.11560- 3 3.57000- 2 2.05190- 49749 2151  291
2.00000+ 2 3.71830+ 0 0.0     + 0 1.11550- 3 3.57000- 2 2.05190- 49749 2151  292
3.00000+ 2 3.71760+ 0 0.0     + 0 1.11530- 3 3.57000- 2 2.05190- 49749 2151  293
4.00000+ 2 3.71680+ 0 0.0     + 0 1.11500- 3 3.57000- 2 2.05190- 49749 2151  294
5.00000+ 2 3.71610+ 0 0.0     + 0 1.11480- 3 3.57000- 2 2.05190- 49749 2151  295
6.00000+ 2 3.71540+ 0 0.0     + 0 1.11460- 3 3.57000- 2 2.05190- 49749 2151  296
8.00000+ 2 3.71400+ 0 0.0     + 0 1.11420- 3 3.57000- 2 2.05190- 49749 2151  297
1.00000+ 3 3.71250+ 0 0.0     + 0 1.11380- 3 3.57000- 2 2.05190- 49749 2151  298
1.50000+ 3 3.70890+ 0 0.0     + 0 1.11270- 3 3.57000- 2 2.05190- 49749 2151  299
2.00000+ 3 3.70530+ 0 0.0     + 0 1.11160- 3 3.57000- 2 2.05190- 49749 2151  300
3.00000+ 3 3.69820+ 0 0.0     + 0 1.10940- 3 3.57000- 2 2.05190- 49749 2151  301
4.00000+ 3 3.69100+ 0 0.0     + 0 1.10730- 3 3.57000- 2 2.05190- 49749 2151  302
5.00000+ 3 3.68390+ 0 0.0     + 0 1.10520- 3 3.57000- 2 2.05190- 49749 2151  303
6.00000+ 3 3.67670+ 0 0.0     + 0 1.10300- 3 3.57000- 2 2.05190- 49749 2151  304
8.00000+ 3 3.66250+ 0 0.0     + 0 1.09880- 3 3.57000- 2 2.05190- 49749 2151  305
1.00000+ 4 3.64840+ 0 1.40680- 2 1.09450- 3 3.57000- 2 2.05190- 49749 2151  306
1.50000+ 4 3.61330+ 0 3.20590- 2 1.08400- 3 3.57000- 2 2.05190- 49749 2151  307
2.00000+ 4 3.57850+ 0 4.27360- 2 1.07350- 3 3.57000- 2 2.05190- 49749 2151  308
3.00000+ 4 3.51000+ 0 5.77510- 2 1.05300- 3 3.57000- 2 2.05190- 49749 2151  309
3.00000+ 0 0.0     + 0          2          0         138          229749 2151  310
0.0     + 0 0.0     + 0 2.00000+ 0 2.00000+ 0 0.0     + 0 1.00000+ 09749 2151  311
6.00000+ 1 2.65660+ 0 0.0     + 0 7.96990- 4 3.57000- 2 2.05190- 49749 2151  312
8.00000+ 1 2.65650+ 0 0.0     + 0 7.96960- 4 3.57000- 2 2.05190- 49749 2151  313
1.00000+ 2 2.65640+ 0 0.0     + 0 7.96930- 4 3.57000- 2 2.05190- 49749 2151  314
1.50000+ 2 2.65620+ 0 0.0     + 0 7.96850- 4 3.57000- 2 2.05190- 49749 2151  315
2.00000+ 2 2.65590+ 0 0.0     + 0 7.96770- 4 3.57000- 2 2.05190- 49749 2151  316
3.00000+ 2 2.65540+ 0 0.0     + 0 7.96620- 4 3.57000- 2 2.05190- 49749 2151  317
4.00000+ 2 2.65490+ 0 0.0     + 0 7.96460- 4 3.57000- 2 2.05190- 49749 2151  318
5.00000+ 2 2.65440+ 0 0.0     + 0 7.96310- 4 3.57000- 2 2.05190- 49749 2151  319
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8.00000+ 2 2.65280+ 0 0.0     + 0 7.95850- 4 3.57000- 2 2.05190- 49749 2151  321
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3.00000+ 3 2.64150+ 0 0.0     + 0 7.92460- 4 3.57000- 2 2.05190- 49749 2151  325
4.00000+ 3 2.63640+ 0 0.0     + 0 7.90930- 4 3.57000- 2 2.05190- 49749 2151  326
5.00000+ 3 2.63130+ 0 0.0     + 0 7.89400- 4 3.57000- 2 2.05190- 49749 2151  327
6.00000+ 3 2.62620+ 0 0.0     + 0 7.87870- 4 3.57000- 2 2.05190- 49749 2151  328
8.00000+ 3 2.61610+ 0 0.0     + 0 7.84830- 4 3.57000- 2 2.05190- 49749 2151  329
1.00000+ 4 2.60600+ 0 2.67700- 8 7.81800- 4 3.57000- 2 2.05190- 49749 2151  330
1.50000+ 4 2.58090+ 0 1.69990- 6 7.74270- 4 3.57000- 2 2.05190- 49749 2151  331
2.00000+ 4 2.55610+ 0 7.38840- 6 7.66820- 4 3.57000- 2 2.05190- 49749 2151  332
3.00000+ 4 2.50710+ 0 3.54380- 5 7.52130- 4 3.57000- 2 2.05190- 49749 2151  333
4.00000+ 0 0.0     + 0          2          0         138          229749 2151  334
0.0     + 0 0.0     + 0 1.00000+ 0 2.00000+ 0 0.0     + 0 1.00000+ 09749 2151  335
6.00000+ 1 2.06630+ 0 0.0     + 0 6.19880- 4 3.57000- 2 2.05190- 49749 2151  336
8.00000+ 1 2.06620+ 0 0.0     + 0 6.19860- 4 3.57000- 2 2.05190- 49749 2151  337
1.00000+ 2 2.06610+ 0 0.0     + 0 6.19830- 4 3.57000- 2 2.05190- 49749 2151  338
1.50000+ 2 2.06590+ 0 0.0     + 0 6.19770- 4 3.57000- 2 2.05190- 49749 2151  339
2.00000+ 2 2.06570+ 0 0.0     + 0 6.19710- 4 3.57000- 2 2.05190- 49749 2151  340
3.00000+ 2 2.06530+ 0 0.0     + 0 6.19590- 4 3.57000- 2 2.05190- 49749 2151  341
4.00000+ 2 2.06490+ 0 0.0     + 0 6.19470- 4 3.57000- 2 2.05190- 49749 2151  342
5.00000+ 2 2.06450+ 0 0.0     + 0 6.19350- 4 3.57000- 2 2.05190- 49749 2151  343
6.00000+ 2 2.06410+ 0 0.0     + 0 6.19230- 4 3.57000- 2 2.05190- 49749 2151  344
8.00000+ 2 2.06330+ 0 0.0     + 0 6.18990- 4 3.57000- 2 2.05190- 49749 2151  345
1.00000+ 3 2.06250+ 0 0.0     + 0 6.18750- 4 3.57000- 2 2.05190- 49749 2151  346
1.50000+ 3 2.06050+ 0 0.0     + 0 6.18150- 4 3.57000- 2 2.05190- 49749 2151  347
2.00000+ 3 2.05850+ 0 0.0     + 0 6.17560- 4 3.57000- 2 2.05190- 49749 2151  348
3.00000+ 3 2.05450+ 0 0.0     + 0 6.16360- 4 3.57000- 2 2.05190- 49749 2151  349
4.00000+ 3 2.05060+ 0 0.0     + 0 6.15170- 4 3.57000- 2 2.05190- 49749 2151  350
5.00000+ 3 2.04660+ 0 0.0     + 0 6.13980- 4 3.57000- 2 2.05190- 49749 2151  351
6.00000+ 3 2.04260+ 0 0.0     + 0 6.12790- 4 3.57000- 2 2.05190- 49749 2151  352
8.00000+ 3 2.03470+ 0 0.0     + 0 6.10420- 4 3.57000- 2 2.05190- 49749 2151  353
1.00000+ 4 2.02690+ 0 1.04110- 8 6.08060- 4 3.57000- 2 2.05190- 49749 2151  354
1.50000+ 4 2.00740+ 0 6.61080- 7 6.02210- 4 3.57000- 2 2.05190- 49749 2151  355
2.00000+ 4 1.98800+ 0 2.87330- 6 5.96410- 4 3.57000- 2 2.05190- 49749 2151  356
3.00000+ 4 1.95000+ 0 1.37810- 5 5.84990- 4 3.57000- 2 2.05190- 49749 2151  357
5.00000+ 0 0.0     + 0          2          0         138          229749 2151  358
0.0     + 0 0.0     + 0 0.0     + 0 1.00000+ 0 0.0     + 0 1.00000+ 09749 2151  359
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3.00000+ 2 1.68980+ 0 0.0     + 0 5.06940- 4 3.57000- 2 2.05190- 49749 2151  365
4.00000+ 2 1.68950+ 0 0.0     + 0 5.06840- 4 3.57000- 2 2.05190- 49749 2151  366
5.00000+ 2 1.68910+ 0 0.0     + 0 5.06740- 4 3.57000- 2 2.05190- 49749 2151  367
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8.00000+ 2 1.68820+ 0 0.0     + 0 5.06450- 4 3.57000- 2 2.05190- 49749 2151  369
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2.00000+ 3 1.68420+ 0 0.0     + 0 5.05270- 4 3.57000- 2 2.05190- 49749 2151  372
3.00000+ 3 1.68100+ 0 0.0     + 0 5.04290- 4 3.57000- 2 2.05190- 49749 2151  373
4.00000+ 3 1.67770+ 0 0.0     + 0 5.03320- 4 3.57000- 2 2.05190- 49749 2151  374
5.00000+ 3 1.67450+ 0 0.0     + 0 5.02350- 4 3.57000- 2 2.05190- 49749 2151  375
6.00000+ 3 1.67120+ 0 0.0     + 0 5.01370- 4 3.57000- 2 2.05190- 49749 2151  376
8.00000+ 3 1.66480+ 0 0.0     + 0 4.99440- 4 3.57000- 2 2.05190- 49749 2151  377
1.00000+ 4 1.65840+ 0 0.0     + 0 4.97510- 4 3.57000- 2 2.05190- 49749 2151  378
1.50000+ 4 1.64240+ 0 0.0     + 0 4.92720- 4 3.57000- 2 2.05190- 49749 2151  379
2.00000+ 4 1.62660+ 0 0.0     + 0 4.87970- 4 3.57000- 2 2.05190- 49749 2151  380
3.00000+ 4 1.59540+ 0 0.0     + 0 4.78630- 4 3.57000- 2 2.05190- 49749 2151  381
2.46935+ 2 0.0     + 0            2           0           6           09749 2151  382
1.00000+ 0 0.0     + 0            2           0         138          229749 2151  383
0.0     + 0 0.0     + 0 2.00000+ 0 1.00000+ 0 0.0     + 0 1.00000+ 09749 2151  384
6.00000+ 1 6.19880+ 0 0.0     + 0 5.14500- 4 3.57000- 2 2.05190- 49749 2151  385
8.00000+ 1 6.19860+ 0 0.0     + 0 5.14480- 4 3.57000- 2 2.05190- 49749 2151  386
1.00000+ 2 6.19830+ 0 0.0     + 0 5.14460- 4 3.57000- 2 2.05190- 49749 2151  387
1.50000+ 2 6.19770+ 0 0.0     + 0 5.14410- 4 3.57000- 2 2.05190- 49749 2151  388
2.00000+ 2 6.19710+ 0 0.0     + 0 5.14360- 4 3.57000- 2 2.05190- 49749 2151  389
3.00000+ 2 6.19590+ 0 0.0     + 0 5.14260- 4 3.57000- 2 2.05190- 49749 2151  390
4.00000+ 2 6.19470+ 0 0.0     + 0 5.14160- 4 3.57000- 2 2.05190- 49749 2151  391
5.00000+ 2 6.19350+ 0 0.0     + 0 5.14060- 4 3.57000- 2 2.05190- 49749 2151  392
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8.00000+ 2 6.18990+ 0 0.0     + 0 5.13760- 4 3.57000- 2 2.05190- 49749 2151  394
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3.00000+ 3 6.16360+ 0 0.0     + 0 5.11580- 4 3.57000- 2 2.05190- 49749 2151  398
4.00000+ 3 6.15170+ 0 0.0     + 0 5.10590- 4 3.57000- 2 2.05190- 49749 2151  399
5.00000+ 3 6.13980+ 0 0.0     + 0 5.09600- 4 3.57000- 2 2.05190- 49749 2151  400
6.00000+ 3 6.12790+ 0 0.0     + 0 5.08620- 4 3.57000- 2 2.05190- 49749 2151  401
8.00000+ 3 6.10420+ 0 0.0     + 0 5.06650- 4 3.57000- 2 2.05190- 49749 2151  402
1.00000+ 4 6.08060+ 0 5.01270- 4 5.04690- 4 3.57000- 2 2.05190- 49749 2151  403
1.50000+ 4 6.02210+ 0 5.94460- 3 4.99830- 4 3.57000- 2 2.05190- 49749 2151  404
2.00000+ 4 5.96410+ 0 1.41100- 2 4.95020- 4 3.57000- 2 2.05190- 49749 2151  405
3.00000+ 4 5.84990+ 0 3.49550- 2 4.85540- 4 3.57000- 2 2.05190- 49749 2151  406
2.00000+ 0 0.0     + 0            2           0         138          229749 2151  407
0.0     + 0 0.0     + 0 2.00000+ 0 2.00000+ 0 0.0     + 0 1.00000+ 09749 2151  408
6.00000+ 1 3.71930+ 0 0.0     + 0 3.08700- 4 3.57000- 2 2.05190- 49749 2151  409
8.00000+ 1 3.71910+ 0 0.0     + 0 3.08690- 4 3.57000- 2 2.05190- 49749 2151  410
1.00000+ 2 3.71900+ 0 0.0     + 0 3.08680- 4 3.57000- 2 2.05190- 49749 2151  411
1.50000+ 2 3.71860+ 0 0.0     + 0 3.08650- 4 3.57000- 2 2.05190- 49749 2151  412
2.00000+ 2 3.71830+ 0 0.0     + 0 3.08620- 4 3.57000- 2 2.05190- 49749 2151  413
3.00000+ 2 3.71760+ 0 0.0     + 0 3.08560- 4 3.57000- 2 2.05190- 49749 2151  414
4.00000+ 2 3.71680+ 0 0.0     + 0 3.08500- 4 3.57000- 2 2.05190- 49749 2151  415
5.00000+ 2 3.71610+ 0 0.0     + 0 3.08440- 4 3.57000- 2 2.05190- 49749 2151  416
6.00000+ 2 3.71540+ 0 0.0     + 0 3.08380- 4 3.57000- 2 2.05190- 49749 2151  417
8.00000+ 2 3.71400+ 0 0.0     + 0 3.08260- 4 3.57000- 2 2.05190- 49749 2151  418
1.00000+ 3 3.71250+ 0 0.0     + 0 3.08140- 4 3.57000- 2 2.05190- 49749 2151  419
1.50000+ 3 3.70890+ 0 0.0     + 0 3.07840- 4 3.57000- 2 2.05190- 49749 2151  420
2.00000+ 3 3.70530+ 0 0.0     + 0 3.07540- 4 3.57000- 2 2.05190- 49749 2151  421
3.00000+ 3 3.69820+ 0 0.0     + 0 3.06950- 4 3.57000- 2 2.05190- 49749 2151  422
4.00000+ 3 3.69100+ 0 0.0     + 0 3.06350- 4 3.57000- 2 2.05190- 49749 2151  423
5.00000+ 3 3.68390+ 0 0.0     + 0 3.05760- 4 3.57000- 2 2.05190- 49749 2151  424
6.00000+ 3 3.67670+ 0 0.0     + 0 3.05170- 4 3.57000- 2 2.05190- 49749 2151  425
8.00000+ 3 3.66250+ 0 0.0     + 0 3.03990- 4 3.57000- 2 2.05190- 49749 2151  426
1.00000+ 4 3.64840+ 0 3.00760- 4 3.02820- 4 3.57000- 2 2.05190- 49749 2151  427
1.50000+ 4 3.61330+ 0 3.56680- 3 2.99900- 4 3.57000- 2 2.05190- 49749 2151  428
2.00000+ 4 3.57850+ 0 8.46590- 3 2.97010- 4 3.57000- 2 2.05190- 49749 2151  429
3.00000+ 4 3.51000+ 0 2.09730- 2 2.91330- 4 3.57000- 2 2.05190- 49749 2151  430
3.00000+ 0 0.0     + 0            2           0         138          229749 2151  431
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0.0     + 0 0.0     + 0 1.00000+ 0 2.00000+ 0 0.0     + 0 1.00000+ 09749 2151  432
6.00000+ 1 2.65660+ 0 0.0     + 0 2.20500- 4 3.57000- 2 2.05190- 49749 2151  433
8.00000+ 1 2.65650+ 0 0.0     + 0 2.20490- 4 3.57000- 2 2.05190- 49749 2151  434
1.00000+ 2 2.65640+ 0 0.0     + 0 2.20480- 4 3.57000- 2 2.05190- 49749 2151  435
1.50000+ 2 2.65620+ 0 0.0     + 0 2.20460- 4 3.57000- 2 2.05190- 49749 2151  436
2.00000+ 2 2.65590+ 0 0.0     + 0 2.20440- 4 3.57000- 2 2.05190- 49749 2151  437
3.00000+ 2 2.65540+ 0 0.0     + 0 2.20400- 4 3.57000- 2 2.05190- 49749 2151  438
4.00000+ 2 2.65490+ 0 0.0     + 0 2.20360- 4 3.57000- 2 2.05190- 49749 2151  439
5.00000+ 2 2.65440+ 0 0.0     + 0 2.20310- 4 3.57000- 2 2.05190- 49749 2151  440
6.00000+ 2 2.65390+ 0 0.0     + 0 2.20270- 4 3.57000- 2 2.05190- 49749 2151  441
8.00000+ 2 2.65280+ 0 0.0     + 0 2.20180- 4 3.57000- 2 2.05190- 49749 2151  442
1.00000+ 3 2.65180+ 0 0.0     + 0 2.20100- 4 3.57000- 2 2.05190- 49749 2151  443
1.50000+ 3 2.64920+ 0 0.0     + 0 2.19890- 4 3.57000- 2 2.05190- 49749 2151  444
2.00000+ 3 2.64670+ 0 0.0     + 0 2.19670- 4 3.57000- 2 2.05190- 49749 2151  445
3.00000+ 3 2.64150+ 0 0.0     + 0 2.19250- 4 3.57000- 2 2.05190- 49749 2151  446
4.00000+ 3 2.63640+ 0 0.0     + 0 2.18820- 4 3.57000- 2 2.05190- 49749 2151  447
5.00000+ 3 2.63130+ 0 0.0     + 0 2.18400- 4 3.57000- 2 2.05190- 49749 2151  448
6.00000+ 3 2.62620+ 0 0.0     + 0 2.17980- 4 3.57000- 2 2.05190- 49749 2151  449
8.00000+ 3 2.61610+ 0 0.0     + 0 2.17140- 4 3.57000- 2 2.05190- 49749 2151  450
1.00000+ 4 2.60600+ 0 1.07410- 4 2.16300- 4 3.57000- 2 2.05190- 49749 2151  451
1.50000+ 4 2.58090+ 0 1.27380- 3 2.14210- 4 3.57000- 2 2.05190- 49749 2151  452
2.00000+ 4 2.55610+ 0 3.02350- 3 2.12150- 4 3.57000- 2 2.05190- 49749 2151  453
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4.00000+ 0 0.0     + 0           2           0         138          229749 2151  455
0.0     + 0 0.0     + 0 0.0     + 0 2.00000+ 0 0.0     + 0 1.00000+ 09749 2151  456
6.00000+ 1 2.06630+ 0 0.0     + 0 1.71500- 4 3.57000- 2 2.05190- 49749 2151  457
8.00000+ 1 2.06620+ 0 0.0     + 0 1.71490- 4 3.57000- 2 2.05190- 49749 2151  458
1.00000+ 2 2.06610+ 0 0.0     + 0 1.71490- 4 3.57000- 2 2.05190- 49749 2151  459
1.50000+ 2 2.06590+ 0 0.0     + 0 1.71470- 4 3.57000- 2 2.05190- 49749 2151  460
2.00000+ 2 2.06570+ 0 0.0     + 0 1.71450- 4 3.57000- 2 2.05190- 49749 2151  461
3.00000+ 2 2.06530+ 0 0.0     + 0 1.71420- 4 3.57000- 2 2.05190- 49749 2151  462
4.00000+ 2 2.06490+ 0 0.0     + 0 1.71390- 4 3.57000- 2 2.05190- 49749 2151  463
5.00000+ 2 2.06450+ 0 0.0     + 0 1.71350- 4 3.57000- 2 2.05190- 49749 2151  464
6.00000+ 2 2.06410+ 0 0.0     + 0 1.71320- 4 3.57000- 2 2.05190- 49749 2151  465
8.00000+ 2 2.06330+ 0 0.0     + 0 1.71250- 4 3.57000- 2 2.05190- 49749 2151  466
1.00000+ 3 2.06250+ 0 0.0     + 0 1.71190- 4 3.57000- 2 2.05190- 49749 2151  467
1.50000+ 3 2.06050+ 0 0.0     + 0 1.71020- 4 3.57000- 2 2.05190- 49749 2151  468
2.00000+ 3 2.05850+ 0 0.0     + 0 1.70860- 4 3.57000- 2 2.05190- 49749 2151  469
3.00000+ 3 2.05450+ 0 0.0     + 0 1.70530- 4 3.57000- 2 2.05190- 49749 2151  470
4.00000+ 3 2.05060+ 0 0.0     + 0 1.70200- 4 3.57000- 2 2.05190- 49749 2151  471
5.00000+ 3 2.04660+ 0 0.0     + 0 1.69870- 4 3.57000- 2 2.05190- 49749 2151  472
6.00000+ 3 2.04260+ 0 0.0     + 0 1.69540- 4 3.57000- 2 2.05190- 49749 2151  473
8.00000+ 3 2.03470+ 0 0.0     + 0 1.68880- 4 3.57000- 2 2.05190- 49749 2151  474
1.00000+ 4 2.02690+ 0 0.0     + 0 1.68230- 4 3.57000- 2 2.05190- 49749 2151  475
1.50000+ 4 2.00740+ 0 0.0     + 0 1.66610- 4 3.57000- 2 2.05190- 49749 2151  476
2.00000+ 4 1.98800+ 0 0.0     + 0 1.65010- 4 3.57000- 2 2.05190- 49749 2151  477
3.00000+ 4 1.95000+ 0 0.0     + 0 1.61850- 4 3.57000- 2 2.05190- 49749 2151  478
5.00000+ 0 0.0     + 0           2           0         138          229749 2151  479
0.0     + 0 0.0     + 0 0.0     + 0 2.00000+ 0 0.0     + 0 1.00000+ 09749 2151  480
6.00000+ 1 1.69060+ 0 0.0     + 0 1.40320- 4 3.57000- 2 2.05190- 49749 2151  481
8.00000+ 1 1.69050+ 0 0.0     + 0 1.40310- 4 3.57000- 2 2.05190- 49749 2151  482
1.00000+ 2 1.69050+ 0 0.0     + 0 1.40310- 4 3.57000- 2 2.05190- 49749 2151  483
1.50000+ 2 1.69030+ 0 0.0     + 0 1.40290- 4 3.57000- 2 2.05190- 49749 2151  484
2.00000+ 2 1.69010+ 0 0.0     + 0 1.40280- 4 3.57000- 2 2.05190- 49749 2151  485
3.00000+ 2 1.68980+ 0 0.0     + 0 1.40250- 4 3.57000- 2 2.05190- 49749 2151  486
4.00000+ 2 1.68950+ 0 0.0     + 0 1.40230- 4 3.57000- 2 2.05190- 49749 2151  487
5.00000+ 2 1.68910+ 0 0.0     + 0 1.40200- 4 3.57000- 2 2.05190- 49749 2151  488
6.00000+ 2 1.68880+ 0 0.0     + 0 1.40170- 4 3.57000- 2 2.05190- 49749 2151  489
8.00000+ 2 1.68820+ 0 0.0     + 0 1.40120- 4 3.57000- 2 2.05190- 49749 2151  490
1.00000+ 3 1.68750+ 0 0.0     + 0 1.40060- 4 3.57000- 2 2.05190- 49749 2151  491
1.50000+ 3 1.68590+ 0 0.0     + 0 1.39930- 4 3.57000- 2 2.05190- 49749 2151  492
2.00000+ 3 1.68420+ 0 0.0     + 0 1.39790- 4 3.57000- 2 2.05190- 49749 2151  493
3.00000+ 3 1.68100+ 0 0.0     + 0 1.39520- 4 3.57000- 2 2.05190- 49749 2151  494
4.00000+ 3 1.67770+ 0 0.0     + 0 1.39250- 4 3.57000- 2 2.05190- 49749 2151  495
5.00000+ 3 1.67450+ 0 0.0     + 0 1.38980- 4 3.57000- 2 2.05190- 49749 2151  496
6.00000+ 3 1.67120+ 0 0.0     + 0 1.38710- 4 3.57000- 2 2.05190- 49749 2151  497
8.00000+ 3 1.66480+ 0 0.0     + 0 1.38180- 4 3.57000- 2 2.05190- 49749 2151  498
1.00000+ 4 1.65840+ 0 0.0     + 0 1.37640- 4 3.57000- 2 2.05190- 49749 2151  499
1.50000+ 4 1.64240+ 0 0.0     + 0 1.36320- 4 3.57000- 2 2.05190- 49749 2151  500
2.00000+ 4 1.62660+ 0 0.0     + 0 1.35010- 4 3.57000- 2 2.05190- 49749 2151  501
3.00000+ 4 1.59540+ 0 0.0     + 0 1.32420- 4 3.57000- 2 2.05190- 49749 2151  502
6.00000+ 0 0.0     + 0           2           0         138          229749 2151  503
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0.0     + 0 0.0     + 0 0.0     + 0 1.00000+ 0 0.0     + 0 1.00000+ 09749 2151  504
6.00000+ 1 1.43050+ 0 0.0     + 0 1.18730- 4 3.57000- 2 2.05190- 49749 2151  505
8.00000+ 1 1.43040+ 0 0.0     + 0 1.18730- 4 3.57000- 2 2.05190- 49749 2151  506
1.00000+ 2 1.43040+ 0 0.0     + 0 1.18720- 4 3.57000- 2 2.05190- 49749 2151  507
1.50000+ 2 1.43020+ 0 0.0     + 0 1.18710- 4 3.57000- 2 2.05190- 49749 2151  508
2.00000+ 2 1.43010+ 0 0.0     + 0 1.18700- 4 3.57000- 2 2.05190- 49749 2151  509
3.00000+ 2 1.42980+ 0 0.0     + 0 1.18680- 4 3.57000- 2 2.05190- 49749 2151  510
4.00000+ 2 1.42960+ 0 0.0     + 0 1.18650- 4 3.57000- 2 2.05190- 49749 2151  511
5.00000+ 2 1.42930+ 0 0.0     + 0 1.18630- 4 3.57000- 2 2.05190- 49749 2151  512
6.00000+ 2 1.42900+ 0 0.0     + 0 1.18610- 4 3.57000- 2 2.05190- 49749 2151  513
8.00000+ 2 1.42840+ 0 0.0     + 0 1.18560- 4 3.57000- 2 2.05190- 49749 2151  514
1.00000+ 3 1.42790+ 0 0.0     + 0 1.18510- 4 3.57000- 2 2.05190- 49749 2151  515
1.50000+ 3 1.42650+ 0 0.0     + 0 1.18400- 4 3.57000- 2 2.05190- 49749 2151  516
2.00000+ 3 1.42510+ 0 0.0     + 0 1.18290- 4 3.57000- 2 2.05190- 49749 2151  517
3.00000+ 3 1.42240+ 0 0.0     + 0 1.18060- 4 3.57000- 2 2.05190- 49749 2151  518
4.00000+ 3 1.41960+ 0 0.0     + 0 1.17830- 4 3.57000- 2 2.05190- 49749 2151  519
5.00000+ 3 1.41690+ 0 0.0     + 0 1.17600- 4 3.57000- 2 2.05190- 49749 2151  520
6.00000+ 3 1.41410+ 0 0.0     + 0 1.17370- 4 3.57000- 2 2.05190- 49749 2151  521
8.00000+ 3 1.40870+ 0 0.0     + 0 1.16920- 4 3.57000- 2 2.05190- 49749 2151  522
1.00000+ 4 1.40320+ 0 0.0     + 0 1.16470- 4 3.57000- 2 2.05190- 49749 2151  523
1.50000+ 4 1.38970+ 0 0.0     + 0 1.15350- 4 3.57000- 2 2.05190- 49749 2151  524
2.00000+ 4 1.37630+ 0 0.0     + 0 1.14240- 4 3.57000- 2 2.05190- 49749 2151  525
3.00000+ 4 1.35000+ 0 0.0     + 0 1.12050- 4 3.57000- 2 2.05190- 49749 2151  526
                                                                      9749 2   0  527
                                                                      9749 0   0  528
9.72490+ 4 2.46935+ 2           0          99           0           09749 3   1  529
0.0     + 0 0.0     + 0           0           0           2         1329749 3   1  530
        13          2           132           5           0           09749 3   1  531
1.00000- 5 0.0     + 0 2.53000- 2 0.0     + 0 8.83564+ 3 0.0     + 09749 3   1  532
9.12673+ 3 5.93213- 3 9.41782+ 3 1.16780- 2 1.00000+ 4 2.26553- 29749 3   1  533
1.12500+ 4 3.26381- 2 1.25000+ 4 4.15680- 2 1.50000+ 4 5.70208- 29749 3   1  534
1.75000+ 4 7.00860- 2 2.00000+ 4 8.14035- 2 2.50000+ 4 1.00316- 19749 3   1  535
3.00000+ 4 1.15769- 1 3.00000+ 4 1.40948+ 1 3.97604+ 4 1.39302+ 19749 3   1  536
4.19693+ 4 1.39002+ 1 5.00000+ 4 1.38036+ 1 8.00000+ 4 1.35095+ 19749 3   1  537
8.29345+ 4 1.34823+ 1 9.40795+ 4 1.33788+ 1 1.00000+ 5 1.33234+ 19749 3   1  538
1.38258+ 5 1.29546+ 1 1.50000+ 5 1.28380+ 1 1.56431+ 5 1.27737+ 19749 3   1  539
2.00000+ 5 1.23330+ 1 2.05429+ 5 1.22779+ 1 2.30229+ 5 1.20275+ 19749 3   1  540
2.84146+ 5 1.14961+ 1 3.00000+ 5 1.13452+ 1 3.14268+ 5 1.12114+ 19749 3   1  541
3.74310+ 5 1.06749+ 1 3.79129+ 5 1.06338+ 1 3.90776+ 5 1.05358+ 19749 3   1  542
4.00000+ 5 1.04595+ 1 4.11660+ 5 1.03646+ 1 4.23006+ 5 1.02741+ 19749 3   1  543
4.30637+ 5 1.02142+ 1 4.76823+ 5 9.86841+ 0 5.00000+ 5 9.70578+ 09749 3   1  544
5.21102+ 5 9.56395+ 0 6.00000+ 5 9.08553+ 0 7.00000+ 5 8.58715+ 09749 3   1  545
8.00000+ 5 8.19472+ 0 9.00000+ 5 7.89050+ 0 1.00000+ 6 7.65727+ 09749 3   1  546
1.10000+ 6 7.47968+ 0 1.20000+ 6 7.34546+ 0 1.30000+ 6 7.24510+ 09749 3   1  547
1.40000+ 6 7.17195+ 0 1.60000+ 6 7.08589+ 0 1.80000+ 6 7.05929+ 09749 3   1  548
2.00000+ 6 7.07512+ 0 2.50000+ 6 7.22951+ 0 3.00000+ 6 7.44772+ 09749 3   1  549
4.00000+ 6 7.75690+ 0 5.00000+ 6 7.78554+ 0 6.00000+ 6 7.53897+ 09749 3   1  550
6.23890+ 6 7.44122+ 0 6.42104+ 6 7.35051+ 0 6.60850+ 6 7.26090+ 09749 3   1  551
6.70427+ 6 7.21651+ 0 6.80143+ 6 7.17239+ 0 6.90000+ 6 7.12854+ 09749 3   1  552
7.00000+ 6 7.08495+ 0 7.23762+ 6 6.96777+ 0 7.35944+ 6 6.90991+ 09749 3   1  553
7.48331+ 6 6.85253+ 0 7.60926+ 6 6.79563+ 0 7.73734+ 6 6.73919+ 09749 3   1  554
7.80218+ 6 6.71116+ 0 7.86757+ 6 6.68323+ 0 7.93351+ 6 6.65542+ 09749 3   1  555
8.00000+ 6 6.62773+ 0 8.23907+ 6 6.53658+ 0 8.48528+ 6 6.44668+ 09749 3   1  556
8.61113+ 6 6.40219+ 0 8.73885+ 6 6.35801+ 0 8.86846+ 6 6.31414+ 09749 3   1  557
8.93399+ 6 6.29232+ 0 9.00000+ 6 6.27057+ 0 9.24021+ 6 6.21044+ 09749 3   1  558
9.48683+ 6 6.15088+ 0 9.61260+ 6 6.12132+ 0 9.74004+ 6 6.09190+ 09749 3   1  559
9.86916+ 6 6.06262+ 0 1.00000+ 7 6.03348+ 0 1.04664+ 7 5.97480+ 09749 3   1  560
1.07077+ 7 5.94567+ 0 1.09545+ 7 5.91669+ 0 1.12070+ 7 5.88785+ 09749 3   1  561
1.14653+ 7 5.85915+ 0 1.15967+ 7 5.84486+ 0 1.17296+ 7 5.83059+ 09749 3   1  562
1.18270+ 7 5.82026+ 0 1.18640+ 7 5.81637+ 0 1.19318+ 7 5.80926+ 09749 3   1  563
1.20000+ 7 5.80217+ 0 1.24715+ 7 5.80588+ 0 1.29615+ 7 5.80959+ 09749 3   1  564
1.32136+ 7 5.81144+ 0 1.34707+ 7 5.81330+ 0 1.37328+ 7 5.81515+ 09749 3   1  565
1.40000+ 7 5.81701+ 0 1.44752+ 7 5.85547+ 0 1.49666+ 7 5.89418+ 09749 3   1  566
1.52185+ 7 5.91363+ 0 1.54747+ 7 5.93315+ 0 1.57352+ 7 5.95274+ 09749 3   1  567
1.58670+ 7 5.96255+ 0 1.60000+ 7 5.97238+ 0 1.64782+ 7 6.01310+ 09749 3   1  568
1.67226+ 7 6.03356+ 0 1.69706+ 7 6.05409+ 0 1.72223+ 7 6.07469+ 09749 3   1  569
1.74777+ 7 6.09536+ 0 1.76068+ 7 6.10572+ 0 1.77369+ 7 6.11610+ 09749 3   1  570
1.78680+ 7 6.12650+ 0 1.80000+ 7 6.13691+ 0 1.80570+ 7 6.14109+ 09749 3   1  571
1.81141+ 7 6.14527+ 0 1.82290+ 7 6.15365+ 0 1.83446+ 7 6.16204+ 09749 3   1  572
1.84610+ 7 6.17045+ 0 1.84615+ 7 6.17048+ 0 1.88343+ 7 6.19387+ 09749 3   1  573
1.92151+ 7 6.21737+ 0 1.94084+ 7 6.22915+ 0 1.96036+ 7 6.24096+ 09749 3   1  574
1.98008+ 7 6.25279+ 0 1.99002+ 7 6.25871+ 0 2.00000+ 7 6.26464+ 09749 3   1  575
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                                                                                9749 3  0  576
9.72490+ 4 2.46935+ 2          0          0          0          09749 3  2  577
0.0    + 0 0.0    + 0          0          0          2        1229749 3  2  578
         3          2        122          5          0          09749 3  2  579
1.00000- 5 0.0    + 0 2.53000- 2 0.0    + 0 3.00000+ 4 0.0    + 09749 3  2  580
3.00000+ 4 1.20787+ 1 3.97604+ 4 1.20875+ 1 4.19693+ 4 1.20501+ 19749 3  2  581
5.00000+ 4 1.19358+ 1 8.00000+ 4 1.16215+ 1 8.29345+ 4 1.15909+ 19749 3  2  582
9.40795+ 4 1.13889+ 1 1.00000+ 5 1.13032+ 1 1.38258+ 5 1.07807+ 19749 3  2  583
1.50000+ 5 1.05904+ 1 1.56431+ 5 1.05037+ 1 2.00000+ 5 9.96716+ 09749 3  2  584
2.05429+ 5 9.90494+ 0 2.30229+ 5 9.61868+ 0 2.84146+ 5 9.06070+ 09749 3  2  585
3.00000+ 5 8.90669+ 0 3.14268+ 5 8.77110+ 0 3.74310+ 5 8.23179+ 09749 3  2  586
3.79129+ 5 8.19052+ 0 3.90776+ 5 8.09107+ 0 4.00000+ 5 8.00899+ 09749 3  2  587
4.11660+ 5 7.90386+ 0 4.23006+ 5 7.79989+ 0 4.30637+ 5 7.72725+ 09749 3  2  588
4.76823+ 5 7.27213+ 0 5.00000+ 5 7.05548+ 0 5.21102+ 5 6.86995+ 09749 3  2  589
6.00000+ 5 6.26950+ 0 7.00000+ 5 5.66000+ 0 8.00000+ 5 5.16442+ 09749 3  2  590
9.00000+ 5 4.74158+ 0 1.00000+ 6 4.39878+ 0 1.10000+ 6 4.12872+ 09749 3  2  591
1.20000+ 6 3.92581+ 0 1.30000+ 6 3.77799+ 0 1.40000+ 6 3.67759+ 09749 3  2  592
1.60000+ 6 3.58518+ 0 1.80000+ 6 3.60724+ 0 2.00000+ 6 3.70096+ 09749 3  2  593
2.50000+ 6 4.07982+ 0 3.00000+ 6 4.47470+ 0 4.00000+ 6 4.94599+ 09749 3  2  594
5.00000+ 6 4.95038+ 0 6.00000+ 6 4.65117+ 0 6.23890+ 6 4.55271+ 09749 3  2  595
6.42104+ 6 4.47411+ 0 6.60850+ 6 4.39021+ 0 6.70427+ 6 4.34619+ 09749 3  2  596
6.80143+ 6 4.30074+ 0 6.90000+ 6 4.25382+ 0 7.00000+ 6 4.20541+ 09749 3  2  597
7.23762+ 6 4.08932+ 0 7.35944+ 6 4.03147+ 0 7.48331+ 6 3.97375+ 09749 3  2  598
7.60926+ 6 3.91615+ 0 7.73734+ 6 3.85866+ 0 7.80218+ 6 3.82995+ 09749 3  2  599
7.86757+ 6 3.80127+ 0 7.93351+ 6 3.77261+ 0 8.00000+ 6 3.74397+ 09749 3  2  600
8.23907+ 6 3.64461+ 0 8.48528+ 6 3.54638+ 0 8.61113+ 6 3.49769+ 09749 3  2  601
8.73885+ 6 3.44927+ 0 8.86846+ 6 3.40112+ 0 8.93399+ 6 3.37715+ 09749 3  2  602
9.00000+ 6 3.35325+ 0 9.24021+ 6 3.28188+ 0 9.48683+ 6 3.21075+ 09749 3  2  603
9.61260+ 6 3.17526+ 0 9.74004+ 6 3.13981+ 0 9.86916+ 6 3.10443+ 09749 3  2  604
1.00000+ 7 3.06908+ 0 1.04664+ 7 2.99759+ 0 1.07077+ 7 2.96182+ 09749 3  2  605
1.09545+ 7 2.92604+ 0 1.12070+ 7 2.89023+ 0 1.14653+ 7 2.85440+ 09749 3  2  606
1.15967+ 7 2.83647+ 0 1.17296+ 7 2.81854+ 0 1.18270+ 7 2.80552+ 09749 3  2  607
1.18640+ 7 2.80101+ 0 1.19318+ 7 2.79279+ 0 1.20000+ 7 2.78458+ 09749 3  2  608
1.24715+ 7 2.77589+ 0 1.29615+ 7 2.76672+ 0 1.32136+ 7 2.76195+ 09749 3  2  609
1.34707+ 7 2.75705+ 0 1.37328+ 7 2.75201+ 0 1.40000+ 7 2.74684+ 09749 3  2  610
1.44752+ 7 2.76950+ 0 1.49666+ 7 2.79188+ 0 1.52185+ 7 2.80296+ 09749 3  2  611
1.54747+ 7 2.81396+ 0 1.57352+ 7 2.82488+ 0 1.58670+ 7 2.83031+ 09749 3  2  612
1.60000+ 7 2.83572+ 0 1.64782+ 7 2.86461+ 0 1.67226+ 7 2.87902+ 09749 3  2  613
1.69706+ 7 2.89341+ 0 1.72223+ 7 2.90778+ 0 1.74777+ 7 2.92213+ 09749 3  2  614
1.76068+ 7 2.92929+ 0 1.77369+ 7 2.93645+ 0 1.78680+ 7 2.94361+ 09749 3  2  615
1.80000+ 7 2.95076+ 0 1.80570+ 7 2.94828+ 0 1.81141+ 7 2.94578+ 09749 3  2  616
1.82290+ 7 2.94073+ 0 1.83446+ 7 2.93561+ 0 1.84610+ 7 2.93041+ 09749 3  2  617
1.84615+ 7 2.93045+ 0 1.88343+ 7 2.95857+ 0 1.92151+ 7 2.98690+ 09749 3  2  618
1.94084+ 7 3.00114+ 0 1.96036+ 7 3.01543+ 0 1.98008+ 7 3.02976+ 09749 3  2  619
1.99002+ 7 3.03695+ 0 2.00000+ 7 3.04414+ 0                      9749 3  2  620
                                                                 9749 3  0  621
9.72490+ 4 2.46935+ 2          0         99          0          09749 3  4  622
0.0    + 0-8.80000+ 3          0          0          1         579749 3  4  623
        57          3          0          0          0          09749 3  4  624
8.83564+ 3 0.0    + 0 1.00000+ 4 2.26553- 2 3.00000+ 4 1.15769- 19749 3  4  625
3.97604+ 4 1.36323- 1 4.19693+ 4 2.14567- 1 5.00000+ 4 4.42831- 19749 3  4  626
8.00000+ 4 8.83947- 1 8.29345+ 4 9.13569- 1 9.40795+ 4 1.13385+ 09749 3  4  627
1.00000+ 5 1.21462+ 0 1.38258+ 5 1.57545+ 0 1.50000+ 5 1.70257+ 09749 3  4  628
1.56431+ 5 1.74596+ 0 2.00000+ 5 1.94134+ 0 2.05429+ 5 1.95672+ 09749 3  4  629
2.30229+ 5 2.02832+ 0 2.84146+ 5 2.10078+ 0 3.00000+ 5 2.11309+ 09749 3  4  630
3.14268+ 5 2.12175+ 0 3.74310+ 5 2.14349+ 0 3.79129+ 5 2.14472+ 09749 3  4  631
3.90776+ 5 2.14873+ 0 4.00000+ 5 2.15736+ 0 4.11660+ 5 2.17119+ 09749 3  4  632
4.23006+ 5 2.18859+ 0 4.30637+ 5 2.20456+ 0 4.76823+ 5 2.33579+ 09749 3  4  633
5.00000+ 5 2.39931+ 0 5.21102+ 5 2.44971+ 0 6.00000+ 5 2.58565+ 09749 3  4  634
7.00000+ 5 2.68446+ 0 8.00000+ 5 2.72528+ 0 9.00000+ 5 2.65100+ 09749 3  4  635
1.00000+ 6 2.54179+ 0 1.10000+ 6 2.42165+ 0 1.20000+ 6 2.33096+ 09749 3  4  636
1.30000+ 6 2.25037+ 0 1.40000+ 6 2.18571+ 0 1.60000+ 6 2.03045+ 09749 3  4  637
1.80000+ 6 1.94643+ 0 2.00000+ 6 1.86344+ 0 2.50000+ 6 1.65480+ 09749 3  4  638
3.00000+ 6 1.49423+ 0 4.00000+ 6 1.35803+ 0 5.00000+ 6 1.33123+ 09749 3  4  639
6.00000+ 6 1.06680+ 0 6.23890+ 6 9.27834- 1 7.00000+ 6 2.89444- 19749 3  4  640
8.00000+ 6 4.87530- 2 9.00000+ 6 1.13239- 2 1.00000+ 7 3.39983- 39749 3  4  641
1.20000+ 7 5.23201- 4 1.40000+ 7 1.65642- 4 1.60000+ 7 5.81168- 59749 3  4  642
1.80000+ 7 5.44559- 5 1.84610+ 7 1.39774- 4 2.00000+ 7 9.84367- 59749 3  4  643
                                                                 9749 3  0  644
9.72490+ 4 2.46935+ 2          0         99          0          09749 3 16  645
0.0    + 0-6.21370+ 6          0          0          1         129749 3 16  646
        12          2          0          0          0          09749 3 16  647
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6.23890+ 6 0.0     + 0 7.00000+ 6 2.10000- 1 8.00000+ 6 2.35000- 19749 3 16  648
9.00000+ 6 2.36000- 1 1.00000+ 7 2.91000- 1 1.18270+ 7 3.44000- 19749 3 16  649
1.20000+ 7 3.47000- 1 1.40000+ 7 2.28000- 1 1.60000+ 7 6.46000- 29749 3 16  650
1.80000+ 7 1.31000- 2 1.84610+ 7 8.90000- 3 2.00000+ 7 2.40000- 39749 3 16  651
                                                                 9749 3  0  652
9.72490+ 4 2.46935+ 2           0          99           0           09749 3 17  653
0.0     + 0-1.17794+ 7           0           0           1           79749 3 17  654
         7           2           0           0           0           09749 3 17  655
1.18270+ 7 0.0     + 0 1.20000+ 7 7.00000- 5 1.40000+ 7 1.72000- 19749 3 17  656
1.60000+ 7 4.02000- 1 1.80000+ 7 5.03000- 1 1.84610+ 7 5.61000- 19749 3 17  657
2.00000+ 7 5.37000- 1                                            9749 3 17  658
                                                                 9749 3  0  659
9.72490+ 4 2.46935+ 2           0          99           0           09749 3 18  660
0.0     + 0 0.0     + 0           0           0           2          419749 3 18  661
         3           2          41           5           0           09749 3 18  662
1.00000- 5 0.0     + 0 2.53000- 2 0.0     + 0 3.00000+ 4 0.0     + 09749 3 18  663
3.00000+ 4 1.08000- 2 5.00000+ 4 7.94000- 3 8.00000+ 4 5.59000- 39749 3 18  664
1.00000+ 5 4.80000- 3 1.50000+ 5 3.70000- 3 2.00000+ 5 3.50000- 39749 3 18  665
3.00000+ 5 3.70000- 3 4.00000+ 5 5.00000- 3 5.00000+ 5 7.00000- 39749 3 18  666
6.00000+ 5 1.00000- 2 7.00000+ 5 3.06000- 2 8.00000+ 5 9.72000- 29749 3 18  667
9.00000+ 5 3.00000- 1 1.00000+ 6 5.30000- 1 1.10000+ 6 7.54000- 19749 3 18  668
1.20000+ 6 9.23000- 1 1.30000+ 6 1.06000+ 0 1.40000+ 6 1.16000+ 09749 3 18  669
1.60000+ 6 1.34000+ 0 1.80000+ 6 1.39000+ 0 2.00000+ 6 1.41000+ 09749 3 18  670
2.50000+ 6 1.43000+ 0 3.00000+ 6 1.44000+ 0 4.00000+ 6 1.44000+ 09749 3 18  671
5.00000+ 6 1.50000+ 0 6.00000+ 6 1.82000+ 0 6.23890+ 6 1.96000+ 09749 3 18  672
7.00000+ 6 2.38000+ 0 8.00000+ 6 2.60000+ 0 9.00000+ 6 2.67000+ 09749 3 18  673
1.00000+ 7 2.67000+ 0 1.18270+ 7 2.67000+ 0 1.20000+ 7 2.67000+ 09749 3 18  674
1.40000+ 7 2.67000+ 0 1.60000+ 7 2.67000+ 0 1.80000+ 7 2.67000+ 09749 3 18  675
1.84610+ 7 2.67000+ 0 2.00000+ 7 2.67000+ 0                      9749 3 18  676
                                                                 9749 3  0  677
9.72490+ 4 2.46935+ 2           0          99           0           09749 3 37  678
0.0     + 0-1.83871+ 7           0           0           1           29749 3 37  679
         2           2           0           0           0           09749 3 37  680
1.84615+ 7 0.0     + 0 2.00000+ 7 1.10000- 2                      9749 3 37  681
                                                                 9749 3  0  682
9.72490+ 4 2.46935+ 2           0           1           0           09749 3 51  683
0.0     + 0-8.80000+ 3           0           0           1          579749 3 51  684
        57           3           0           0           0           09749 3 51  685
8.83564+ 3 0.0     + 0 1.00000+ 4 2.26553- 2 3.00000+ 4 1.15769- 19749 3 51  686
3.97604+ 4 1.36323- 1 4.19693+ 4 1.35553- 1 5.00000+ 4 1.40911- 19749 3 51  687
8.00000+ 4 1.49892- 1 8.29345+ 4 1.50214- 1 9.40795+ 4 1.49200- 19749 3 51  688
1.00000+ 5 1.48361- 1 1.38258+ 5 1.43631- 1 1.50000+ 5 1.42138- 19749 3 51  689
1.56431+ 5 1.41434- 1 2.00000+ 5 1.38551- 1 2.05429+ 5 1.38408- 19749 3 51  690
2.30229+ 5 1.38234- 1 2.84146+ 5 1.39548- 1 3.00000+ 5 1.40227- 19749 3 51  691
3.14268+ 5 1.40881- 1 3.74310+ 5 1.44034- 1 3.79129+ 5 1.44295- 19749 3 51  692
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4.23006+ 5 1.39844- 1 4.30637+ 5 1.37685- 1 4.76823+ 5 1.25394- 19749 3 51  694
5.00000+ 5 1.20887- 1 5.21102+ 5 1.17606- 1 6.00000+ 5 1.09373- 19749 3 51  695
7.00000+ 5 1.02255- 1 8.00000+ 5 9.50664- 2 9.00000+ 5 8.46029- 29749 3 51  696
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1.30000+ 6 4.72689- 2 1.40000+ 6 4.06560- 2 1.60000+ 6 2.91121- 29749 3 51  698
1.80000+ 6 2.09927- 2 2.00000+ 6 1.47956- 2 2.50000+ 6 5.59049- 39749 3 51  699
3.00000+ 6 1.97771- 3 4.00000+ 6 2.44023- 4 5.00000+ 6 2.96096- 59749 3 51  700
6.00000+ 6 3.09790- 6 6.23890+ 6 1.69078- 6 7.00000+ 6 1.26238- 79749 3 51  701
8.00000+ 6 3.64563- 9 9.00000+ 6 1.62187-10 1.00000+ 7 1.01957-119749 3 51  702
1.20000+ 7 8.48010-14 1.40000+ 7 1.80802-15 1.60000+ 7 5.11800-179749 3 51  703
1.80000+ 7 4.46975-18 1.84610+ 7 6.75670-18 2.00000+ 7 8.48298-199749 3 51  704
                                                                 9749 3  0  705
9.72490+ 4 2.46935+ 2           0           2           0           09749 3 52  706
0.0     + 0-3.96000+ 4           0           0           1          549749 3 52  707
        54           3           0           0           0           09749 3 52  708
3.97604+ 4 0.0     + 0 4.19693+ 4 7.90142- 2 5.00000+ 4 1.62216- 19749 3 52  709
8.00000+ 4 2.96744- 1 8.29345+ 4 3.03756- 1 9.40795+ 4 3.14122- 19749 3 52  710
1.00000+ 5 3.18841- 1 1.38258+ 5 3.28962- 1 1.50000+ 5 3.26665- 19749 3 52  711
1.56431+ 5 3.24918- 1 2.00000+ 5 3.11633- 1 2.05429+ 5 3.10146- 19749 3 52  712
2.30229+ 5 3.02976- 1 2.84146+ 5 2.90840- 1 3.00000+ 5 2.88089- 19749 3 52  713
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3.90776+ 5 2.76428- 1 4.00000+ 5 2.73496- 1 4.11660+ 5 2.70212- 19749 3 52  715
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7.00000+ 5 1.77115- 1 8.00000+ 5 1.58625- 1 9.00000+ 5 1.36657- 19749 3 52  718
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1.80000+ 6 2.97631- 2 2.00000+ 6 2.07613- 2 2.50000+ 6 7.72017- 39749 3 52  721
3.00000+ 6 2.70955- 3 4.00000+ 6 3.34086- 4 5.00000+ 6 4.08466- 59749 3 52  722
6.00000+ 6 4.30247- 6 6.23890+ 6 2.35059- 6 7.00000+ 6 1.75940- 79749 3 52  723
8.00000+ 6 5.09756- 9 9.00000+ 6 2.27694-10 1.00000+ 7 1.43803-119749 3 52  724
1.20000+ 7 1.20594-13 1.40000+ 7 2.58521-15 1.60000+ 7 7.34890-179749 3 52  725
1.80000+ 7 6.44019-18 1.84610+ 7 9.74216-18 2.00000+ 7 1.22584-189749 3 52  726
                                                                  9749 3  0  727
9.72490+ 4 2.46935+ 2          0          3          0          09749 3 53  728
0.0    + 0-4.18000+ 4          0          0          1         539749 3 53  729
        53         3          0          0          0          09749 3 53  730
4.19693+ 4 0.0    + 0 5.00000+ 4 1.39703- 1 8.00000+ 4 4.37312- 19749 3 53  731
8.29345+ 4 4.59599- 1 9.40795+ 4 5.13830- 1 1.00000+ 5 5.40122- 19749 3 53  732
1.38258+ 5 6.46751- 1 1.50000+ 5 6.47850- 1 1.56431+ 5 6.53245- 19749 3 53  733
2.00000+ 5 6.72327- 1 2.05429+ 5 6.73324- 1 2.30229+ 5 6.67759- 19749 3 53  734
2.84146+ 5 6.55537- 1 3.00000+ 5 6.50246- 1 3.14268+ 5 6.45283- 19749 3 53  735
3.74310+ 5 6.21855- 1 3.79129+ 5 6.19907- 1 3.90776+ 5 6.15176- 19749 3 53  736
4.00000+ 5 6.10415- 1 4.11660+ 5 6.03785- 1 4.23006+ 5 5.96661- 19749 3 53  737
4.30637+ 5 5.91065- 1 4.76823+ 5 5.45115- 1 5.00000+ 5 5.20212- 19749 3 53  738
5.21102+ 5 4.98988- 1 6.00000+ 5 4.36012- 1 7.00000+ 5 3.80071- 19749 3 53  739
8.00000+ 5 3.35611- 1 9.00000+ 5 2.88026- 1 1.00000+ 6 2.44875- 19749 3 53  740
1.10000+ 6 2.06993- 1 1.20000+ 6 1.75834- 1 1.30000+ 6 1.49058- 19749 3 53  741
1.40000+ 6 1.26258- 1 1.60000+ 6 8.73878- 2 1.80000+ 6 6.05875- 29749 3 53  742
2.00000+ 6 4.08733- 2 2.50000+ 6 1.37756- 2 3.00000+ 6 4.39191- 39749 3 53  743
4.00000+ 6 4.63528- 4 5.00000+ 6 5.31338- 5 6.00000+ 6 5.74190- 69749 3 53  744
6.23890+ 6 3.16740- 6 7.00000+ 6 2.43539- 7 8.00000+ 6 7.19218- 99749 3 53  745
9.00000+ 6 3.20824-10 1.00000+ 7 2.01269-11 1.20000+ 7 1.69251-139749 3 53  746
1.40000+ 7 3.66676-15 1.60000+ 7 1.05475-16 1.80000+ 7 9.35108-189749 3 53  747
1.84610+ 7 1.41816-17 2.00000+ 7 1.79879-18                          9749 3 53  748
                                                                  9749 3  0  749
9.72490+ 4 2.46935+ 2          0          4          0          09749 3 54  750
0.0    + 0-8.26000+ 4          0          0          1         509749 3 54  751
        50         3          0          0          0          09749 3 54  752
8.29345+ 4 0.0    + 0 9.40795+ 4 1.56702- 1 1.00000+ 5 1.90513- 19749 3 54  753
1.38258+ 5 3.01606- 1 1.50000+ 5 3.12457- 1 1.56431+ 5 3.17387- 19749 3 54  754
2.00000+ 5 3.33108- 1 2.05429+ 5 3.33889- 1 2.30229+ 5 3.33795- 19749 3 54  755
2.84146+ 5 3.29029- 1 3.00000+ 5 3.27412- 1 3.14268+ 5 3.25884- 19749 3 54  756
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4.00000+ 5 3.16093- 1 4.11660+ 5 3.13550- 1 4.23006+ 5 3.10604- 19749 3 54  758
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8.00000+ 5 1.92634- 1 9.00000+ 5 1.64665- 1 1.00000+ 6 1.38682- 19749 3 54  761
1.10000+ 6 1.16003- 1 1.20000+ 6 9.76941- 2 1.30000+ 6 8.23648- 29749 3 54  762
1.40000+ 6 6.96571- 2 1.60000+ 6 4.86131- 2 1.80000+ 6 3.44304- 29749 3 54  763
2.00000+ 6 2.39491- 2 2.50000+ 6 8.88149- 3 3.00000+ 6 3.12102- 39749 3 54  764
4.00000+ 6 3.89163- 4 5.00000+ 6 4.82169- 5 6.00000+ 6 5.12195- 69749 3 54  765
6.23890+ 6 2.80147- 6 7.00000+ 6 2.10288- 7 8.00000+ 6 6.12087- 99749 3 54  766
9.00000+ 6 2.75178-10 1.00000+ 7 1.75033-11 1.20000+ 7 1.48390-139749 3 54  767
1.40000+ 7 3.20464-15 1.60000+ 7 9.16933-17 1.80000+ 7 8.07948-189749 3 54  768
1.84610+ 7 1.22357-17 2.00000+ 7 1.54505-18                          9749 3 54  769
                                                                  9749 3  0  770
9.72490+ 4 2.46935+ 2          0          5          0          09749 3 55  771
0.0    + 0-9.37000+ 4          0          0          1         499749 3 55  772
        49         3          0          0          0          09749 3 55  773
9.40795+ 4 0.0    + 0 1.00000+ 5 1.67862- 2 1.38258+ 5 1.54504- 19749 3 55  774
1.50000+ 5 1.80464- 1 1.56431+ 5 1.94864- 1 2.00000+ 5 2.61784- 19749 3 55  775
2.05429+ 5 2.67586- 1 2.30229+ 5 2.83695- 1 2.84146+ 5 3.07105- 19749 3 55  776
3.00000+ 5 3.10672- 1 3.14268+ 5 3.13150- 1 3.74310+ 5 3.18413- 19749 3 55  777
3.79129+ 5 3.18520- 1 3.90776+ 5 3.18794- 1 4.00000+ 5 3.18715- 19749 3 55  778
4.11660+ 5 3.18312- 1 4.23006+ 5 3.17759- 1 4.30637+ 5 3.17154- 19749 3 55  779
4.76823+ 5 3.07783- 1 5.00000+ 5 3.00787- 1 5.21102+ 5 2.94345- 19749 3 55  780
6.00000+ 5 2.74455- 1 7.00000+ 5 2.55613- 1 8.00000+ 5 2.38108- 19749 3 55  781
9.00000+ 5 2.13336- 1 1.00000+ 6 1.87709- 1 1.10000+ 6 1.63032- 19749 3 55  782
1.20000+ 6 1.41449- 1 1.30000+ 6 1.21905- 1 1.40000+ 6 1.04602- 19749 3 55  783
1.60000+ 6 7.37310- 2 1.80000+ 6 5.17352- 2 2.00000+ 6 3.52071- 29749 3 55  784
2.50000+ 6 1.20825- 2 3.00000+ 6 3.92477- 3 4.00000+ 6 4.31177- 49749 3 55  785
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7.00000+ 6 2.44172- 7 8.00000+ 6 7.27835- 9 9.00000+ 6 3.27759-109749 3 55  787
1.00000+ 7 2.07491-11 1.20000+ 7 1.77085-13 1.40000+ 7 3.88866-159749 3 55  788
1.60000+ 7 1.13276-16 1.80000+ 7 1.01453-17 1.84610+ 7 1.54180-179749 3 55  789
2.00000+ 7 1.96819-18                                                9749 3 55  790
                                                                  9749 3  0  791
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9.72490+ 4 2.46935+ 2           0           6           0           09749 3 56  792
0.0     + 0-1.37700+ 5           0           0           1          479749 3 56  793
         47           3           0           0           0           09749 3 56  794
1.38258+ 5 0.0     + 0 1.50000+ 5 9.29913- 2 1.56431+ 5 1.14111- 19749 3 56  795
2.00000+ 5 1.89876- 1 2.05429+ 5 1.95321- 1 2.30229+ 5 2.11521- 19749 3 56  796
2.84146+ 5 2.30615- 1 3.00000+ 5 2.33752- 1 3.14268+ 5 2.35948- 19749 3 56  797
3.74310+ 5 2.41956- 1 3.79129+ 5 2.42284- 1 3.90776+ 5 2.42983- 19749 3 56  798
4.00000+ 5 2.42906- 1 4.11660+ 5 2.42927- 1 4.23006+ 5 2.42758- 19749 3 56  799
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8.00000+ 5 1.76371- 1 9.00000+ 5 1.52834- 1 1.00000+ 6 1.30092- 19749 3 56  802
1.10000+ 6 1.09749- 1 1.20000+ 6 9.30703- 2 1.30000+ 6 7.89183- 29749 3 56  803
1.40000+ 6 6.70678- 2 1.60000+ 6 4.71647- 2 1.80000+ 6 3.36069- 29749 3 56  804
2.00000+ 6 2.34998- 2 2.50000+ 6 8.82893- 3 3.00000+ 6 3.14420- 39749 3 56  805
4.00000+ 6 4.02943- 4 5.00000+ 6 5.11008- 5 6.00000+ 6 5.50526- 69749 3 56  806
6.23890+ 6 3.01690- 6 7.00000+ 6 2.27497- 7 8.00000+ 6 6.66447- 99749 3 56  807
9.00000+ 6 3.02269-10 1.00000+ 7 1.94091-11 1.20000+ 7 1.66784-139749 3 56  808
1.40000+ 7 3.63582-15 1.60000+ 7 1.04943-16 1.80000+ 7 9.31654-189749 3 56  809
1.84610+ 7 1.41311-17 2.00000+ 7 1.79316-18                          9749 3 56  810
                                                                     9749 3  0  811
9.72490+ 4 2.46935+ 2           0           7           0           09749 3 57  812
0.0     + 0-1.55800+ 5           0           0           1          459749 3 57  813
         45           3           0           0           0           09749 3 57  814
1.56431+ 5 0.0     + 0 2.00000+ 5 3.40576- 2 2.05429+ 5 3.80413- 29749 3 57  815
2.30229+ 5 5.20586- 2 2.84146+ 5 7.40267- 2 3.00000+ 5 7.83374- 29749 3 57  816
3.14268+ 5 8.19437- 2 3.74310+ 5 9.39330- 2 3.79129+ 5 9.46363- 29749 3 57  817
3.90776+ 5 9.64760- 2 4.00000+ 5 9.78927- 2 4.11660+ 5 9.96725- 29749 3 57  818
4.23006+ 5 1.01361- 1 4.30637+ 5 1.02477- 1 4.76823+ 5 1.08014- 19749 3 57  819
5.00000+ 5 1.09941- 1 5.21102+ 5 1.11516- 1 6.00000+ 5 1.17263- 19749 3 57  820
7.00000+ 5 1.23468- 1 8.00000+ 5 1.26603- 1 9.00000+ 5 1.22193- 19749 3 57  821
1.00000+ 6 1.13908- 1 1.10000+ 6 1.03489- 1 1.20000+ 6 9.29928- 29749 3 57  822
1.30000+ 6 8.23853- 2 1.40000+ 6 7.22561- 2 1.60000+ 6 5.25677- 29749 3 57  823
1.80000+ 6 3.76884- 2 2.00000+ 6 2.60667- 2 2.50000+ 6 9.24536- 39749 3 57  824
3.00000+ 6 3.10048- 3 4.00000+ 6 3.62437- 4 5.00000+ 6 4.53856- 59749 3 57  825
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8.00000+ 6 6.91561- 9 9.00000+ 6 3.15260-10 1.00000+ 7 2.01837-119749 3 57  827
1.20000+ 7 1.75455-13 1.40000+ 7 3.91485-15 1.60000+ 7 1.15706-169749 3 57  828
1.80000+ 7 1.04880-17 1.84610+ 7 1.59783-17 2.00000+ 7 2.05562-189749 3 57  829
                                                                     9749 3  0  830
9.72490+ 4 2.46935+ 2           0           8           0           09749 3 58  831
0.0     + 0-2.04600+ 5           0           0           1          439749 3 58  832
         43           3           0           0           0           09749 3 58  833
2.05429+ 5 0.0     + 0 2.30229+ 5 3.82824- 2 2.84146+ 5 7.14241- 29749 3 58  834
3.00000+ 5 7.79375- 2 3.14268+ 5 8.29479- 2 3.74310+ 5 9.91853- 29749 3 58  835
3.79129+ 5 1.00243- 1 3.90776+ 5 1.02673- 1 4.00000+ 5 1.04484- 19749 3 58  836
4.11660+ 5 1.06612- 1 4.23006+ 5 1.08561- 1 4.30637+ 5 1.09789- 19749 3 58  837
4.76823+ 5 1.14788- 1 5.00000+ 5 1.15751- 1 5.21102+ 5 1.16803- 19749 3 58  838
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1.60000+ 7 1.12606-16 1.80000+ 7 1.00951-17 1.84610+ 7 1.53435-179749 3 58  847
2.00000+ 7 1.95963-18                                                9749 3 58  848
                                                                     9749 3  0  849
9.72490+ 4 2.46935+ 2           0           9           0           09749 3 59  850
0.0     + 0-2.29300+ 5           0           0           1          429749 3 59  851
         42           3           0           0           0           09749 3 59  852
2.30229+ 5 0.0     + 0 2.84146+ 5 2.65727- 3 3.00000+ 5 3.57617- 39749 3 59  853
3.14268+ 5 4.52002- 3 3.74310+ 5 8.97304- 3 3.79129+ 5 9.27858- 39749 3 59  854
3.90776+ 5 1.01936- 2 4.00000+ 5 1.09598- 2 4.11660+ 5 1.19729- 29749 3 59  855
4.23006+ 5 1.29971- 2 4.30637+ 5 1.37065- 2 4.76823+ 5 1.82885- 29749 3 59  856
5.00000+ 5 2.06947- 2 5.21102+ 5 2.29469- 2 6.00000+ 5 3.16043- 29749 3 59  857
7.00000+ 5 4.17443- 2 8.00000+ 5 4.97000- 2 9.00000+ 5 5.32454- 29749 3 59  858
1.00000+ 6 5.35720- 2 1.10000+ 6 5.16035- 2 1.20000+ 6 4.85521- 29749 3 59  859
1.30000+ 6 4.46363- 2 1.40000+ 6 4.03492- 2 1.60000+ 6 3.07245- 29749 3 59  860
1.80000+ 6 2.27640- 2 2.00000+ 6 1.61567- 2 2.50000+ 6 6.04877- 39749 3 59  861
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1.80000+ 7 1.04181-17 1.84610+ 7 1.59171-17 2.00000+ 7 2.06617-189749 3 59  866
                                                                 9749 3  0  867
9.72490+ 4 2.46935+ 2           0          10           0           09749 3 60  868
0.0    + 0-2.83000+ 5           0           0           1          419749 3 60  869
        41          3           0           0           0           09749 3 60  870
2.84146+ 5 0.0    + 0 3.00000+ 5 2.83776- 3 3.14268+ 5 5.29710- 39749 3 60  871
3.74310+ 5 1.55610- 2 3.79129+ 5 1.63025- 2 3.90776+ 5 1.80949- 29749 3 60  872
4.00000+ 5 1.94767- 2 4.11660+ 5 2.11946- 2 4.23006+ 5 2.28253- 29749 3 60  873
4.30637+ 5 2.39000- 2 4.76823+ 5 3.00183- 2 5.00000+ 5 3.26532- 29749 3 60  874
5.21102+ 5 3.50027- 2 6.00000+ 5 4.26374- 2 7.00000+ 5 4.94649- 29749 3 60  875
8.00000+ 5 5.30965- 2 9.00000+ 5 5.24033- 2 1.00000+ 6 4.94547- 29749 3 60  876
1.10000+ 6 4.53520- 2 1.20000+ 6 4.11656- 2 1.30000+ 6 3.69251- 29749 3 60  877
1.40000+ 6 3.29012- 2 1.60000+ 6 2.49159- 2 1.80000+ 6 1.87950- 29749 3 60  878
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4.00000+ 6 3.22771- 4 5.00000+ 6 4.47906- 5 6.00000+ 6 5.05890- 69749 3 60  880
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1.84610+ 7 1.58951-17 2.00000+ 7 2.04603-18                      9749 3 60  884
                                                                 9749 3  0  885
9.72490+ 4 2.46935+ 2           0          11           0           09749 3 61  886
0.0    + 0-3.13000+ 5           0           0           1          399749 3 61  887
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1.80000+ 7 9.98064-18 1.84610+ 7 1.52987-17 2.00000+ 7 2.00640-189749 3 61  901
                                                                 9749 3  0  902
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0.0    + 0-3.72800+ 5           0           0           1          389749 3 62  904
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1.84610+ 7 1.58160-17 2.00000+ 7 2.05442-18                      9749 3 62  918
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7.00000+ 6 6.63521- 8 8.00000+ 6 1.93481- 9 9.00000+ 6 8.50876-119749 3 63  932
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1.60000+ 7 2.58199-17 1.80000+ 7 2.25397-18 1.84610+ 7 3.40722-189749 3 63  934
2.00000+ 7 4.27993-19                                            9749 3 63  935
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7.00000+ 5 1.77501- 1 8.00000+ 5 1.69997- 1 9.00000+ 5 1.52890- 19749 3 64  943
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1.80000+ 7 6.34919-18 1.84610+ 7 9.60808-18 2.00000+ 7 1.21093-189749 3 64  951
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0.0     + 0-4.10000+ 5          0           0           1          349749 3 65  954
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6.00000+ 5 8.09070- 2 7.00000+ 5 8.90084- 2 8.00000+ 5 8.97764- 29749 3 65  958
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1.60000+ 6 3.97112- 2 1.80000+ 6 2.98540- 2 2.00000+ 6 2.14188- 29749 3 65  961
2.50000+ 6 7.85774- 3 3.00000+ 6 2.56271- 3 4.00000+ 6 2.65017- 49749 3 65  962
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1.60000+ 7 5.03238-17 1.80000+ 7 4.40216-18 1.84610+ 7 6.65729-189749 3 65  966
2.00000+ 7 8.37337-19                                                           9749 3 65  967
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1.80000+ 7 6.34081-18 1.84610+ 7 9.59582-18 2.00000+ 7 1.20957-189749 3 66  982
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4.00000+ 6 4.26697- 4 5.00000+ 6 4.72356- 5 6.00000+ 6 5.03757- 69749 3 67  993
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1.40000+ 7 3.16206-15 1.60000+ 7 9.03540-17 1.80000+ 7 7.97401-189749 3 67  996
1.84610+ 7 1.20805-17 2.00000+ 7 1.52786-18                                     9749 3 67  997
                                                                                9749 3  0  998
9.72490+ 4 2.46935+ 2           0          18           0           09749 3 68  999
0.0     + 0-4.74900+ 5          0           0           1          319749 3 68 1000
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6.00000+ 5 1.28564- 1 7.00000+ 5 1.74365- 1 8.00000+ 5 1.84876- 19749 3 68 1003
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2.00000+ 7 1.77134-18                                                 9749 3 68 1012
                                                                      9749 3  0 1013
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0.0    + 0-5.19000+ 5          0           0          1          299749 3 91 1015
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1.84610+ 7 1.39774- 4 2.00000+ 7 9.84367- 5                           9749 3 91 1026
                                                                      9749 3  0 1027
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0.0    + 0 0.0    + 0          0           0          2          589749 3102 1029
         3          2         58           5          0           09749 3102 1030
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2.00000+ 7 6.85299-10                                                 9749 3102 1050
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1.84610+ 7 9.34381- 1 2.00000+ 7 9.43292- 1                           9749 3251 1074
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                                                                      9749 0  0 1076
9.72490+ 4 2.46935+ 2          1           1          0           09749 4  2 1077
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1.00000+ 0 2.69976- 3 3.27993- 6-1.62126-18 0.0    + 0 0.0    + 09749 4  2 1079
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 1.08111- 7 6.56755- 9                                            9749 4  2 1297
 0.0    + 0 9.00000# 6          0          0          20        09749 4  2 1298
 8.19005- 1 6.95834- 1 6.11597- 1 5.35974- 1 4.46371- 1 3.52072- 19749 4  2 1299
 2.60495- 1 1.80754- 1 1.41529- 1 1.12642- 1 6.77548- 2 2.85718- 29749 4  2 1300
 1.03846- 2 3.42476- 3 8.21967- 4 1.69676- 4 3.73069- 5 4.07008- 69749 4  2 1301
 6.23239- 7 4.65872- 8                                            9749 4  2 1302
 0.0    + 0 1.00000+ 7          0          0          20        09749 4  2 1303
 8.21137- 1 6.88536- 1 6.04399- 1 5.35212- 1 4.57760- 1 3.76367- 19749 4  2 1304
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 2.27390- 2 8.06394- 3 2.16702- 3 5.05858- 4 1.23213- 4 2.01849- 59749 4  2 1306
 3.25766- 6 5.60246- 7                                            9749 4  2 1307
 0.0    + 0 1.20000+ 7          0          0          20        09749 4  2 1308
 8.45577- 1 7.06185- 1 6.08419- 1 5.35671- 1 4.73077- 1 4.11607- 19749 4  2 1309
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 6.25830- 2 2.67742- 2 9.43082- 3 2.89405- 3 8.37348- 4 1.85331- 49749 4  2 1311
 4.04449- 5 8.10490- 6                                            9749 4  2 1312
 0.0    + 0 1.40000+ 7          0          0          20        09749 4  2 1313
 8.79719- 1 7.53618- 1 6.49538- 1 5.70664- 1 5.06431- 1 4.49476- 19749 4  2 1314
 3.96950- 1 3.48105- 1 3.03440- 1 2.64020- 1 2.26243- 1 1.73800- 19749 4  2 1315
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 2.91983- 4 6.65958- 5                                            9749 4  2 1317
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 4.43981- 1 3.95078- 1 3.49123- 1 3.05576- 1 2.62563- 1 2.14610- 19749 4  2 1320
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 1.22402- 3 3.35213- 4                                            9749 4  2 1322
 0.0    + 0 1.80000+ 7          0          0          20        09749 4  2 1323
 9.30493- 1 8.45720- 1 7.59751- 1 6.81010- 1 6.08775- 1 5.46026- 19749 4  2 1324
 4.88203- 1 4.36252- 1 3.86705- 1 3.39881- 1 2.92900- 1 2.44863- 19749 4  2 1325
 1.91319- 1 1.35027- 1 8.52753- 2 4.80119- 2 2.38001- 2 1.01987- 29749 4  2 1326
 3.81354- 3 1.23202- 3                                            9749 4  2 1327
 0.0    + 0 1.84610+ 7          0          0          20        09749 4  2 1328
 9.30493- 1 8.45720- 1 7.59751- 1 6.81010- 1 6.08775- 1 5.46026- 19749 4  2 1329
 4.88203- 1 4.36252- 1 3.86705- 1 3.39881- 1 2.92900- 1 2.44863- 19749 4  2 1330
 1.91319- 1 1.35027- 1 8.52753- 2 4.80119- 2 2.38001- 2 1.01987- 29749 4  2 1331
 3.81354- 3 1.23202- 3                                            9749 4  2 1332
 0.0    + 0 2.00000+ 7          0          0          20        09749 4  2 1333
 9.30493- 1 8.45720- 1 7.59751- 1 6.81010- 1 6.08775- 1 5.46026- 19749 4  2 1334
 4.88203- 1 4.36252- 1 3.86705- 1 3.39881- 1 2.92900- 1 2.44863- 19749 4  2 1335
 1.91319- 1 1.35027- 1 8.52753- 2 4.80119- 2 2.38001- 2 1.01987- 29749 4  2 1336
 3.81354- 3 1.23202- 3                                            9749 4  2 1337
                                                                  9749 4  0 1338
 9.72490+ 4 2.46935+ 2          0          2          0         09749 4 16 1339
 0.0    + 0 2.46935+ 2          0          1          0         09749 4 16 1340
 0.0    + 0 0.0    + 0          0          0          1         29749 4 16 1341
          2          2          0          0          0         09749 4 16 1342
 0.0    + 0 6.23890+ 6          0          0          1         29749 4 16 1343
          2          2          0          0          0         09749 4 16 1344
-1.00000+ 0 5.00000- 1 1.00000+ 0 5.00000- 1                      9749 4 16 1345
 0.0    + 0 2.00000+ 7          0          0          1         29749 4 16 1346
          2          2          0          0          0         09749 4 16 1347
-1.00000+ 0 5.00000- 1 1.00000+ 0 5.00000- 1                      9749 4 16 1348
                                                                  9749 4  0 1349
 9.72490+ 4 2.46935+ 2          0          2          0         09749 4 17 1350
 0.0    + 0 2.46935+ 2          0          1          0         09749 4 17 1351
 0.0    + 0 0.0    + 0          0          0          1         29749 4 17 1352
          2          2          0          0          0         09749 4 17 1353
 0.0    + 0 1.18270+ 7          0          0          1         29749 4 17 1354
          2          2          0          0          0         09749 4 17 1355
-1.00000+ 0 5.00000- 1 1.00000+ 0 5.00000- 1                      9749 4 17 1356
 0.0    + 0 2.00000+ 7          0          0          1         29749 4 17 1357
          2          2          0          0          0         09749 4 17 1358
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                                                                  9749 4  0 1360
 9.72490+ 4 2.46935+ 2          0          2          0         09749 4 18 1361
 0.0    + 0 2.46935+ 2          0          1          0         09749 4 18 1362
 0.0    + 0 0.0    + 0          0          0          1         29749 4 18 1363
          2          2          0          0          0         09749 4 18 1364
 0.0    + 0 1.00000- 5          0          0          1         29749 4 18 1365
          2          2          0          0          0         09749 4 18 1366
-1.00000+ 0 5.00000- 1 1.00000+ 0 5.00000- 1                      9749 4 18 1367
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           2           2           0           0           0           09749 4 18 1369
-1.00000+ 0 5.00000- 1 1.00000+ 0 5.00000- 1                            9749 4 18 1370
                                                                        9749 4  0 1371
 9.72490+ 4 2.46935+ 2           0           2           0           09749 4 37 1372
 0.0     + 0 2.46935+ 2           0           1           0           09749 4 37 1373
 0.0     + 0 0.0     + 0           0           0           1           29749 4 37 1374
           2           2           0           0           0           09749 4 37 1375
 0.0     + 0 1.84615+ 7           0           0           1           29749 4 37 1376
           2           2           0           0           0           09749 4 37 1377
-1.00000+ 0 5.00000- 1 1.00000+ 0 5.00000- 1                            9749 4 37 1378
 0.0     + 0 2.00000+ 7           0           0           1           29749 4 37 1379
           2           2           0           0           0           09749 4 37 1380
-1.00000+ 0 5.00000- 1 1.00000+ 0 5.00000- 1                            9749 4 37 1381
                                                                        9749 4  0 1382
 9.72490+ 4 2.46935+ 2           0           1           0           09749 4 51 1383
 0.0     + 0 2.46935+ 2           0           2           0           09749 4 51 1384
 0.0     + 0 0.0     + 0           0           0           1           49749 4 51 1385
           4           2           0           0           0           09749 4 51 1386
 0.0     + 0 8.83564+ 3           0           0           2           09749 4 51 1387
 0.0     + 0 0.0     + 0                                               9749 4 51 1388
 0.0     + 0 8.00000+ 6           0           0          18           09749 4 51 1389
 0.0     + 0 3.91448- 2 0.0     + 0-4.51565- 3 0.0     + 0-1.95190- 39749 4 51 1390
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 0.0     + 0 4.57541- 7 0.0     + 0-2.89411- 8 0.0     + 0-4.95554-119749 4 51 1392
 0.0     + 0 1.40000+ 7           0           0          20           09749 4 51 1393
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 0.0     + 0-5.39043- 7                                                 9749 4 51 1402
                                                                        9749 4  0 1403
 9.72490+ 4 2.46935+ 2           0           1           0           09749 4 52 1404
 0.0     + 0 2.46935+ 2           0           2           0           09749 4 52 1405
 0.0     + 0 0.0     + 0           0           0           1           49749 4 52 1406
           4           2           0           0           0           09749 4 52 1407
 0.0     + 0 3.97604+ 4           0           0           2           09749 4 52 1408
 0.0     + 0 0.0     + 0                                               9749 4 52 1409
 0.0     + 0 8.00000+ 6           0           0          18           09749 4 52 1410
 0.0     + 0 3.94047- 2 0.0     + 0 2.30640- 3 0.0     + 0 6.05141- 49749 4 52 1411
 0.0     + 0-1.83242- 5 0.0     + 0-6.10934- 5 0.0     + 0 1.34361- 69749 4 52 1412
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 0.0     + 0 9.32649- 2 0.0     + 0 1.14505- 2 0.0     + 0 9.74896- 49749 4 52 1420
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 0.0     + 0-5.62872- 5 0.0     + 0-2.46189- 5 0.0     + 0-6.38363- 69749 4 52 1422
 0.0     + 0-9.23100- 7                                                 9749 4 52 1423
                                                                        9749 4  0 1424
 9.72490+ 4 2.46935+ 2           0           1           0           09749 4 53 1425
 0.0     + 0 2.46935+ 2           0           2           0           09749 4 53 1426
 0.0     + 0 0.0     + 0           0           0           1           49749 4 53 1427
           4           2           0           0           0           09749 4 53 1428
 0.0     + 0 4.19693+ 4           0           0           2           09749 4 53 1429
 0.0     + 0 0.0     + 0                                               9749 4 53 1430
 0.0     + 0 8.00000+ 6           0           0          18           09749 4 53 1431
 0.0     + 0 2.78114- 2 0.0     + 0 3.53386- 3 0.0     + 0 3.37033- 49749 4 53 1432
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 0.0     + 0-3.30051- 6 0.0     + 0-4.03005- 8 0.0     + 0-6.35101- 99749 4 53 1434
 0.0     + 0 1.40000+ 7           0           0          20           09749 4 53 1435
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 0.0     + 0-1.39498- 7                                                 9749 4 53 1439
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0.0     + 0 5.85160- 4 0.0    + 0 2.89258- 5 0.0    + 0-3.62271- 59749 4 53 1442
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0.0     + 0-2.96282- 6                                             9749 4 53 1444
                                                                   9749 4  0 1445
9.72490+ 4 2.46935+ 2          0          1           0          09749 4 54 1446
0.0     + 0 2.46935+ 2          0          2           0          09749 4 54 1447
0.0     + 0 0.0    + 0          0          0           1          49749 4 54 1448
          4          2          0          0           0          09749 4 54 1449
0.0     + 0 8.29345+ 4          0          0           2          09749 4 54 1450
0.0     + 0 0.0    + 0                                             9749 4 54 1451
0.0     + 0 8.00000+ 6          0          0          18          09749 4 54 1452
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0.0     + 0 1.33049- 6                                             9749 4 54 1465
                                                                   9749 4  0 1466
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0.0     + 0 0.0    + 0          0          0           1          49749 4 55 1469
          4          2          0          0           0          09749 4 55 1470
0.0     + 0 9.40795+ 4          0          0           2          09749 4 55 1471
0.0     + 0 0.0    + 0                                             9749 4 55 1472
0.0     + 0 8.00000+ 6          0          0          18          09749 4 55 1473
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0.0     + 0 2.00000+ 7          0          0          20          09749 4 55 1482
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0.0     + 0 1.17276- 6                                             9749 4 55 1486
                                                                   9749 4  0 1487
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0.0     + 0 8.00000+ 6          0          0          18          09749 4 56 1494
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0.0     + 0 4.26031- 2 0.0    + 0 3.96973- 3 0.0    + 0 1.30132- 39749 4 56 1499
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0.0     + 0-4.11102- 9                                             9749 4 56 1502
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                                                                   9749 4  0 1508
9.72490+ 4 2.46935+ 2          0          1           0          09749 4 57 1509
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0.0     + 0 0.0    + 0          0          0           1          49749 4 57 1511
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         4          2          0          0          0          09749 4 57 1512
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0.0    + 0 2.12702- 5 0.0    + 0 2.13440- 6 0.0    + 0 1.07572- 79749 4 57 1522
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0.0    + 0 2.00000+ 7          0          0         20          09749 4 57 1524
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0.0    + 0-8.21014- 4 0.0    + 0-1.84521- 4 0.0    + 0 2.54827- 59749 4 57 1526
0.0    + 0 4.66235- 5 0.0    + 0 2.20878- 5 0.0    + 0 4.67360- 69749 4 57 1527
0.0    + 0 2.88212- 7                                            9749 4 57 1528
                                                                 9749 4  0 1529
9.72490+ 4 2.46935+ 2          0          1          0          09749 4 58 1530
0.0    + 0 2.46935+ 2          0          2          0          09749 4 58 1531
0.0    + 0 0.0    + 0          0          0          1          49749 4 58 1532
         4          2          0          0          0          09749 4 58 1533
0.0    + 0 2.05429+ 5          0          0          2          09749 4 58 1534
0.0    + 0 0.0    + 0                                            9749 4 58 1535
0.0    + 0 8.00000+ 6          0          0         18          09749 4 58 1536
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0.0    + 0 1.40000+ 7          0          0         20          09749 4 58 1540
0.0    + 0 2.47966- 2 0.0    + 0-1.83341- 4 0.0    + 0-8.84910- 49749 4 58 1541
0.0    + 0-6.79096- 4 0.0    + 0-2.75764- 4 0.0    + 0-9.51382- 59749 4 58 1542
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0.0    + 0-6.32504- 7                                            9749 4 58 1549
                                                                 9749 4  0 1550
9.72490+ 4 2.46935+ 2          0          1          0          09749 4 59 1551
0.0    + 0 2.46935+ 2          0          2          0          09749 4 59 1552
0.0    + 0 0.0    + 0          0          0          1          49749 4 59 1553
         4          2          0          0          0          09749 4 59 1554
0.0    + 0 2.30229+ 5          0          0          2          09749 4 59 1555
0.0    + 0 0.0    + 0                                            9749 4 59 1556
0.0    + 0 8.00000+ 6          0          0         18          09749 4 59 1557
0.0    + 0-2.05574- 2 0.0    + 0-4.17292- 3 0.0    + 0 5.31826- 49749 4 59 1558
0.0    + 0 3.77570- 4 0.0    + 0-1.58642- 5 0.0    + 0-2.43125- 59749 4 59 1559
0.0    + 0-1.53571- 6 0.0    + 0-1.83522- 8 0.0    + 0-2.17639- 99749 4 59 1560
0.0    + 0 1.40000+ 7          0          0         20          09749 4 59 1561
0.0    + 0-9.05001- 3 0.0    + 0-5.23133- 3 0.0    + 0-9.00876- 49749 4 59 1562
0.0    + 0 2.84629- 4 0.0    + 0 1.95056- 4 0.0    + 0 2.01111- 59749 4 59 1563
0.0    + 0-1.31771- 5 0.0    + 0-3.33316- 6 0.0    + 0-3.66574- 79749 4 59 1564
0.0    + 0-3.39887- 8                                            9749 4 59 1565
0.0    + 0 2.00000+ 7          0          0         20          09749 4 59 1566
0.0    + 0 3.90975- 3 0.0    + 0-5.75616- 3 0.0    + 0-1.60849- 39749 4 59 1567
0.0    + 0-2.02461- 4 0.0    + 0 1.96060- 4 0.0    + 0 1.16706- 49749 4 59 1568
0.0    + 0 2.40881- 5 0.0    + 0-5.99666- 6 0.0    + 0-4.26528- 69749 4 59 1569
0.0    + 0-9.23315- 7                                            9749 4 59 1570
                                                                 9749 4  0 1571
9.72490+ 4 2.46935+ 2          0          1          0          09749 4 60 1572
0.0    + 0 2.46935+ 2          0          2          0          09749 4 60 1573
0.0    + 0 0.0    + 0          0          0          1          49749 4 60 1574
         4          2          0          0          0          09749 4 60 1575
0.0    + 0 2.84146+ 5          0          0          2          09749 4 60 1576
0.0    + 0 0.0    + 0                                            9749 4 60 1577
0.0    + 0 8.00000+ 6          0          0         18          09749 4 60 1578
0.0    + 0-4.61412- 3 0.0    + 0-4.04811- 3 0.0    + 0-7.69163- 49749 4 60 1579
0.0    + 0 8.34135- 5 0.0    + 0 8.40606- 5 0.0    + 0 2.48011- 59749 4 60 1580
0.0    + 0 7.04097- 7 0.0    + 0 2.40420- 8 0.0    + 0 3.75893-109749 4 60 1581
0.0    + 0 1.40000+ 7          0          0         20          09749 4 60 1582
0.0    + 0 7.33009- 3 0.0    + 0-3.65763- 3 0.0    + 0-1.65784- 39749 4 60 1583
```

```
0.0     + 0-3.89757- 4 0.0     + 0 3.86131- 5 0.0     + 0 7.84184- 59749 4 60 1584
0.0     + 0 3.44432- 5 0.0     + 0 4.77838- 6 0.0     + 0 5.26913- 79749 4 60 1585
0.0     + 0 2.30518- 8                                                 9749 4 60 1586
0.0     + 0 2.00000+ 7           0           0          20           09749 4 60 1587
0.0     + 0 2.19866- 2 0.0     + 0-3.56567- 3 0.0     + 0-1.60987- 39749 4 60 1588
0.0     + 0-8.06721- 4 0.0     + 0-1.72591- 4 0.0     + 0 3.32650- 59749 4 60 1589
0.0     + 0 5.57196- 5 0.0     + 0 3.01446- 5 0.0     + 0 8.39441- 69749 4 60 1590
0.0     + 0 1.49868- 6                                                 9749 4 60 1591
                                                                       9749 4  0 1592
9.72490+ 4 2.46935+ 2           0           1           0           09749 4 61 1593
0.0     + 0 2.46935+ 2           0           2           0           09749 4 61 1594
0.0     + 0 0.0    + 0           0           0           1           49749 4 61 1595
          4          2           0           0           0           09749 4 61 1596
0.0     + 0 3.14268+ 5           0           0           2           09749 4 61 1597
0.0     + 0 0.0    + 0                                                 9749 4 61 1598
0.0     + 0 8.00000+ 6           0           0          18           09749 4 61 1599
0.0     + 0-3.11991- 2 0.0     + 0-4.78172- 4 0.0     + 0 1.18508- 39749 4 61 1600
0.0     + 0-9.78810- 5 0.0     + 0-8.22035- 5 0.0     + 0 2.04951- 59749 4 61 1601
0.0     + 0 1.84267- 6 0.0     + 0 1.72297- 8 0.0     + 0 3.79124- 99749 4 61 1602
0.0     + 0 1.40000+ 7           0           0          20           09749 4 61 1603
0.0     + 0-2.27002- 2 0.0     + 0-4.23194- 3 0.0     + 0 5.26241- 49749 4 61 1604
0.0     + 0 4.48117- 4 0.0     + 0-2.01116- 5 0.0     + 0-5.51010- 59749 4 61 1605
0.0     + 0-6.16007- 7 0.0     + 0 2.30856- 6 0.0     + 0 3.70711- 79749 4 61 1606
0.0     + 0 6.01317- 8                                                 9749 4 61 1607
0.0     + 0 2.00000+ 7           0           0          20           09749 4 61 1608
0.0     + 0-1.20413- 2 0.0     + 0-5.99416- 3 0.0     + 0-5.99573- 49749 4 61 1609
0.0     + 0 4.29406- 4 0.0     + 0 2.16475- 4 0.0     + 0-9.06270- 69749 4 61 1610
0.0     + 0-3.63768- 5 0.0     + 0-9.24276- 6 0.0     + 0 8.24811- 79749 4 61 1611
0.0     + 0 8.46936- 7                                                 9749 4 61 1612
                                                                       9749 4  0 1613
9.72490+ 4 2.46935+ 2           0           1           0           09749 4 62 1614
0.0     + 0 2.46935+ 2           0           2           0           09749 4 62 1615
0.0     + 0 0.0    + 0           0           0           1           49749 4 62 1616
          4          2           0           0           0           09749 4 62 1617
0.0     + 0 3.74310+ 5           0           0           2           09749 4 62 1618
0.0     + 0 0.0    + 0                                                 9749 4 62 1619
0.0     + 0 8.00000+ 6           0           0          18           09749 4 62 1620
0.0     + 0-1.91920- 2 0.0     + 0-3.46759- 3 0.0     + 0 3.42490- 49749 4 62 1621
0.0     + 0 2.24954- 4 0.0     + 0 8.14934- 6 0.0     + 0-1.66929- 59749 4 62 1622
0.0     + 0-9.44649- 7 0.0     + 0-2.19047- 8 0.0     + 0-3.76422-109749 4 62 1623
0.0     + 0 1.40000+ 7           0           0          20           09749 4 62 1624
0.0     + 0-8.82494- 3 0.0     + 0-5.20745- 3 0.0     + 0-8.85734- 49749 4 62 1625
0.0     + 0 2.64317- 4 0.0     + 0 1.73739- 4 0.0     + 0 1.52147- 59749 4 62 1626
0.0     + 0-2.03705- 5 0.0     + 0-4.54625- 6 0.0     + 0-5.15641- 79749 4 62 1627
0.0     + 0-2.59078- 8                                                 9749 4 62 1628
0.0     + 0 2.00000+ 7           0           0          20           09749 4 62 1629
0.0     + 0 3.78450- 3 0.0     + 0-5.73295- 3 0.0     + 0-1.61063- 39749 4 62 1630
0.0     + 0-2.03054- 4 0.0     + 0 1.91850- 4 0.0     + 0 1.11050- 49749 4 62 1631
0.0     + 0 1.57179- 5 0.0     + 0-1.28091- 5 0.0     + 0-6.89004- 69749 4 62 1632
0.0     + 0-1.56416- 6                                                 9749 4 62 1633
                                                                       9749 4  0 1634
9.72490+ 4 2.46935+ 2           0           1           0           09749 4 63 1635
0.0     + 0 2.46935+ 2           0           2           0           09749 4 63 1636
0.0     + 0 0.0    + 0           0           0           1           49749 4 63 1637
          4          2           0           0           0           09749 4 63 1638
0.0     + 0 3.79129+ 5           0           0           2           09749 4 63 1639
0.0     + 0 0.0    + 0                                                 9749 4 63 1640
0.0     + 0 8.00000+ 6           0           0          18           09749 4 63 1641
0.0     + 0 4.01230- 2 0.0     + 0-1.22785- 2 0.0     + 0-4.54153- 39749 4 63 1642
0.0     + 0 4.17692- 4 0.0     + 0 4.83044- 4 0.0     + 0 7.71632- 69749 4 63 1643
0.0     + 0-1.85554- 6 0.0     + 0-7.66767- 9 0.0     + 0-6.75759- 99749 4 63 1644
0.0     + 0 1.40000+ 7           0           0          20           09749 4 63 1645
0.0     + 0 8.00900- 2 0.0     + 0-1.69961- 3 0.0     + 0-7.45451- 39749 4 63 1646
0.0     + 0-2.52267- 3 0.0     + 0 1.96701- 4 0.0     + 0 4.10372- 49749 4 63 1647
0.0     + 0 7.47064- 5 0.0     + 0 1.48093- 6 0.0     + 0-5.35379- 79749 4 63 1648
0.0     + 0-1.91800- 7                                                 9749 4 63 1649
0.0     + 0 2.00000+ 7           0           0          20           09749 4 63 1650
0.0     + 0 1.06518- 1 0.0     + 0 1.06772- 2 0.0     + 0-5.67118- 39749 4 63 1651
0.0     + 0-4.63011- 3 0.0     + 0-1.46062- 3 0.0     + 0 1.32020- 49749 4 63 1652
0.0     + 0 3.25989- 4 0.0     + 0 1.19459- 4 0.0     + 0 1.62583- 59749 4 63 1653
0.0     + 0-1.52096- 6                                                 9749 4 63 1654
                                                                       9749 4  0 1655
```

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9.72490+ 4 2.46935+ 2          0          1          0          09749 4 64 1656
0.0    + 0 2.46935+ 2          0          2          0          09749 4 64 1657
0.0    + 0 0.0    + 0          0          0          1          49749 4 64 1658
         4          2          0          0          0          09749 4 64 1659
0.0    + 0 3.90776+ 5          0          0          2          09749 4 64 1660
0.0    + 0 0.0    + 0                                             9749 4 64 1661
0.0    + 0 8.00000+ 6          0          0         18          09749 4 64 1662
0.0    + 0 4.22569- 2 0.0    + 0 2.34920- 3 0.0    + 0 7.32978- 49749 4 64 1663
0.0    + 0-1.43781- 4 0.0    + 0-9.55335- 5 0.0    + 0-4.74223- 59749 4 64 1664
0.0    + 0-3.42344- 6 0.0    + 0-3.79544- 8 0.0    + 0-6.76705- 99749 4 64 1665
0.0    + 0 1.40000+ 7          0          0         20          09749 4 64 1666
0.0    + 0 6.94491- 2 0.0    + 0 5.11415- 3 0.0    + 0 7.73395- 49749 4 64 1667
0.0    + 0 4.09441- 4 0.0    + 0-7.34281- 5 0.0    + 0-8.88639- 59749 4 64 1668
0.0    + 0-4.63133- 5 0.0    + 0-1.09409- 5 0.0    + 0-1.24312- 69749 4 64 1669
0.0    + 0-1.83932- 7                                             9749 4 64 1670
0.0    + 0 2.00000+ 7          0          0         20          09749 4 64 1671
0.0    + 0 9.25114- 2 0.0    + 0 1.11472- 2 0.0    + 0 9.01379- 49749 4 64 1672
0.0    + 0 4.86622- 4 0.0    + 0 2.44900- 4 0.0    + 0-4.04086- 59749 4 64 1673
0.0    + 0-7.28013- 5 0.0    + 0-3.72192- 5 0.0    + 0-1.29380- 59749 4 64 1674
0.0    + 0-3.86519- 6                                             9749 4 64 1675
                                                                  9749 4  0 1676
9.72490+ 4 2.46935+ 2          0          1          0          09749 4 65 1677
0.0    + 0 2.46935+ 2          0          2          0          09749 4 65 1678
0.0    + 0 0.0    + 0          0          0          1          49749 4 65 1679
         4          2          0          0          0          09749 4 65 1680
0.0    + 0 4.11660+ 5          0          0          2          09749 4 65 1681
0.0    + 0 0.0    + 0                                             9749 4 65 1682
0.0    + 0 8.00000+ 6          0          0         18          09749 4 65 1683
0.0    + 0 4.16513- 2 0.0    + 0-5.30374- 3 0.0    + 0-2.20843- 39749 4 65 1684
0.0    + 0-5.27985- 4 0.0    + 0-1.97114- 4 0.0    + 0 2.13190- 59749 4 65 1685
0.0    + 0 2.65647- 6 0.0    + 0 2.31460- 8 0.0    + 0 6.72217- 99749 4 65 1686
0.0    + 0 1.40000+ 7          0          0         20          09749 4 65 1687
0.0    + 0 7.63424- 2 0.0    + 0 1.55051- 3 0.0    + 0-3.49023- 39749 4 65 1688
0.0    + 0-1.26023- 3 0.0    + 0-3.68163- 4 0.0    + 0-1.65734- 49749 4 65 1689
0.0    + 0-1.08495- 5 0.0    + 0 5.13316- 6 0.0    + 0 9.16514- 79749 4 65 1690
0.0    + 0 1.89824- 7                                             9749 4 65 1691
0.0    + 0 2.00000+ 7          0          0         20          09749 4 65 1692
0.0    + 0 1.01447- 1 0.0    + 0 1.12137- 2 0.0    + 0-2.55665- 39749 4 65 1693
0.0    + 0-2.16516- 3 0.0    + 0-7.61066- 4 0.0    + 0-2.61067- 49749 4 65 1694
0.0    + 0-1.29134- 4 0.0    + 0-3.61383- 5 0.0    + 0-7.77792- 79749 4 65 1695
0.0    + 0 2.80751- 6                                             9749 4 65 1696
                                                                  9749 4  0 1697
9.72490+ 4 2.46935+ 2          0          1          0          09749 4 66 1698
0.0    + 0 2.46935+ 2          0          2          0          09749 4 66 1699
0.0    + 0 0.0    + 0          0          0          1          49749 4 66 1700
         4          2          0          0          0          09749 4 66 1701
0.0    + 0 4.23006+ 5          0          0          2          09749 4 66 1702
0.0    + 0 0.0    + 0                                             9749 4 66 1703
0.0    + 0 8.00000+ 6          0          0         18          09749 4 66 1704
0.0    + 0 4.21762- 2 0.0    + 0 2.34306- 3 0.0    + 0 7.30874- 49749 4 66 1705
0.0    + 0-1.44584- 4 0.0    + 0-9.51608- 5 0.0    + 0-4.75096- 59749 4 66 1706
0.0    + 0-3.33989- 6 0.0    + 0-3.70681- 8 0.0    + 0-6.57679- 99749 4 66 1707
0.0    + 0 1.40000+ 7          0          0         20          09749 4 66 1708
0.0    + 0 6.93664- 2 0.0    + 0 5.09842- 3 0.0    + 0 7.73255- 49749 4 66 1709
0.0    + 0 4.08226- 4 0.0    + 0-7.42754- 5 0.0    + 0-8.87467- 59749 4 66 1710
0.0    + 0-4.63077- 5 0.0    + 0-1.08416- 5 0.0    + 0-1.23111- 69749 4 66 1711
0.0    + 0-1.81195- 7                                             9749 4 66 1712
0.0    + 0 2.00000+ 7          0          0         20          09749 4 66 1713
0.0    + 0 9.24478- 2 0.0    + 0 1.11252- 2 0.0    + 0 8.98857- 49749 4 66 1714
0.0    + 0 4.86726- 4 0.0    + 0 2.44037- 4 0.0    + 0-4.08940- 59749 4 66 1715
0.0    + 0-7.27474- 5 0.0    + 0-3.71546- 5 0.0    + 0-1.28869- 59749 4 66 1716
0.0    + 0-3.84497- 6                                             9749 4 66 1717
                                                                  9749 4  0 1718
9.72490+ 4 2.46935+ 2          0          1          0          09749 4 67 1719
0.0    + 0 2.46935+ 2          0          2          0          09749 4 67 1720
0.0    + 0 0.0    + 0          0          0          1          49749 4 67 1721
         4          2          0          0          0          09749 4 67 1722
0.0    + 0 4.30637+ 5          0          0          2          09749 4 67 1723
0.0    + 0 0.0    + 0                                             9749 4 67 1724
0.0    + 0 8.00000+ 6          0          0         18          09749 4 67 1725
0.0    + 0 3.84098- 2 0.0    + 0 6.10570- 3 0.0    + 0 1.99695- 39749 4 67 1726
0.0    + 0 5.99692- 4 0.0    + 0 2.03597- 4 0.0    + 0 5.41321- 59749 4 67 1727
```

```
0.0     + 0 3.32628- 6 0.0     + 0 4.02799- 8 0.0     + 0 5.90319- 99749 4 67 1728
0.0     + 0 1.40000+ 7           0           0          20           09749 4 67 1729
0.0     + 0 5.82871- 2 0.0     + 0 6.41616- 3 0.0     + 0 2.74754- 39749 4 67 1730
0.0     + 0 1.08143- 3 0.0     + 0 3.90526- 4 0.0     + 0 1.72960- 49749 4 67 1731
0.0     + 0 6.25054- 5 0.0     + 0 1.19896- 5 0.0     + 0 1.24285- 69749 4 67 1732
0.0     + 0 1.57205- 7                                                9749 4 67 1733
0.0     + 0 2.00000+ 7           0           0          20           09749 4 67 1734
0.0     + 0 7.89905- 2 0.0     + 0 9.22206- 3 0.0     + 0 2.63231- 39749 4 67 1735
0.0     + 0 1.57536- 3 0.0     + 0 6.54849- 4 0.0     + 0 2.63172- 49749 4 67 1736
0.0     + 0 1.31971- 4 0.0     + 0 5.73193- 5 0.0     + 0 1.68195- 59749 4 67 1737
0.0     + 0 3.85685- 6                                                9749 4 67 1738
                                                                      9749 4  0 1739
9.72490+ 4 2.46935+ 2           0           1           0           09749 4 68 1740
0.0     + 0 2.46935+ 2           0           2           0           09749 4 68 1741
0.0     + 0 0.0     + 0           0           0           1           49749 4 68 1742
          4         2           0           0           0           09749 4 68 1743
0.0     + 0 4.76823+ 5           0           0           2           09749 4 68 1744
0.0     + 0 0.0     + 0                                               9749 4 68 1745
0.0     + 0 8.00000+ 6           0           0          18           09749 4 68 1746
0.0     + 0 2.73873- 2 0.0     + 0 3.47386- 3 0.0     + 0 3.12507- 49749 4 68 1747
0.0     + 0-7.86865- 5 0.0     + 0-8.68348- 5 0.0     + 0-3.73219- 59749 4 68 1748
0.0     + 0-2.38608- 6 0.0     + 0-2.93115- 8 0.0     + 0-4.39308- 99749 4 68 1749
0.0     + 0 1.40000+ 7           0           0          20           09749 4 68 1750
0.0     + 0 4.23631- 2 0.0     + 0 3.88900- 3 0.0     + 0 1.27504- 39749 4 68 1751
0.0     + 0 9.96790- 5 0.0     + 0-4.51281- 5 0.0     + 0-5.97234- 59749 4 68 1752
0.0     + 0-3.64174- 5 0.0     + 0-8.15941- 6 0.0     + 0-8.97948- 79749 4 68 1753
0.0     + 0-1.14544- 7                                                9749 4 68 1754
0.0     + 0 2.00000+ 7           0           0          20           09749 4 68 1755
0.0     + 0 6.09918- 2 0.0     + 0 4.96554- 3 0.0     + 0 1.61572- 39749 4 68 1756
0.0     + 0 5.68823- 4 0.0     + 0 2.46306- 5 0.0     + 0-3.58220- 59749 4 68 1757
0.0     + 0-3.57388- 5 0.0     + 0-2.75754- 5 0.0     + 0-1.07652- 59749 4 68 1758
0.0     + 0-2.73725- 6                                                9749 4 68 1759
                                                                      9749 4  0 1760
9.72490+ 4 2.46935+ 2           0           2           0           09749 4 91 1761
0.0     + 0 2.46935+ 2           0           1           0           09749 4 91 1762
0.0     + 0 0.0     + 0           0           0           1           29749 4 91 1763
          2         2           0           0           0           09749 4 91 1764
0.0     + 0 5.21102+ 5           0           0           1           29749 4 91 1765
          2         2           0           0           0           09749 4 91 1766
-1.00000+ 0 5.00000- 1 1.00000+ 0 5.00000- 1                          9749 4 91 1767
0.0     + 0 2.00000+ 7           0           0           1           29749 4 91 1768
          2         2           0           0           0           09749 4 91 1769
-1.00000+ 0 5.00000- 1 1.00000+ 0 5.00000- 1                          9749 4 91 1770
                                                                      9749 4  0 1771
                                                                      9749 0  0 1772
9.72490+ 4 2.46935+ 2           0           0           2           09749 5 16 1773
6.23890+ 6 0.0     + 0           0           9           1           29749 5 16 1774
          2         2           0           0           0           09749 5 16 1775
6.23890+ 6 5.00000- 1 2.00000+ 7 5.00000- 1                           9749 5 16 1776
0.0     + 0 0.0     + 0           0           0           1           89749 5 16 1777
          8         2           0           0           0           09749 5 16 1778
6.23890+ 6 4.74373+ 5 8.00000+ 6 5.43997+ 5 1.00000+ 7 6.13249+ 59749 5 16 1779
1.20000+ 7 6.75229+ 5 1.40000+ 7 7.31837+ 5 1.60000+ 7 7.84268+ 59749 5 16 1780
1.80000+ 7 8.33328+ 5 2.00000+ 7 8.79594+ 5                           9749 5 16 1781
6.23890+ 6 0.0     + 0           0           9           1           29749 5 16 1782
          2         2           0           0           0           09749 5 16 1783
6.23890+ 6 5.00000- 1 2.00000+ 7 5.00000- 1                           9749 5 16 1784
0.0     + 0 0.0     + 0           0           0           1           89749 5 16 1785
          8         2           0           0           0           09749 5 16 1786
6.23890+ 6 4.18935+ 5 8.00000+ 6 4.18935+ 5 1.00000+ 7 4.18935+ 59749 5 16 1787
1.20000+ 7 4.35972+ 5 1.40000+ 7 5.16497+ 5 1.60000+ 7 5.86182+ 59749 5 16 1788
1.80000+ 7 6.48436+ 5 2.00000+ 7 7.05227+ 5                           9749 5 16 1789
                                                                      9749 5  0 1790
9.72490+ 4 2.46935+ 2           0           0           3           09749 5 17 1791
1.18271+ 7 0.0     + 0           0           9           1           29749 5 17 1792
          2         2           0           0           0           09749 5 17 1793
1.18271+ 7 3.33333- 1 2.00000+ 7 3.33333- 1                           9749 5 17 1794
0.0     + 0 0.0     + 0           0           0           1           69749 5 17 1795
          6         2           0           0           0           09749 5 17 1796
1.18271+ 7 6.70104+ 5 1.20000+ 7 6.75229+ 5 1.40000+ 7 7.31837+ 59749 5 17 1797
1.60000+ 7 7.84268+ 5 1.80000+ 7 8.33328+ 5 2.00000+ 7 8.79594+ 59749 5 17 1798
1.18271+ 7 0.0     + 0           0           9           1           29749 5 17 1799
```

```
          2           2           0           0           0           09749 5 17 1800
 1.18271+ 7 3.33333- 1 2.00000+ 7 3.33333- 1                            9749 5 17 1801
 0.0    + 0 0.0    + 0           0           0           1           69749 5 17 1802
          6           2           0           0           0           09749 5 17 1803
 1.18271+ 7 4.87650+ 5 1.20000+ 7 4.90157+ 5 1.40000+ 7 5.32544+ 59749 5 17 1804
 1.60000+ 7 5.90021+ 5 1.80000+ 7 6.49299+ 5 2.00000+ 7 7.05426+ 59749 5 17 1805
 1.18271+ 7 0.0    + 0           0           9           1           29749 5 17 1806
          2           2           0           0           0           09749 5 17 1807
 1.18271+ 7 3.33333- 1 2.00000+ 7 3.33333- 1                            9749 5 17 1808
 0.0    + 0 0.0    + 0           0           0           1           69749 5 17 1809
          6           2           0           0           0           09749 5 17 1810
 1.18271+ 7 4.21560+ 5 1.20000+ 7 4.21560+ 5 1.40000+ 7 4.21560+ 59749 5 17 1811
 1.60000+ 7 4.21560+ 5 1.80000+ 7 4.21560+ 5 2.00000+ 7 4.47472+ 59749 5 17 1812
                                                                        9749 5  0 1813
 9.72480+ 4 2.46935+ 2           0           0           1           09749 5 18 1814
-2.00000+ 7 0.0    + 0           0           7           1           29749 5 18 1815
          2           2           0           0           0           09749 5 18 1816
 1.00000- 5 1.00000+ 0 2.00000+ 7 1.00000+ 0                            9749 5 18 1817
 0.0    + 0 0.0    + 0           0           0           1           29749 5 18 1818
          2           2           0           0           0           09749 5 18 1819
 1.00000- 5 1.40000+ 6 2.00000+ 7 1.40000+ 6                            9749 5 18 1820
                                                                        9749 5  0 1821
 9.72490+ 4 2.46935+ 2           0           0           4           09749 5 37 1822
 1.84615+ 7 0.0    + 0           0           9           1           29749 5 37 1823
          2           2           0           0           0           09749 5 37 1824
 1.84615+ 7 2.50000- 1 2.00000+ 7 2.50000- 1                            9749 5 37 1825
 0.0    + 0 0.0    + 0           0           0           1           29749 5 37 1826
          2           2           0           0           0           09749 5 37 1827
 1.84615+ 7 8.44234+ 5 2.00000+ 7 8.79594+ 5                            9749 5 37 1828
 1.84615+ 7 0.0    + 0           0           9           1           29749 5 37 1829
          2           2           0           0           0           09749 5 37 1830
 1.84615+ 7 2.50000- 1 2.00000+ 7 2.50000- 1                            9749 5 37 1831
 0.0    + 0 0.0    + 0           0           0           1           29749 5 37 1832
          2           2           0           0           0           09749 5 37 1833
 1.84615+ 7 7.11496+ 5 2.00000+ 7 7.30364+ 5                            9749 5 37 1834
 1.84615+ 7 0.0    + 0           0           9           1           29749 5 37 1835
          2           2           0           0           0           09749 5 37 1836
 1.84615+ 7 2.50000- 1 2.00000+ 7 2.50000- 1                            9749 5 37 1837
 0.0    + 0 0.0    + 0           0           0           1           29749 5 37 1838
          2           2           0           0           0           09749 5 37 1839
 1.84615+ 7 5.16535+ 5 2.00000+ 7 5.26839+ 5                            9749 5 37 1840
 1.84615+ 7 0.0    + 0           0           9           1           29749 5 37 1841
          2           2           0           0           0           09749 5 37 1842
 1.84615+ 7 2.50000- 1 2.00000+ 7 2.50000- 1                            9749 5 37 1843
 0.0    + 0 0.0    + 0           0           0           1           29749 5 37 1844
          2           2           0           0           0           09749 5 37 1845
 1.84615+ 7 4.21061+ 5 2.00000+ 7 4.21061+ 5                            9749 5 37 1846
                                                                        9749 5  0 1847
 9.72490+ 4 2.46935+ 2           0           0           1           09749 5 91 1848
 5.21100+ 5 0.0    + 0           0           9           1           29749 5 91 1849
          2           2           0           0           0           09749 5 91 1850
 5.21100+ 5 1.00000+ 0 2.00000+ 7 1.00000+ 0                            9749 5 91 1851
 0.0    + 0 0.0    + 0           0           0           1          119749 5 91 1852
         11           2           0           0           0           09749 5 91 1853
 5.21100+ 5 4.16671+ 5 2.00000+ 6 4.16671+ 5 4.00000+ 6 4.16671+ 59749 5 91 1854
 6.00000+ 6 4.64090+ 5 8.00000+ 6 5.43997+ 5 1.00000+ 7 6.13249+ 59749 5 91 1855
 1.20000+ 7 6.75229+ 5 1.40000+ 7 7.31837+ 5 1.60000+ 7 7.84268+ 59749 5 91 1856
 1.80000+ 7 8.33328+ 5 2.00000+ 7 8.79594+ 5                            9749 5 91 1857
                                                                        9749 5  0 1858
                                                                        9749 0  0 1859
                                                                           0 0  0 1860
                                                                          -1 0  0    0
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  CF-249  JENDL-3   12/3/85                                          0          0
 9.82490+ 4 2.46935+ 2          1          1          0          09849 1451     1
 0.0     + 0 0.0     + 0        0          0          0          09849 1451     2
 0.0     + 0 0.0     + 0        0          0        103         519849 1451     3
 98-CF-249 JAERI       EVAL-MAR85 Y.KIKUCHI AND T.NAKAGAWA         9849 1451     4
 JAERI-M85-            DIST-                                       9849 1451     5
HISTORY                                                            9849 1451     6
85-03 NEW EVALUATION FOR JENDL-3 WAS MADE BY Y.KIKUCHI AND         9849 1451     7
      T.NAKAGAWA (JAERI).  DETAILS ARE GIVEN IN REF. /1/.          9849 1451     8
                                                                   9849 1451     9
MF=1  GENERAL INFORMATION                                          9849 1451    10
  MT=451    COMMENTS AND DICTIONARY                                9849 1451    11
  MT=452    NUMBER OF NEUTRONS PER FISSION                         9849 1451    12
              SEMI-EMPIRICAL FORMULA BY HOWERTON /2/.              9849 1451    13
  MT=455    DELAYED NEUTRON DATA                                   9849 1451    14
              SEMI-EMPIRICAL FORMULA BY TUTTLE /3/.                9849 1451    15
                                                                   9849 1451    16
MF=2,MT=151  RESONANCE PARAMETERS                                  9849 1451    17
  RESOLVED RESONANCES FOR MLBW FORMULA : 1.0E-5 EV TO 70 EV        9849 1451    18
    RESONANCE ENERGIES, NEUTRON AND FISSION WIDTHS WERE TAKEN      9849 1451    19
    FROM THE EXPERIMENTAL DATA OF BENJAMIN+ /4/.  THE RADIATIVE    9849 1451    20
    WIDTH WAS ASSUMED TO BE 0.04 EV ACCORDING TO DABBS+ /5/.       9849 1451    21
    A NEGATIVE RESONANCE WAS ADDED SO AS TO REPRODUCE THE THERMAL  9849 1451    22
    CROSS SECTIONS. NO BACKGROUND CORRECTION WAS APPLIED.          9849 1451    23
                                                                   9849 1451    24
  UNRESOLVED RESONANCES : 70 EV - 30 KEV                           9849 1451    25
    OBTAIED FROM OPTICAL MODEL CALCULATION:                        9849 1451    26
        S1=3.15E-4  ,S2=0.83E-4  ,R=9.08 FM.                       9849 1451    27
    ESTIMATED FROM RESOLVED RESONANCES:                            9849 1451    28
        DOBS=1.16 EV, GAM-G=40 MILLI-EV ,SO=1.06E-4                9849 1451    29
    FISSION WIDTHS WERE ESTIMATED FROM THE CHANNEL THEORY OF       9849 1451    30
    FISSION /6/. SO-,S1- AND S2-VALUES WERE ADJUSTED SO AS TO      9849 1451    31
    REPRODUCE THE FISSION CROSS SECTION MEASURED BY DABBS+ /5/.    9849 1451    32
                                                                   9849 1451    33
  CALCULATED 2200 M/S CROSS SECTIONS AND RESONANCE INTEGRALS       9849 1451    34
                   2200 M/S VALUE            RES. INT.             9849 1451    35
      TOTAL        2176.7    B                 -                   9849 1451    36
      ELASTIC         6.22   B                 -                   9849 1451    37
      FISSION      1666      B                2217  B              9849 1451    38
      CAPTURE       504.5    B                 695  B              9849 1451    39
                                                                   9849 1451    40
MF=3  NEUTRON CROSS SECTIONS                                       9849 1451    41
  MT=1,2,4,51-63,91,102,251   SIG-T,SIG-EL,SIG-IN,SIG-C,MU-BAR     9849 1451    42
        CALCULATED WITH OPTICAL AND STATISTICAL MODELS.            9849 1451    43
        OPTICAL POTENTIAL PARAMETERS WERE OBTAINED BY FITTING THE  9849 1451    44
        TOTAL CROSS SECTION OF PHILLIPS AND HOWE /7/ FOR AM-241:   9849 1451    45
           V = 43.4 - 0.107*EN                        (MEV)         9849 1451    46
           WS= 6.95 - 0.339*EN + 0.0531*EN**2         (MEV)         9849 1451    47
           WV= 0              , VSO = 7.0             (MEV)         9849 1451    48
           R = RSO = 1.282    , RS = 1.29             (FM)          9849 1451    49
           A = ASO = 0.60     , B  = 0.5              (FM)          9849 1451    50
        STATISTICAL MODEL CALCULATION WITH CASTHY CODE /8/.        9849 1451    51
           COMPETING PROCESSES : FISSION,(N,2N),(N,3N),(N,4N).     9849 1451    52
           LEVEL FLUCTUATION CONSIDERED.                           9849 1451    53
        THE LEVEL SCHEME TAKEN FROM REF. /9/.                      9849 1451    54
                   NO.        ENERGY(KEV)   SPIN-PARITY            9849 1451    55
                  G.S.            0           9/2 -               9849 1451    56
                    1            62.47       11/2 -               9849 1451    57
                    2           136.2        13/2 -               9849 1451    58
                    3           145.0         5/2 +               9849 1451    59
                    4           188.0         7/2 +               9849 1451    60
                    5           219.0        15/2 -               9849 1451    61
                    6           243.1         9/2 +               9849 1451    62
                    7           379.5         7/2 +               9849 1451    63
                    8           416.6         1/2 +               9849 1451    64
                    9           437.5         9/2 +               9849 1451    65
                   10           440.0         3/2 +               9849 1451    66
                   11           443.0         7/2 +               9849 1451    67
                   12           460.0         5/2 +               9849 1451    68
                   13           500.6         9/2 +               9849 1451    69
                CONTINUUM LEVELS ASSUMED ABOVE  550 KEV.           9849 1451    70
        THE LEVEL DENSITY PARAMETERS : GILBERT AND CAMERON /10/.   9849 1451    71
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        GAMMA-RAY STRENGTH FUNCTION OF 3.3E-2 DEDUCED FROM        9849 1451   72
        RESONANCE PARAMETERS.                                     9849 1451   73
                                                                  9849 1451   74
  MT=16,17,37       (N,2N),(N,3N),(N,4N)                          9849 1451   75
        CALCULATED WITH EVAPORATION MODEL.                        9849 1451   76
                                                                  9849 1451   77
  MT=18             FISSION                                       9849 1451   78
        EVALUATED ON THE BASIS OF THE MEASURED DATA BY SILBERT/11/9849 1451   79
        ,DABBS+ /5/ AND KUPRIYANOV+ /12/.                         9849 1451   80
                                                                  9849 1451   81
MF=4  ANGULAR DISTRIBUTIONS OF SECONDARY NEUTRONS                 9849 1451   82
  MT=2,51-63          CALCULATED WITH OPTICAL MODEL.              9849 1451   83
  MT=16,17,18,37,91   ISOTROPIC IN THE LABORATORY SYSTEM.         9849 1451   84
                                                                  9849 1451   85
MF=5  ENERGY DISTRIBUTIONS OF SECONDARY NEUTRONS                  9849 1451   86
  MT=16,17,37,91      EVAPORATION SPECTRUM.                       9849 1451   87
  MT=18               MAXWELLIAN FISSION SPECTRUM.                9849 1451   88
                      TEMPERATURE ESTIMATED FROM SYSTEMATICS OF   9849 1451   89
                      SMITH+/13/.                                 9849 1451   90
                                                                  9849 1451   91
REFERENCES                                                        9849 1451   92
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                                                                  9849 1451  106
                                 1        451        157          9849 1451  107
                                 1        452          3          9849 1451  108
                                 1        455          7          9849 1451  109
                                 2        151        390          9849 1451  110
                                 3          1         41          9849 1451  111
                                 3          2         41          9849 1451  112
                                 3          4         19          9849 1451  113
                                 3         16          8          9849 1451  114
                                 3         17          5          9849 1451  115
                                 3         18         17          9849 1451  116
                                 3         37          4          9849 1451  117
                                 3         51         19          9849 1451  118
                                 3         52         18          9849 1451  119
                                 3         53         18          9849 1451  120
                                 3         54         18          9849 1451  121
                                 3         55         17          9849 1451  122
                                 3         56         17          9849 1451  123
                                 3         57         16          9849 1451  124
                                 3         58         15          9849 1451  125
                                 3         59         15          9849 1451  126
                                 3         60         15          9849 1451  127
                                 3         61         14          9849 1451  128
                                 3         62         14          9849 1451  129
                                 3         63         13          9849 1451  130
                                 3         91         13          9849 1451  131
                                 3        102         22          9849 1451  132
                                 3        251         22          9849 1451  133
                                 4          2        257          9849 1451  134
                                 4         16         10          9849 1451  135
                                 4         17         10          9849 1451  136
                                 4         18         10          9849 1451  137
                                 4         37         10          9849 1451  138
                                 4         51         20          9849 1451  139
                                 4         52         20          9849 1451  140
                                 4         53         20          9849 1451  141
                                 4         54         20          9849 1451  142
                                 4         55         20          9849 1451  143
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                                        4          56          20            9849 1451  144
                                        4          57          20            9849 1451  145
                                        4          58          20            9849 1451  146
                                        4          59          20            9849 1451  147
                                        4          60          20            9849 1451  148
                                        4          61          20            9849 1451  149
                                        4          62          20            9849 1451  150
                                        4          63          20            9849 1451  151
                                        4          91          10            9849 1451  152
                                        5          16          17            9849 1451  153
                                        5          17          22            9849 1451  154
                                        5          18           7            9849 1451  155
                                        5          37          25            9849 1451  156
                                        5          91          10            9849 1451  157
                                                                             9849 1  0  158
 9.82490+ 4 2.46935+ 2                  0           1           0           09849 1452  159
 0.0    + 0 0.0    + 0                  0           0           2           09849 1452  160
 4.06000+ 0 2.14000- 7                                                       9849 1452  161
                                                                             9849 1  0  162
 9.82490+ 4 2.46935+ 2                  0           2           0           09849 1455  163
 0.0    + 0 0.0    + 0                  0           0           6           09849 1455  164
 1.29000- 2 3.11000- 2 1.34000- 1 3.31000- 1 1.26000+ 0 3.21000+ 09849 1455  165
 0.0    + 0 0.0    + 0                  0           0           1           49849 1455  166
          4           2                 0           0           0           09849 1455  167
 1.00000- 5 2.80000- 3 5.00000+ 6 2.80000- 3 7.00000+ 6 1.90000- 39849 1455  168
 2.00000+ 7 1.90000- 3                                                       9849 1455  169
                                                                             9849 1  0  170
                                                                             9849 0  0  171
 9.82490+ 4 2.46935+ 2                  0           0           1           09849 2151  172
 9.82490+ 4 1.00000+ 0                  0           0           2           09849 2151  173
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 4.50000+ 0 7.73894- 1                  0           0           1           09849 2151  175
 2.46935+ 2 0.0    + 0                  0           0         336          569849 2151  176
-1.80000- 1 4.00000+ 0 1.74299- 1 9.88999- 5 4.00000- 2 1.34200- 19849 2151  177
 7.00000- 1 5.00000+ 0 1.67650- 1 6.50000- 4 4.00000- 2 1.27000- 19849 2151  178
 3.88000+ 0 4.00000+ 0 8.62910- 2 2.91000- 4 4.00000- 2 4.60000- 29849 2151  179
 5.07000+ 0 5.00000+ 0 1.85653- 1 6.53000- 4 4.00000- 2 1.45000- 19849 2151  180
 7.51000+ 0 5.00000+ 0 1.02147- 1 1.47000- 4 4.00000- 2 6.20000- 29849 2151  181
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 9.51000+ 0 4.00000+ 0 1.60610- 1 1.61000- 3 4.00000- 2 1.19000- 19849 2151  183
 1.03600+ 1 5.00000+ 0 2.13234- 1 2.34000- 4 4.00000- 2 1.73000- 19849 2151  184
 1.18800+ 1 5.00000+ 0 7.50470- 2 4.70000- 5 4.00000- 2 3.50000- 29849 2151  185
 1.35200+ 1 5.00000+ 0 2.01772- 1 7.72000- 4 4.00000- 2 1.61000- 19849 2151  186
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 1.60300+ 1 4.00000+ 0 4.07045- 1 1.04500- 3 4.00000- 2 3.66000- 19849 2151  188
 1.67900+ 1 5.00000+ 0 2.26840- 1 1.84000- 3 4.00000- 2 1.85000- 19849 2151  189
 1.75100+ 1 4.00000+ 0 7.00790- 2 7.90000- 5 4.00000- 2 3.00000- 29849 2151  190
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 5.22300+ 1 5.00000+ 0 1.80300- 1 8.29999- 3 4.00000- 2 1.32000- 19849 2151  214
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5.77000+ 1 4.00000+ 0 6.84000- 1 6.00000- 3 4.00000- 2 6.38000- 19849 2151  217
5.88000+ 1 5.00000+ 0 2.31400- 1 1.40000- 3 4.00000- 2 1.90000- 19849 2151  218
6.11000+ 1 4.00000+ 0 7.53300- 1 2.30000- 3 4.00000- 2 7.11000- 19849 2151  219
6.42000+ 1 5.00000+ 0 1.07558+ 0 5.80000- 4 4.00000- 2 1.03500+ 09849 2151  220
6.59000+ 1 5.00000+ 0 2.87500- 1 5.50000- 3 4.00000- 2 2.42000- 19849 2151  221
6.95000+ 1 4.00000+ 0 1.01100- 1 1.10000- 3 4.00000- 2 6.00000- 29849 2151  222
7.46000+ 1 5.00000+ 0 1.20694+ 0 9.40000- 4 4.00000- 2 1.16600+ 09849 2151  223
7.55000+ 1 4.00000+ 0 1.71540- 1 1.54000- 3 4.00000- 2 1.30000- 19849 2151  224
7.74000+ 1 5.00000+ 0 6.46700- 1 1.70000- 3 4.00000- 2 6.05000- 19849 2151  225
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8.15000+ 1 4.00000+ 0 8.24000- 2 2.40000- 3 4.00000- 2 4.00000- 29849 2151  228
8.52000+ 1 5.00000+ 0 5.32900- 1 2.90000- 3 4.00000- 2 4.90000- 19849 2151  229
8.66000+ 1 4.00000+ 0 1.90300- 1 3.00000- 4 4.00000- 2 1.50000- 19849 2151  230
8.80000+ 1 5.00000+ 0 2.31600- 1 3.60000- 3 4.00000- 2 1.88000- 19849 2151  231
8.98000+ 1 4.00000+ 0 5.05300- 2 5.30000- 4 4.00000- 2 1.00000- 29849 2151  232
7.00000+ 1 3.00000+ 4          2          2          0          09849 2151  233
4.50000+ 0 9.07910- 1          0          0          3          09849 2151  234
2.46935+ 2 0.0    + 0          0          0          2          09849 2151  235
4.00000+ 0 0.0    + 0          2          0        156        259849 2151  236
0.0    + 0 0.0    + 0 0.0    + 0 1.00000+ 0 0.0    + 0 1.00000+ 09849 2151  237
7.00000+ 1 3.20950+ 0 0.0    + 0 1.59690- 4 4.00000- 2 2.92790- 19849 2151  238
8.00000+ 1 3.20940+ 0 0.0    + 0 2.09700- 4 4.00000- 2 2.92790- 19849 2151  239
1.00000+ 2 3.20930+ 0 0.0    + 0 3.12910- 4 4.00000- 2 2.92790- 19849 2151  240
1.25000+ 2 3.20910+ 0 0.0    + 0 4.92440- 4 4.00000- 2 2.92790- 19849 2151  241
1.75000+ 2 3.20880+ 0 0.0    + 0 2.71400- 4 4.00000- 2 2.92790- 19849 2151  242
2.50000+ 2 3.20820+ 0 0.0    + 0 4.38600- 4 4.00000- 2 2.92790- 19849 2151  243
3.00000+ 2 3.20790+ 0 0.0    + 0 4.23420- 4 4.00000- 2 2.92790- 19849 2151  244
4.00000+ 2 3.20720+ 0 0.0    + 0 3.77090- 4 4.00000- 2 2.92790- 19849 2151  245
5.00000+ 2 3.20650+ 0 0.0    + 0 3.73180- 4 4.00000- 2 2.92790- 19849 2151  246
6.00000+ 2 3.20580+ 0 0.0    + 0 3.68530- 4 4.00000- 2 2.92790- 19849 2151  247
8.00000+ 2 3.20440+ 0 0.0    + 0 3.46230- 4 4.00000- 2 2.92790- 19849 2151  248
1.00000+ 3 3.20300+ 0 0.0    + 0 3.52960- 4 4.00000- 2 2.92790- 19849 2151  249
1.25000+ 3 3.20130+ 0 0.0    + 0 3.77210- 4 4.00000- 2 2.92790- 19849 2151  250
1.50000+ 3 3.19950+ 0 0.0    + 0 3.68960- 4 4.00000- 2 2.92790- 19849 2151  251
1.75000+ 3 3.19780+ 0 0.0    + 0 3.44080- 4 4.00000- 2 2.92790- 19849 2151  252
2.00000+ 3 3.19610+ 0 0.0    + 0 3.47500- 4 4.00000- 2 2.92790- 19849 2151  253
3.00000+ 3 3.18910+ 0 0.0    + 0 3.34730- 4 4.00000- 2 2.92790- 19849 2151  254
4.00000+ 3 3.18220+ 0 0.0    + 0 3.32150- 4 4.00000- 2 2.92790- 19849 2151  255
5.00000+ 3 3.17530+ 0 0.0    + 0 3.26540- 4 4.00000- 2 2.92790- 19849 2151  256
6.00000+ 3 3.16840+ 0 0.0    + 0 3.17770- 4 4.00000- 2 2.92790- 19849 2151  257
8.00000+ 3 3.15460+ 0 0.0    + 0 3.16740- 4 4.00000- 2 2.92790- 19849 2151  258
1.00000+ 4 3.14090+ 0 0.0    + 0 3.21580- 4 4.00000- 2 2.92790- 19849 2151  259
1.50000+ 4 3.10700+ 0 0.0    + 0 3.14700- 4 4.00000- 2 2.92790- 19849 2151  260
2.00000+ 4 3.07340+ 0 0.0    + 0 3.10610- 4 4.00000- 2 2.92790- 19849 2151  261
3.00000+ 4 3.00740+ 0 0.0    + 0 3.18790- 4 4.00000- 2 2.92790- 19849 2151  262
5.00000+ 0 0.0    + 0          2          0        156        259849 2151  263
0.0    + 0 0.0    + 0 0.0    + 0 1.00000+ 0 0.0    + 0 2.00000+ 09849 2151  264
7.00000+ 1 2.62600+ 0 0.0    + 0 1.30650- 4 4.00000- 2 4.83440- 19849 2151  265
8.00000+ 1 2.62590+ 0 0.0    + 0 1.71570- 4 4.00000- 2 4.83440- 19849 2151  266
1.00000+ 2 2.62580+ 0 0.0    + 0 2.56020- 4 4.00000- 2 4.83440- 19849 2151  267
1.25000+ 2 2.62560+ 0 0.0    + 0 4.02900- 4 4.00000- 2 4.83440- 19849 2151  268
1.75000+ 2 2.62540+ 0 0.0    + 0 2.22050- 4 4.00000- 2 4.83440- 19849 2151  269
2.50000+ 2 2.62490+ 0 0.0    + 0 3.58850- 4 4.00000- 2 4.83440- 19849 2151  270
3.00000+ 2 2.62460+ 0 0.0    + 0 3.46430- 4 4.00000- 2 4.83440- 19849 2151  271
4.00000+ 2 2.62410+ 0 0.0    + 0 3.08530- 4 4.00000- 2 4.83440- 19849 2151  272
5.00000+ 2 2.62350+ 0 0.0    + 0 3.05330- 4 4.00000- 2 4.83440- 19849 2151  273
6.00000+ 2 2.62290+ 0 0.0    + 0 3.01530- 4 4.00000- 2 4.83440- 19849 2151  274
8.00000+ 2 2.62180+ 0 0.0    + 0 2.83280- 4 4.00000- 2 4.83440- 19849 2151  275
1.00000+ 3 2.62060+ 0 0.0    + 0 2.88780- 4 4.00000- 2 4.83440- 19849 2151  276
1.25000+ 3 2.61920+ 0 0.0    + 0 3.08630- 4 4.00000- 2 4.83440- 19849 2151  277
1.50000+ 3 2.61780+ 0 0.0    + 0 3.01880- 4 4.00000- 2 4.83440- 19849 2151  278
1.75000+ 3 2.61640+ 0 0.0    + 0 2.81520- 4 4.00000- 2 4.83440- 19849 2151  279
2.00000+ 3 2.61500+ 0 0.0    + 0 2.84320- 4 4.00000- 2 4.83440- 19849 2151  280
3.00000+ 3 2.60930+ 0 0.0    + 0 2.73870- 4 4.00000- 2 4.83440- 19849 2151  281
4.00000+ 3 2.60360+ 0 0.0    + 0 2.71760- 4 4.00000- 2 4.83440- 19849 2151  282
5.00000+ 3 2.59790+ 0 0.0    + 0 2.67170- 4 4.00000- 2 4.83440- 19849 2151  283
6.00000+ 3 2.59230+ 0 0.0    + 0 2.59990- 4 4.00000- 2 4.83440- 19849 2151  284
8.00000+ 3 2.58100+ 0 0.0    + 0 2.59150- 4 4.00000- 2 4.83440- 19849 2151  285
1.00000+ 4 2.56980+ 0 0.0    + 0 2.63110- 4 4.00000- 2 4.83440- 19849 2151  286
1.50000+ 4 2.54210+ 0 0.0    + 0 2.57480- 4 4.00000- 2 4.83440- 19849 2151  287
```

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2.00000+ 4 2.51460+ 0 0.0     + 0 2.54140- 4 4.00000- 2 4.83440- 19849 2151  288
3.00000+ 4 2.46060+ 0 0.0     + 0 2.60830- 4 4.00000- 2 4.83440- 19849 2151  289
2.46935+ 2 0.0     + 0          1           0           4           09849 2151  290
3.00000+ 0 0.0     + 0          2           0         156         259849 2151  291
0.0     + 0 0.0     + 0 0.0     + 0 1.00000+ 0 0.0     + 0 1.00000+ 09849 2151  292
7.00000+ 1 4.12650+ 0 0.0     + 0 6.10130- 4 4.00000- 2 3.81300- 19849 2151  293
8.00000+ 1 4.12640+ 0 0.0     + 0 8.01200- 4 4.00000- 2 3.81300- 19849 2151  294
1.00000+ 2 4.12620+ 0 0.0     + 0 1.19560- 3 4.00000- 2 3.81300- 19849 2151  295
1.25000+ 2 4.12600+ 0 0.0     + 0 1.88150- 3 4.00000- 2 3.81300- 19849 2151  296
1.75000+ 2 4.12560+ 0 0.0     + 0 1.03690- 3 4.00000- 2 3.81300- 19849 2151  297
2.50000+ 2 4.12490+ 0 0.0     + 0 1.67580- 3 4.00000- 2 3.81300- 19849 2151  298
3.00000+ 2 4.12440+ 0 0.0     + 0 1.61780- 3 4.00000- 2 3.81300- 19849 2151  299
4.00000+ 2 4.12350+ 0 0.0     + 0 1.44080- 3 4.00000- 2 3.81300- 19849 2151  300
5.00000+ 2 4.12260+ 0 0.0     + 0 1.42580- 3 4.00000- 2 3.81300- 19849 2151  301
6.00000+ 2 4.12170+ 0 0.0     + 0 1.40810- 3 4.00000- 2 3.81300- 19849 2151  302
8.00000+ 2 4.12000+ 0 0.0     + 0 1.32280- 3 4.00000- 2 3.81300- 19849 2151  303
1.00000+ 3 4.11820+ 0 0.0     + 0 1.34860- 3 4.00000- 2 3.81300- 19849 2151  304
1.25000+ 3 4.11590+ 0 0.0     + 0 1.44120- 3 4.00000- 2 3.81300- 19849 2151  305
1.50000+ 3 4.11370+ 0 0.0     + 0 1.40970- 3 4.00000- 2 3.81300- 19849 2151  306
1.75000+ 3 4.11140+ 0 0.0     + 0 1.31470- 3 4.00000- 2 3.81300- 19849 2151  307
2.00000+ 3 4.10920+ 0 0.0     + 0 1.32770- 3 4.00000- 2 3.81300- 19849 2151  308
3.00000+ 3 4.10030+ 0 0.0     + 0 1.27890- 3 4.00000- 2 3.81300- 19849 2151  309
4.00000+ 3 4.09140+ 0 0.0     + 0 1.26910- 3 4.00000- 2 3.81300- 19849 2151  310
5.00000+ 3 4.08250+ 0 0.0     + 0 1.24760- 3 4.00000- 2 3.81300- 19849 2151  311
6.00000+ 3 4.07360+ 0 0.0     + 0 1.21410- 3 4.00000- 2 3.81300- 19849 2151  312
8.00000+ 3 4.05590+ 0 0.0     + 0 1.21020- 3 4.00000- 2 3.81300- 19849 2151  313
1.00000+ 4 4.03830+ 0 0.0     + 0 1.22870- 3 4.00000- 2 3.81300- 19849 2151  314
1.50000+ 4 3.99470+ 0 0.0     + 0 1.20240- 3 4.00000- 2 3.81300- 19849 2151  315
2.00000+ 4 3.95150+ 0 0.0     + 0 1.18680- 3 4.00000- 2 3.81300- 19849 2151  316
3.00000+ 4 3.86670+ 0 0.0     + 0 1.21800- 3 4.00000- 2 3.81300- 19849 2151  317
4.00000+ 0 0.0     + 0          2           0         156         259849 2151  318
0.0     + 0 0.0     + 0 0.0     + 0 2.00000+ 0 0.0     + 0 2.00000+ 09849 2151  319
7.00000+ 1 3.20950+ 0 0.0     + 0 4.74540- 4 4.00000- 2 5.85570- 19849 2151  320
8.00000+ 1 3.20940+ 0 0.0     + 0 6.23150- 4 4.00000- 2 5.85570- 19849 2151  321
1.00000+ 2 3.20930+ 0 0.0     + 0 9.29880- 4 4.00000- 2 5.85570- 19849 2151  322
1.25000+ 2 3.20910+ 0 0.0     + 0 1.46340- 3 4.00000- 2 5.85570- 19849 2151  323
1.75000+ 2 3.20880+ 0 0.0     + 0 8.06510- 4 4.00000- 2 5.85570- 19849 2151  324
2.50000+ 2 3.20820+ 0 0.0     + 0 1.30340- 3 4.00000- 2 5.85570- 19849 2151  325
3.00000+ 2 3.20790+ 0 0.0     + 0 1.25830- 3 4.00000- 2 5.85570- 19849 2151  326
4.00000+ 2 3.20720+ 0 0.0     + 0 1.12060- 3 4.00000- 2 5.85570- 19849 2151  327
5.00000+ 2 3.20650+ 0 0.0     + 0 1.10900- 3 4.00000- 2 5.85570- 19849 2151  328
6.00000+ 2 3.20580+ 0 0.0     + 0 1.09520- 3 4.00000- 2 5.85570- 19849 2151  329
8.00000+ 2 3.20440+ 0 0.0     + 0 1.02890- 3 4.00000- 2 5.85570- 19849 2151  330
1.00000+ 3 3.20300+ 0 0.0     + 0 1.04890- 3 4.00000- 2 5.85570- 19849 2151  331
1.25000+ 3 3.20130+ 0 0.0     + 0 1.12100- 3 4.00000- 2 5.85570- 19849 2151  332
1.50000+ 3 3.19950+ 0 0.0     + 0 1.09640- 3 4.00000- 2 5.85570- 19849 2151  333
1.75000+ 3 3.19780+ 0 0.0     + 0 1.02250- 3 4.00000- 2 5.85570- 19849 2151  334
2.00000+ 3 3.19610+ 0 0.0     + 0 1.03270- 3 4.00000- 2 5.85570- 19849 2151  335
3.00000+ 3 3.18910+ 0 0.0     + 0 9.94710- 4 4.00000- 2 5.85570- 19849 2151  336
4.00000+ 3 3.18220+ 0 0.0     + 0 9.87050- 4 4.00000- 2 5.85570- 19849 2151  337
5.00000+ 3 3.17530+ 0 0.0     + 0 9.70370- 4 4.00000- 2 5.85570- 19849 2151  338
6.00000+ 3 3.16840+ 0 0.0     + 0 9.44310- 4 4.00000- 2 5.85570- 19849 2151  339
8.00000+ 3 3.15460+ 0 0.0     + 0 9.41260- 4 4.00000- 2 5.85570- 19849 2151  340
1.00000+ 4 3.14090+ 0 0.0     + 0 9.55640- 4 4.00000- 2 5.85570- 19849 2151  341
1.50000+ 4 3.10700+ 0 0.0     + 0 9.35180- 4 4.00000- 2 5.85570- 19849 2151  342
2.00000+ 4 3.07340+ 0 0.0     + 0 9.23040- 4 4.00000- 2 5.85570- 19849 2151  343
3.00000+ 4 3.00740+ 0 0.0     + 0 9.47340- 4 4.00000- 2 5.85570- 19849 2151  344
5.00000+ 0 0.0     + 0          2           0         156         259849 2151  345
0.0     + 0 0.0     + 0 0.0     + 0 2.00000+ 0 0.0     + 0 1.00000+ 09849 2151  346
7.00000+ 1 2.62600+ 0 0.0     + 0 3.88260- 4 4.00000- 2 2.38310- 19849 2151  347
8.00000+ 1 2.62590+ 0 0.0     + 0 5.09850- 4 4.00000- 2 2.38310- 19849 2151  348
1.00000+ 2 2.62580+ 0 0.0     + 0 7.60810- 4 4.00000- 2 2.38310- 19849 2151  349
1.25000+ 2 2.62560+ 0 0.0     + 0 1.19730- 3 4.00000- 2 2.38310- 19849 2151  350
1.75000+ 2 2.62540+ 0 0.0     + 0 6.59870- 4 4.00000- 2 2.38310- 19849 2151  351
2.50000+ 2 2.62490+ 0 0.0     + 0 1.06640- 3 4.00000- 2 2.38310- 19849 2151  352
3.00000+ 2 2.62460+ 0 0.0     + 0 1.02950- 3 4.00000- 2 2.38310- 19849 2151  353
4.00000+ 2 2.62410+ 0 0.0     + 0 9.16860- 4 4.00000- 2 2.38310- 19849 2151  354
5.00000+ 2 2.62350+ 0 0.0     + 0 9.07350- 4 4.00000- 2 2.38310- 19849 2151  355
6.00000+ 2 2.62290+ 0 0.0     + 0 8.96050- 4 4.00000- 2 2.38310- 19849 2151  356
8.00000+ 2 2.62180+ 0 0.0     + 0 8.41810- 4 4.00000- 2 2.38310- 19849 2151  357
1.00000+ 3 2.62060+ 0 0.0     + 0 8.58170- 4 4.00000- 2 2.38310- 19849 2151  358
1.25000+ 3 2.61920+ 0 0.0     + 0 9.17150- 4 4.00000- 2 2.38310- 19849 2151  359
```

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1.50000+ 3 2.61780+ 0 0.0     + 0 8.97080- 4 4.00000- 2 2.38310- 19849 2151  360
1.75000+ 3 2.61640+ 0 0.0     + 0 8.36600- 4 4.00000- 2 2.38310- 19849 2151  361
2.00000+ 3 2.61500+ 0 0.0     + 0 8.44910- 4 4.00000- 2 2.38310- 19849 2151  362
3.00000+ 3 2.60930+ 0 0.0     + 0 8.13850- 4 4.00000- 2 2.38310- 19849 2151  363
4.00000+ 3 2.60360+ 0 0.0     + 0 8.07590- 4 4.00000- 2 2.38310- 19849 2151  364
5.00000+ 3 2.59790+ 0 0.0     + 0 7.93940- 4 4.00000- 2 2.38310- 19849 2151  365
6.00000+ 3 2.59230+ 0 0.0     + 0 7.72620- 4 4.00000- 2 2.38310- 19849 2151  366
8.00000+ 3 2.58100+ 0 0.0     + 0 7.70120- 4 4.00000- 2 2.38310- 19849 2151  367
1.00000+ 4 2.56980+ 0 0.0     + 0 7.81880- 4 4.00000- 2 2.38310- 19849 2151  368
1.50000+ 4 2.54210+ 0 0.0     + 0 7.65150- 4 4.00000- 2 2.38310- 19849 2151  369
2.00000+ 4 2.51460+ 0 0.0     + 0 7.55220- 4 4.00000- 2 2.38310- 19849 2151  370
3.00000+ 4 2.46060+ 0 0.0     + 0 7.75100- 4 4.00000- 2 2.38310- 19849 2151  371
6.00000+ 0 0.0     + 0          2           0         156          259849 2151  372
0.0     + 0 0.0     + 0 0.0     + 0 1.00000+ 0 0.0     + 0 2.00000+ 09849 2151  373
7.00000+ 1 2.22200+ 0 0.0     + 0 3.28530- 4 4.00000- 2 4.08540- 19849 2151  374
8.00000+ 1 2.22190+ 0 0.0     + 0 4.31410- 4 4.00000- 2 4.08540- 19849 2151  375
1.00000+ 2 2.22180+ 0 0.0     + 0 6.43760- 4 4.00000- 2 4.08540- 19849 2151  376
1.25000+ 2 2.22170+ 0 0.0     + 0 1.01310- 3 4.00000- 2 4.08540- 19849 2151  377
1.75000+ 2 2.22150+ 0 0.0     + 0 5.58350- 4 4.00000- 2 4.08540- 19849 2151  378
2.50000+ 2 2.22110+ 0 0.0     + 0 9.02340- 4 4.00000- 2 4.08540- 19849 2151  379
3.00000+ 2 2.22090+ 0 0.0     + 0 8.71110- 4 4.00000- 2 4.08540- 19849 2151  380
4.00000+ 2 2.22040+ 0 0.0     + 0 7.75800- 4 4.00000- 2 4.08540- 19849 2151  381
5.00000+ 2 2.21990+ 0 0.0     + 0 7.67760- 4 4.00000- 2 4.08540- 19849 2151  382
6.00000+ 2 2.21940+ 0 0.0     + 0 7.58200- 4 4.00000- 2 4.08540- 19849 2151  383
8.00000+ 2 2.21840+ 0 0.0     + 0 7.12300- 4 4.00000- 2 4.08540- 19849 2151  384
1.00000+ 3 2.21750+ 0 0.0     + 0 7.26150- 4 4.00000- 2 4.08540- 19849 2151  385
1.25000+ 3 2.21630+ 0 0.0     + 0 7.76050- 4 4.00000- 2 4.08540- 19849 2151  386
1.50000+ 3 2.21510+ 0 0.0     + 0 7.59070- 4 4.00000- 2 4.08540- 19849 2151  387
1.75000+ 3 2.21390+ 0 0.0     + 0 7.07890- 4 4.00000- 2 4.08540- 19849 2151  388
2.00000+ 3 2.21270+ 0 0.0     + 0 7.14930- 4 4.00000- 2 4.08540- 19849 2151  389
3.00000+ 3 2.20780+ 0 0.0     + 0 6.88640- 4 4.00000- 2 4.08540- 19849 2151  390
4.00000+ 3 2.20300+ 0 0.0     + 0 6.83340- 4 4.00000- 2 4.08540- 19849 2151  391
5.00000+ 3 2.19830+ 0 0.0     + 0 6.71800- 4 4.00000- 2 4.08540- 19849 2151  392
6.00000+ 3 2.19350+ 0 0.0     + 0 6.53750- 4 4.00000- 2 4.08540- 19849 2151  393
8.00000+ 3 2.18400+ 0 0.0     + 0 6.51640- 4 4.00000- 2 4.08540- 19849 2151  394
1.00000+ 4 2.17450+ 0 0.0     + 0 6.61590- 4 4.00000- 2 4.08540- 19849 2151  395
1.50000+ 4 2.15100+ 0 0.0     + 0 6.47440- 4 4.00000- 2 4.08540- 19849 2151  396
2.00000+ 4 2.12770+ 0 0.0     + 0 6.39030- 4 4.00000- 2 4.08540- 19849 2151  397
3.00000+ 4 2.08210+ 0 0.0     + 0 6.55850- 4 4.00000- 2 4.08540- 19849 2151  398
2.46935+ 2 0.0     + 0          2           0           6           09849 2151  399
2.00000+ 0 0.0     + 0          2           0         156          259849 2151  400
0.0     + 0 0.0     + 0 0.0     + 0 1.00000+ 0 0.0     + 0 1.00000+ 09849 2151  401
7.00000+ 1 5.77710+ 0 0.0     + 0 2.25070- 4 4.00000- 2 5.31100- 19849 2151  402
8.00000+ 1 5.77700+ 0 0.0     + 0 2.95550- 4 4.00000- 2 5.31100- 19849 2151  403
1.00000+ 2 5.77670+ 0 0.0     + 0 4.41030- 4 4.00000- 2 5.31100- 19849 2151  404
1.25000+ 2 5.77640+ 0 0.0     + 0 6.94060- 4 4.00000- 2 5.31100- 19849 2151  405
1.75000+ 2 5.77580+ 0 0.0     + 0 3.82510- 4 4.00000- 2 5.31100- 19849 2151  406
2.50000+ 2 5.77480+ 0 0.0     + 0 6.18170- 4 4.00000- 2 5.31100- 19849 2151  407
3.00000+ 2 5.77420+ 0 0.0     + 0 5.96780- 4 4.00000- 2 5.31100- 19849 2151  408
4.00000+ 2 5.77300+ 0 0.0     + 0 5.31490- 4 4.00000- 2 5.31100- 19849 2151  409
5.00000+ 2 5.77170+ 0 0.0     + 0 5.25970- 4 4.00000- 2 5.31100- 19849 2151  410
6.00000+ 2 5.77040+ 0 0.0     + 0 5.19420- 4 4.00000- 2 5.31100- 19849 2151  411
8.00000+ 2 5.76790+ 0 0.0     + 0 4.87980- 4 4.00000- 2 5.31100- 19849 2151  412
1.00000+ 3 5.76540+ 0 0.0     + 0 4.97470- 4 4.00000- 2 5.31100- 19849 2151  413
1.25000+ 3 5.76230+ 0 0.0     + 0 5.31660- 4 4.00000- 2 5.31100- 19849 2151  414
1.50000+ 3 5.75920+ 0 0.0     + 0 5.20020- 4 4.00000- 2 5.31100- 19849 2151  415
1.75000+ 3 5.75600+ 0 0.0     + 0 4.84960- 4 4.00000- 2 5.31100- 19849 2151  416
2.00000+ 3 5.75290+ 0 0.0     + 0 4.89780- 4 4.00000- 2 5.31100- 19849 2151  417
3.00000+ 3 5.74040+ 0 0.0     + 0 4.71780- 4 4.00000- 2 5.31100- 19849 2151  418
4.00000+ 3 5.72790+ 0 0.0     + 0 4.68140- 4 4.00000- 2 5.31100- 19849 2151  419
5.00000+ 3 5.71550+ 0 0.0     + 0 4.60230- 4 4.00000- 2 5.31100- 19849 2151  420
6.00000+ 3 5.70300+ 0 0.0     + 0 4.47870- 4 4.00000- 2 5.31100- 19849 2151  421
8.00000+ 3 5.67830+ 0 0.0     + 0 4.46420- 4 4.00000- 2 5.31100- 19849 2151  422
1.00000+ 4 5.65370+ 0 0.0     + 0 4.53240- 4 4.00000- 2 5.31100- 19849 2151  423
1.50000+ 4 5.59260+ 0 0.0     + 0 4.43540- 4 4.00000- 2 5.31100- 19849 2151  424
2.00000+ 4 5.53210+ 0 0.0     + 0 4.37790- 4 4.00000- 2 5.31100- 19849 2151  425
3.00000+ 4 5.41340+ 0 0.0     + 0 4.49310- 4 4.00000- 2 5.31100- 19849 2151  426
3.00000+ 0 0.0     + 0          2           0         156          259849 2151  427
0.0     + 0 0.0     + 0 0.0     + 0 2.00000+ 0 0.0     + 0 2.00000+ 09849 2151  428
7.00000+ 1 4.12650+ 0 0.0     + 0 1.60760- 4 4.00000- 2 7.55800- 19849 2151  429
8.00000+ 1 4.12640+ 0 0.0     + 0 2.11110- 4 4.00000- 2 7.55800- 19849 2151  430
1.00000+ 2 4.12620+ 0 0.0     + 0 3.15020- 4 4.00000- 2 7.55800- 19849 2151  431
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1.25000+ 2 4.12600+ 0 0.0     + 0 4.95750- 4 4.00000- 2 7.55800- 19849 2151  432
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2.50000+ 2 4.12490+ 0 0.0     + 0 4.41550- 4 4.00000- 2 7.55800- 19849 2151  434
3.00000+ 2 4.12440+ 0 0.0     + 0 4.26270- 4 4.00000- 2 7.55800- 19849 2151  435
4.00000+ 2 4.12350+ 0 0.0     + 0 3.79630- 4 4.00000- 2 7.55800- 19849 2151  436
5.00000+ 2 4.12260+ 0 0.0     + 0 3.75700- 4 4.00000- 2 7.55800- 19849 2151  437
6.00000+ 2 4.12170+ 0 0.0     + 0 3.71020- 4 4.00000- 2 7.55800- 19849 2151  438
8.00000+ 2 4.12000+ 0 0.0     + 0 3.48560- 4 4.00000- 2 7.55800- 19849 2151  439
1.00000+ 3 4.11820+ 0 0.0     + 0 3.55330- 4 4.00000- 2 7.55800- 19849 2151  440
1.25000+ 3 4.11590+ 0 0.0     + 0 3.79750- 4 4.00000- 2 7.55800- 19849 2151  441
1.50000+ 3 4.11370+ 0 0.0     + 0 3.71450- 4 4.00000- 2 7.55800- 19849 2151  442
1.75000+ 3 4.11140+ 0 0.0     + 0 3.46400- 4 4.00000- 2 7.55800- 19849 2151  443
2.00000+ 3 4.10920+ 0 0.0     + 0 3.49840- 4 4.00000- 2 7.55800- 19849 2151  444
3.00000+ 3 4.10030+ 0 0.0     + 0 3.36980- 4 4.00000- 2 7.55800- 19849 2151  445
4.00000+ 3 4.09140+ 0 0.0     + 0 3.34390- 4 4.00000- 2 7.55800- 19849 2151  446
5.00000+ 3 4.08250+ 0 0.0     + 0 3.28740- 4 4.00000- 2 7.55800- 19849 2151  447
6.00000+ 3 4.07360+ 0 0.0     + 0 3.19910- 4 4.00000- 2 7.55800- 19849 2151  448
8.00000+ 3 4.05590+ 0 0.0     + 0 3.18870- 4 4.00000- 2 7.55800- 19849 2151  449
1.00000+ 4 4.03830+ 0 0.0     + 0 3.23750- 4 4.00000- 2 7.55800- 19849 2151  450
1.50000+ 4 3.99470+ 0 0.0     + 0 3.16820- 4 4.00000- 2 7.55800- 19849 2151  451
2.00000+ 4 3.95150+ 0 0.0     + 0 3.12700- 4 4.00000- 2 7.55800- 19849 2151  452
3.00000+ 4 3.86670+ 0 0.0     + 0 3.20940- 4 4.00000- 2 7.55800- 19849 2151  453
4.00000+ 0 0.0     + 0          2          0         156          259849 2151  454
0.0     + 0 0.0     + 0 0.0     + 0 2.00000+ 0 0.0     + 0 1.00000+ 09849 2151  455
7.00000+ 1 3.20950+ 0 0.0     + 0 1.25040- 4 4.00000- 2 2.92790- 19849 2151  456
8.00000+ 1 3.20940+ 0 0.0     + 0 1.64200- 4 4.00000- 2 2.92790- 19849 2151  457
1.00000+ 2 3.20930+ 0 0.0     + 0 2.45020- 4 4.00000- 2 2.92790- 19849 2151  458
1.25000+ 2 3.20910+ 0 0.0     + 0 3.85590- 4 4.00000- 2 2.92790- 19849 2151  459
1.75000+ 2 3.20880+ 0 0.0     + 0 2.12510- 4 4.00000- 2 2.92790- 19849 2151  460
2.50000+ 2 3.20820+ 0 0.0     + 0 3.43430- 4 4.00000- 2 2.92790- 19849 2151  461
3.00000+ 2 3.20790+ 0 0.0     + 0 3.31550- 4 4.00000- 2 2.92790- 19849 2151  462
4.00000+ 2 3.20720+ 0 0.0     + 0 2.95270- 4 4.00000- 2 2.92790- 19849 2151  463
5.00000+ 2 3.20650+ 0 0.0     + 0 2.92210- 4 4.00000- 2 2.92790- 19849 2151  464
6.00000+ 2 3.20580+ 0 0.0     + 0 2.88570- 4 4.00000- 2 2.92790- 19849 2151  465
8.00000+ 2 3.20440+ 0 0.0     + 0 2.71100- 4 4.00000- 2 2.92790- 19849 2151  466
1.00000+ 3 3.20300+ 0 0.0     + 0 2.76370- 4 4.00000- 2 2.92790- 19849 2151  467
1.25000+ 3 3.20130+ 0 0.0     + 0 2.95360- 4 4.00000- 2 2.92790- 19849 2151  468
1.50000+ 3 3.19950+ 0 0.0     + 0 2.88900- 4 4.00000- 2 2.92790- 19849 2151  469
1.75000+ 3 3.19780+ 0 0.0     + 0 2.69420- 4 4.00000- 2 2.92790- 19849 2151  470
2.00000+ 3 3.19610+ 0 0.0     + 0 2.72100- 4 4.00000- 2 2.92790- 19849 2151  471
3.00000+ 3 3.18910+ 0 0.0     + 0 2.62100- 4 4.00000- 2 2.92790- 19849 2151  472
4.00000+ 3 3.18220+ 0 0.0     + 0 2.60080- 4 4.00000- 2 2.92790- 19849 2151  473
5.00000+ 3 3.17530+ 0 0.0     + 0 2.55690- 4 4.00000- 2 2.92790- 19849 2151  474
6.00000+ 3 3.16840+ 0 0.0     + 0 2.48820- 4 4.00000- 2 2.92790- 19849 2151  475
8.00000+ 3 3.15460+ 0 0.0     + 0 2.48010- 4 4.00000- 2 2.92790- 19849 2151  476
1.00000+ 4 3.14090+ 0 0.0     + 0 2.51800- 4 4.00000- 2 2.92790- 19849 2151  477
1.50000+ 4 3.10700+ 0 0.0     + 0 2.46410- 4 4.00000- 2 2.92790- 19849 2151  478
2.00000+ 4 3.07340+ 0 0.0     + 0 2.43210- 4 4.00000- 2 2.92790- 19849 2151  479
3.00000+ 4 3.00740+ 0 0.0     + 0 2.49620- 4 4.00000- 2 2.92790- 19849 2151  480
5.00000+ 0 0.0     + 0          2          0         156          259849 2151  481
0.0     + 0 0.0     + 0 0.0     + 0 2.00000+ 0 0.0     + 0 2.00000+ 09849 2151  482
7.00000+ 1 2.62600+ 0 0.0     + 0 1.02300- 4 4.00000- 2 4.83440- 19849 2151  483
8.00000+ 1 2.62590+ 0 0.0     + 0 1.34340- 4 4.00000- 2 4.83440- 19849 2151  484
1.00000+ 2 2.62580+ 0 0.0     + 0 2.00470- 4 4.00000- 2 4.83440- 19849 2151  485
1.25000+ 2 2.62560+ 0 0.0     + 0 3.15480- 4 4.00000- 2 4.83440- 19849 2151  486
1.75000+ 2 2.62540+ 0 0.0     + 0 1.73870- 4 4.00000- 2 4.83440- 19849 2151  487
2.50000+ 2 2.62490+ 0 0.0     + 0 2.80990- 4 4.00000- 2 4.83440- 19849 2151  488
3.00000+ 2 2.62460+ 0 0.0     + 0 2.71260- 4 4.00000- 2 4.83440- 19849 2151  489
4.00000+ 2 2.62410+ 0 0.0     + 0 2.41580- 4 4.00000- 2 4.83440- 19849 2151  490
5.00000+ 2 2.62350+ 0 0.0     + 0 2.39080- 4 4.00000- 2 4.83440- 19849 2151  491
6.00000+ 2 2.62290+ 0 0.0     + 0 2.36100- 4 4.00000- 2 4.83440- 19849 2151  492
8.00000+ 2 2.62180+ 0 0.0     + 0 2.21810- 4 4.00000- 2 4.83440- 19849 2151  493
1.00000+ 3 2.62060+ 0 0.0     + 0 2.26120- 4 4.00000- 2 4.83440- 19849 2151  494
1.25000+ 3 2.61920+ 0 0.0     + 0 2.41660- 4 4.00000- 2 4.83440- 19849 2151  495
1.50000+ 3 2.61780+ 0 0.0     + 0 2.36370- 4 4.00000- 2 4.83440- 19849 2151  496
1.75000+ 3 2.61640+ 0 0.0     + 0 2.20440- 4 4.00000- 2 4.83440- 19849 2151  497
2.00000+ 3 2.61500+ 0 0.0     + 0 2.22630- 4 4.00000- 2 4.83440- 19849 2151  498
3.00000+ 3 2.60930+ 0 0.0     + 0 2.14440- 4 4.00000- 2 4.83440- 19849 2151  499
4.00000+ 3 2.60360+ 0 0.0     + 0 2.12790- 4 4.00000- 2 4.83440- 19849 2151  500
5.00000+ 3 2.59790+ 0 0.0     + 0 2.09200- 4 4.00000- 2 4.83440- 19849 2151  501
6.00000+ 3 2.59230+ 0 0.0     + 0 2.03580- 4 4.00000- 2 4.83440- 19849 2151  502
8.00000+ 3 2.58100+ 0 0.0     + 0 2.02920- 4 4.00000- 2 4.83440- 19849 2151  503
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1.00000+ 4 2.56980+ 0 0.0     + 0 2.06020- 4 4.00000- 2 4.83440- 19849 2151   504
1.50000+ 4 2.54210+ 0 0.0     + 0 2.01610- 4 4.00000- 2 4.83440- 19849 2151   505
2.00000+ 4 2.51460+ 0 0.0     + 0 1.98990- 4 4.00000- 2 4.83440- 19849 2151   506
3.00000+ 4 2.46060+ 0 0.0     + 0 2.04230- 4 4.00000- 2 4.83440- 19849 2151   507
6.00000+ 0 0.0     + 0          2           0         156          259849 2151   508
0.0     + 0 0.0     + 0 0.0     + 0 2.00000+ 0 0.0     + 0 1.00000+ 09849 2151   509
7.00000+ 1 2.22200+ 0 0.0     + 0 8.65650- 5 4.00000- 2 2.04270- 19849 2151   510
8.00000+ 1 2.22190+ 0 0.0     + 0 1.13670- 4 4.00000- 2 2.04270- 19849 2151   511
1.00000+ 2 2.22180+ 0 0.0     + 0 1.69630- 4 4.00000- 2 2.04270- 19849 2151   512
1.25000+ 2 2.22170+ 0 0.0     + 0 2.66940- 4 4.00000- 2 2.04270- 19849 2151   513
1.75000+ 2 2.22150+ 0 0.0     + 0 1.47120- 4 4.00000- 2 2.04270- 19849 2151   514
2.50000+ 2 2.22110+ 0 0.0     + 0 2.37760- 4 4.00000- 2 2.04270- 19849 2151   515
3.00000+ 2 2.22090+ 0 0.0     + 0 2.29530- 4 4.00000- 2 2.04270- 19849 2151   516
4.00000+ 2 2.22040+ 0 0.0     + 0 2.04420- 4 4.00000- 2 2.04270- 19849 2151   517
5.00000+ 2 2.21990+ 0 0.0     + 0 2.02300- 4 4.00000- 2 2.04270- 19849 2151   518
6.00000+ 2 2.21940+ 0 0.0     + 0 1.99780- 4 4.00000- 2 2.04270- 19849 2151   519
8.00000+ 2 2.21840+ 0 0.0     + 0 1.87690- 4 4.00000- 2 2.04270- 19849 2151   520
1.00000+ 3 2.21750+ 0 0.0     + 0 1.91330- 4 4.00000- 2 2.04270- 19849 2151   521
1.25000+ 3 2.21630+ 0 0.0     + 0 2.04480- 4 4.00000- 2 2.04270- 19849 2151   522
1.50000+ 3 2.21510+ 0 0.0     + 0 2.00010- 4 4.00000- 2 2.04270- 19849 2151   523
1.75000+ 3 2.21390+ 0 0.0     + 0 1.86520- 4 4.00000- 2 2.04270- 19849 2151   524
2.00000+ 3 2.21270+ 0 0.0     + 0 1.88380- 4 4.00000- 2 2.04270- 19849 2151   525
3.00000+ 3 2.20780+ 0 0.0     + 0 1.81450- 4 4.00000- 2 2.04270- 19849 2151   526
4.00000+ 3 2.20300+ 0 0.0     + 0 1.80060- 4 4.00000- 2 2.04270- 19849 2151   527
5.00000+ 3 2.19830+ 0 0.0     + 0 1.77010- 4 4.00000- 2 2.04270- 19849 2151   528
6.00000+ 3 2.19350+ 0 0.0     + 0 1.72260- 4 4.00000- 2 2.04270- 19849 2151   529
8.00000+ 3 2.18400+ 0 0.0     + 0 1.71700- 4 4.00000- 2 2.04270- 19849 2151   530
1.00000+ 4 2.17450+ 0 0.0     + 0 1.74320- 4 4.00000- 2 2.04270- 19849 2151   531
1.50000+ 4 2.15100+ 0 0.0     + 0 1.70590- 4 4.00000- 2 2.04270- 19849 2151   532
2.00000+ 4 2.12770+ 0 0.0     + 0 1.68380- 4 4.00000- 2 2.04270- 19849 2151   533
3.00000+ 4 2.08210+ 0 0.0     + 0 1.72810- 4 4.00000- 2 2.04270- 19849 2151   534
7.00000+ 0 0.0     + 0          2           0         156          259849 2151   535
0.0     + 0 0.0     + 0 0.0     + 0 1.00000+ 0 0.0     + 0 2.00000+ 09849 2151   536
7.00000+ 1 1.92570+ 0 0.0     + 0 7.50230- 5 4.00000- 2 3.54070- 19849 2151   537
8.00000+ 1 1.92570+ 0 0.0     + 0 9.85180- 5 4.00000- 2 3.54070- 19849 2151   538
1.00000+ 2 1.92560+ 0 0.0     + 0 1.47010- 4 4.00000- 2 3.54070- 19849 2151   539
1.25000+ 2 1.92550+ 0 0.0     + 0 2.31350- 4 4.00000- 2 3.54070- 19849 2151   540
1.75000+ 2 1.92530+ 0 0.0     + 0 1.27500- 4 4.00000- 2 3.54070- 19849 2151   541
2.50000+ 2 1.92490+ 0 0.0     + 0 2.06060- 4 4.00000- 2 3.54070- 19849 2151   542
3.00000+ 2 1.92470+ 0 0.0     + 0 1.98930- 4 4.00000- 2 3.54070- 19849 2151   543
4.00000+ 2 1.92430+ 0 0.0     + 0 1.77160- 4 4.00000- 2 3.54070- 19849 2151   544
5.00000+ 2 1.92390+ 0 0.0     + 0 1.75320- 4 4.00000- 2 3.54070- 19849 2151   545
6.00000+ 2 1.92350+ 0 0.0     + 0 1.73140- 4 4.00000- 2 3.54070- 19849 2151   546
8.00000+ 2 1.92260+ 0 0.0     + 0 1.62660- 4 4.00000- 2 3.54070- 19849 2151   547
1.00000+ 3 1.92180+ 0 0.0     + 0 1.65820- 4 4.00000- 2 3.54070- 19849 2151   548
1.25000+ 3 1.92080+ 0 0.0     + 0 1.77220- 4 4.00000- 2 3.54070- 19849 2151   549
1.50000+ 3 1.91970+ 0 0.0     + 0 1.73340- 4 4.00000- 2 3.54070- 19849 2151   550
1.75000+ 3 1.91870+ 0 0.0     + 0 1.61650- 4 4.00000- 2 3.54070- 19849 2151   551
2.00000+ 3 1.91760+ 0 0.0     + 0 1.63260- 4 4.00000- 2 3.54070- 19849 2151   552
3.00000+ 3 1.91350+ 0 0.0     + 0 1.57260- 4 4.00000- 2 3.54070- 19849 2151   553
4.00000+ 3 1.90930+ 0 0.0     + 0 1.56050- 4 4.00000- 2 3.54070- 19849 2151   554
5.00000+ 3 1.90520+ 0 0.0     + 0 1.53410- 4 4.00000- 2 3.54070- 19849 2151   555
6.00000+ 3 1.90100+ 0 0.0     + 0 1.49290- 4 4.00000- 2 3.54070- 19849 2151   556
8.00000+ 3 1.89280+ 0 0.0     + 0 1.48810- 4 4.00000- 2 3.54070- 19849 2151   557
1.00000+ 4 1.88460+ 0 0.0     + 0 1.51080- 4 4.00000- 2 3.54070- 19849 2151   558
1.50000+ 4 1.86420+ 0 0.0     + 0 1.47850- 4 4.00000- 2 3.54070- 19849 2151   559
2.00000+ 4 1.84400+ 0 0.0     + 0 1.45930- 4 4.00000- 2 3.54070- 19849 2151   560
3.00000+ 4 1.80450+ 0 0.0     + 0 1.49770- 4 4.00000- 2 3.54070- 19849 2151   561
                                                                      9849 2  0   562
                                                                      9849 0  0   563
9.82490+ 4 2.46935+ 2          0          99          0           09849 3  1   564
0.0     + 0 0.0     + 0          0           0          2         1149849 3  1   565
         3          2         114           5          0           09849 3  1   566
1.00000- 5 0.0     + 0 2.53000- 2 0.0     + 0 3.00000+ 4 0.0     + 09849 3  1   567
3.00000+ 4 1.40948+ 1 4.00000+ 4 1.39268+ 1 5.00000+ 4 1.38036+ 19849 3  1   568
6.00000+ 4 1.36992+ 1 6.27531+ 4 1.36722+ 1 8.00000+ 4 1.35095+ 19849 3  1   569
1.00000+ 5 1.33234+ 1 1.36752+ 5 1.29695+ 1 1.45587+ 5 1.28820+ 19849 3  1   570
1.88761+ 5 1.24470+ 1 2.00000+ 5 1.23330+ 1 2.19887+ 5 1.21316+ 19849 3  1   571
2.44084+ 5 1.18889+ 1 3.00000+ 5 1.13452+ 1 3.81037+ 5 1.06176+ 19849 3  1   572
4.00000+ 5 1.04595+ 1 4.18287+ 5 1.03115+ 1 4.39272+ 5 1.01473+ 19849 3  1   573
4.41782+ 5 1.01281+ 1 4.44794+ 5 1.01051+ 1 4.61863+ 5 9.97724+ 09849 3  1   574
5.00000+ 5 9.70578+ 0 5.02627+ 5 9.68779+ 0 5.52227+ 5 9.36591+ 09849 3  1   575
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6.00000+ 5 9.08553+ 0 7.00000+ 5 8.58715+ 0 8.00000+ 5 8.19472+ 09849 3  1  576
9.00000+ 5 7.89050+ 0 1.00000+ 6 7.65727+ 0 1.50000+ 6 7.12010+ 09849 3  1  577
2.00000+ 6 7.07512+ 0 2.25000+ 6 7.13694+ 0 2.50000+ 6 7.22951+ 09849 3  1  578
2.75000+ 6 7.33738+ 0 3.00000+ 6 7.44772+ 0 3.50000+ 6 7.63791+ 09849 3  1  579
4.00000+ 6 7.75690+ 0 4.50000+ 6 7.80336+ 0 5.00000+ 6 7.78554+ 09849 3  1  580
5.61570+ 6 7.66822+ 0 6.00000+ 6 7.53897+ 0 6.23574+ 6 7.42281+ 09849 3  1  581
6.48074+ 6 7.30844+ 0 6.60683+ 6 7.25191+ 0 6.73537+ 6 7.19582+ 09849 3  1  582
6.86641+ 6 7.14017+ 0 7.00000+ 6 7.08495+ 0 7.23762+ 6 6.96777+ 09849 3  1  583
7.48331+ 6 6.85253+ 0 7.60926+ 6 6.79563+ 0 7.73734+ 6 6.73919+ 09849 3  1  584
7.86757+ 6 6.68323+ 0 7.93351+ 6 6.65542+ 0 8.00000+ 6 6.62773+ 09849 3  1  585
8.23907+ 6 6.53658+ 0 8.48528+ 6 6.44668+ 0 8.61113+ 6 6.40219+ 09849 3  1  586
8.73885+ 6 6.35801+ 0 8.86846+ 6 6.31414+ 0 8.93399+ 6 6.29232+ 09849 3  1  587
9.00000+ 6 6.27057+ 0 9.24021+ 6 6.21044+ 0 9.48683+ 6 6.15088+ 09849 3  1  588
9.61260+ 6 6.12132+ 0 9.74004+ 6 6.09190+ 0 9.86916+ 6 6.06262+ 09849 3  1  589
9.93436+ 6 6.04803+ 0 1.00000+ 7 6.03348+ 0 1.04664+ 7 5.97480+ 09849 3  1  590
1.07077+ 7 5.94567+ 0 1.09545+ 7 5.91669+ 0 1.12070+ 7 5.88785+ 09849 3  1  591
1.14653+ 7 5.85915+ 0 1.15967+ 7 5.84486+ 0 1.17296+ 7 5.83059+ 09849 3  1  592
1.18640+ 7 5.81637+ 0 1.19318+ 7 5.80926+ 0 1.20000+ 7 5.80217+ 09849 3  1  593
1.21528+ 7 5.79729+ 0 1.23076+ 7 5.79242+ 0 1.24643+ 7 5.78755+ 09849 3  1  594
1.25434+ 7 5.78511+ 0 1.26230+ 7 5.78268+ 0 1.29540+ 7 5.79124+ 09849 3  1  595
1.32937+ 7 5.79982+ 0 1.34669+ 7 5.80411+ 0 1.36423+ 7 5.80841+ 09849 3  1  596
1.38200+ 7 5.81271+ 0 1.40000+ 7 5.81701+ 0 1.44752+ 7 5.85547+ 09849 3  1  597
1.49666+ 7 5.89418+ 0 1.54747+ 7 5.93315+ 0 1.57352+ 7 5.95274+ 09849 3  1  598
1.60000+ 7 5.97238+ 0 1.64782+ 7 6.01310+ 0 1.69706+ 7 6.05409+ 09849 3  1  599
1.72223+ 7 6.07469+ 0 1.74777+ 7 6.09536+ 0 1.77369+ 7 6.11610+ 09849 3  1  600
1.78680+ 7 6.12650+ 0 1.80000+ 7 6.13691+ 0 1.81640+ 7 6.14876+ 09849 3  1  601
1.83295+ 7 6.16063+ 0 1.84965+ 7 6.17252+ 0 1.86650+ 7 6.18443+ 09849 3  1  602
1.89902+ 7 6.20439+ 0 1.93210+ 7 6.22441+ 0 1.94886+ 7 6.23444+ 09849 3  1  603
1.96576+ 7 6.24449+ 0 1.98281+ 7 6.25456+ 0 2.00000+ 7 6.26464+ 09849 3  1  604
                                                                  9849 3  0  605
9.82490+ 4 2.46935+ 2          0          0          0          09849 3  2  606
0.0    + 0 0.0    + 0          0          0          2        1149849 3  2  607
         3          2        114          5          0          09849 3  2  608
1.00000- 5 0.0    + 0 2.53000- 2 0.0    + 0 3.00000+ 4 0.0    + 09849 3  2  609
3.00000+ 4 1.07069+ 1 4.00000+ 4 1.07766+ 1 5.00000+ 4 1.07683+ 19849 3  2  610
6.00000+ 4 1.07726+ 1 6.27531+ 4 1.07567+ 1 8.00000+ 4 1.05864+ 19849 3  2  611
1.00000+ 5 1.03897+ 1 1.36752+ 5 1.00822+ 1 1.45587+ 5 9.99745+ 09849 3  2  612
1.88761+ 5 9.52675+ 0 2.00000+ 5 9.38120+ 0 2.19887+ 5 9.17121+ 09849 3  2  613
2.44084+ 5 8.92549+ 0 3.00000+ 5 8.34277+ 0 3.81037+ 5 7.64313+ 09849 3  2  614
4.00000+ 5 7.48025+ 0 4.18287+ 5 7.34471+ 0 4.39272+ 5 7.19426+ 09849 3  2  615
4.41782+ 5 7.17225+ 0 4.44794+ 5 7.14890+ 0 4.61863+ 5 7.01540+ 09849 3  2  616
5.00000+ 5 6.74327+ 0 5.02627+ 5 6.72527+ 0 5.52227+ 5 6.39105+ 09849 3  2  617
6.00000+ 5 6.10157+ 0 7.00000+ 5 5.56913+ 0 8.00000+ 5 5.11644+ 09849 3  2  618
9.00000+ 5 4.74281+ 0 1.00000+ 6 4.43072+ 0 1.50000+ 6 3.64321+ 09849 3  2  619
2.00000+ 6 3.69984+ 0 2.25000+ 6 3.87248+ 0 2.50000+ 6 4.07649+ 09849 3  2  620
2.75000+ 6 4.28263+ 0 3.00000+ 6 4.47322+ 0 3.50000+ 6 4.77307+ 09849 3  2  621
4.00000+ 6 4.94583+ 0 4.50000+ 6 4.99782+ 0 5.00000+ 6 4.95038+ 09849 3  2  622
5.61570+ 6 4.79122+ 0 6.00000+ 6 4.65118+ 0 6.23574+ 6 4.54413+ 09849 3  2  623
6.48074+ 6 4.43425+ 0 6.60683+ 6 4.37821+ 0 6.73537+ 6 4.32140+ 09849 3  2  624
6.86641+ 6 4.26381+ 0 7.00000+ 6 4.20541+ 0 7.23762+ 6 4.08858+ 09849 3  2  625
7.48331+ 6 3.97277+ 0 7.60926+ 6 3.91523+ 0 7.73734+ 6 3.85792+ 09849 3  2  626
7.86757+ 6 3.80084+ 0 7.93351+ 6 3.77238+ 0 8.00000+ 6 3.74397+ 09849 3  2  627
8.23907+ 6 3.64458+ 0 8.48528+ 6 3.54634+ 0 8.61113+ 6 3.49764+ 09849 3  2  628
8.73885+ 6 3.44923+ 0 8.86846+ 6 3.40110+ 0 8.93399+ 6 3.37714+ 09849 3  2  629
9.00000+ 6 3.35325+ 0 9.24021+ 6 3.28146+ 0 9.48683+ 6 3.21018+ 09849 3  2  630
9.61260+ 6 3.17472+ 0 9.74004+ 6 3.13939+ 0 9.86916+ 6 3.10417+ 09849 3  2  631
9.93436+ 6 3.08661+ 0 1.00000+ 7 3.06908+ 0 1.04664+ 7 2.99806+ 09849 3  2  632
1.07077+ 7 2.96253+ 0 1.09545+ 7 2.92700+ 0 1.12070+ 7 2.89145+ 09849 3  2  633
1.14653+ 7 2.85588+ 0 1.15967+ 7 2.83809+ 0 1.17296+ 7 2.82028+ 09849 3  2  634
1.18640+ 7 2.80247+ 0 1.19318+ 7 2.79356+ 0 1.20000+ 7 2.78465+ 09849 3  2  635
1.21528+ 7 2.77668+ 0 1.23076+ 7 2.76866+ 0 1.24643+ 7 2.76059+ 09849 3  2  636
1.25434+ 7 2.75653+ 0 1.26230+ 7 2.75246+ 0 1.29540+ 7 2.75160+ 09849 3  2  637
1.32937+ 7 2.75040+ 0 1.34669+ 7 2.74967+ 0 1.36423+ 7 2.74885+ 09849 3  2  638
1.38200+ 7 2.74794+ 0 1.40000+ 7 2.74694+ 0 1.44752+ 7 2.76975+ 09849 3  2  639
1.49666+ 7 2.79209+ 0 1.54747+ 7 2.81396+ 0 1.57352+ 7 2.82471+ 09849 3  2  640
1.60000+ 7 2.83532+ 0 1.64782+ 7 2.86461+ 0 1.69706+ 7 2.89367+ 09849 3  2  641
1.72223+ 7 2.90811+ 0 1.74777+ 7 2.92249+ 0 1.77369+ 7 2.93680+ 09849 3  2  642
1.78680+ 7 2.94394+ 0 1.80000+ 7 2.95106+ 0 1.81640+ 7 2.95970+ 09849 3  2  643
1.83295+ 7 2.96832+ 0 1.84965+ 7 2.97693+ 0 1.86650+ 7 2.98551+ 09849 3  2  644
1.89902+ 7 3.00015+ 0 1.93210+ 7 3.01468+ 0 1.94886+ 7 3.02192+ 09849 3  2  645
1.96576+ 7 3.02912+ 0 1.98281+ 7 3.03629+ 0 2.00000+ 7 3.04344+ 09849 3  2  646
                                                                  9849 3  0  647
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9.82490+ 4 2.46935+ 2           0          99           0           09849 3  4  648
0.0     + 0-6.25000+ 4           0           0           1          489849 3  4  649
         48          3           0           0           0           09849 3  4  650
6.27531+ 4 0.0     + 0 8.00000+ 4 1.08227- 1 1.00000+ 5 2.04075- 19849 3  4  651
1.36752+ 5 3.32394- 1 1.45587+ 5 3.66042- 1 1.88761+ 5 5.53879- 19849 3  4  652
2.00000+ 5 6.23881- 1 2.19887+ 5 6.99939- 1 2.44084+ 5 7.72696- 19849 3  4  653
3.00000+ 5 9.46048- 1 3.81037+ 5 1.03240+ 0 4.00000+ 5 1.06021+ 09849 3  4  654
4.18287+ 5 1.08008+ 0 4.39272+ 5 1.10036+ 0 4.41782+ 5 1.10784+ 09849 3  4  655
4.44794+ 5 1.11346+ 0 4.61863+ 5 1.14781+ 0 5.00000+ 5 1.20369+ 09849 3  4  656
5.02627+ 5 1.20589+ 0 5.52227+ 5 1.25758+ 0 6.00000+ 5 1.29721+ 09849 3  4  657
7.00000+ 5 1.39575+ 0 8.00000+ 5 1.49967+ 0 9.00000+ 5 1.61084+ 09849 3  4  658
1.00000+ 6 1.69369+ 0 1.50000+ 6 1.68869+ 0 2.00000+ 6 1.38982+ 09849 3  4  659
2.25000+ 6 1.25863+ 0 2.50000+ 6 1.16184+ 0 2.75000+ 6 1.09431+ 09849 3  4  660
3.00000+ 6 1.04205+ 0 3.50000+ 6 1.01207+ 0 4.00000+ 6 9.64107- 19849 3  4  661
4.50000+ 6 9.81592- 1 5.00000+ 6 9.63042- 1 5.61570+ 6 9.75965- 19849 3  4  662
6.00000+ 6 7.94249- 1 7.00000+ 6 2.27489- 1 8.00000+ 6 5.47551- 29849 3  4  663
9.00000+ 6 1.33242- 2 1.00000+ 7 3.39990- 3 1.20000+ 7 5.23207- 49849 3  4  664
1.26230+ 7 2.21592- 4 1.40000+ 7 6.56420- 5 1.60000+ 7 5.81148- 59849 3  4  665
1.80000+ 7 5.44545- 5 1.86650+ 7 1.16109- 4 2.00000+ 7 9.84358- 59849 3  4  666
                                                                  9849 3  0  667
9.82490+ 4 2.46935+ 2           0          99           0           09849 3 16  668
0.0     + 0-5.59310+ 6           0           0           1          139849 3 16  669
         13          2           0           0           0           09849 3 16  670
5.61570+ 6 0.0     + 0 6.00000+ 6 1.63000- 1 7.00000+ 6 6.02000- 19849 3 16  671
8.00000+ 6 6.79000- 1 9.00000+ 6 6.54000- 1 1.00000+ 7 6.51000- 19849 3 16  672
1.20000+ 7 7.07000- 1 1.26230+ 7 7.25000- 1 1.40000+ 7 6.62000- 19849 3 16  673
1.60000+ 7 2.56000- 1 1.80000+ 7 6.18000- 2 1.86650+ 7 3.68000- 29849 3 16  674
2.00000+ 7 1.27000- 2                                             9849 3 16  675
                                                                  9849 3  0  676
9.82490+ 4 2.46935+ 2           0          99           0           09849 3 17  677
0.0     + 0-1.25718+ 7           0           0           1           69849 3 17  678
         6           2           0           0           0           09849 3 17  679
1.26230+ 7 0.0     + 0 1.40000+ 7 1.18000- 1 1.60000+ 7 6.11000- 19849 3 17  680
1.80000+ 7 8.74000- 1 1.86650+ 7 9.17000- 1 2.00000+ 7 9.68000- 19849 3 17  681
                                                                  9849 3  0  682
9.82490+ 4 2.46935+ 2           0          99           0           09849 3 18  683
0.0     : 0 0.0     + 0           0           0           2          419849 3 18  684
         3           2          41           5           0           09849 3 18  685
1.00000- 5 0.0     + 0 2.53000- 2 0.0     + 0 3.00000+ 4 0.0     + 09849 3 18  686
3.00000+ 4 2.70000+ 0 4.00000+ 4 2.40000+ 0 5.00000+ 4 2.30000+ 09849 3 18  687
6.00000+ 4 2.20000+ 0 8.00000+ 4 2.20000+ 0 1.00000+ 5 2.19000+ 09849 3 18  688
2.00000+ 5 1.97000+ 0 3.00000+ 5 1.80000+ 0 4.00000+ 5 1.70000+ 09849 3 18  689
5.00000+ 5 1.56000+ 0 6.00000+ 5 1.50000+ 0 7.00000+ 5 1.44000+ 09849 3 18  690
8.00000+ 5 1.40000+ 0 9.00000+ 5 1.36000+ 0 1.00000+ 6 1.36000+ 09849 3 18  691
1.50000+ 6 1.66000+ 0 2.00000+ 6 1.91000+ 0 2.25000+ 6 1.95000+ 09849 3 18  692
2.50000+ 6 1.95000+ 0 2.75000+ 6 1.93000+ 0 3.00000+ 6 1.91000+ 09849 3 18  693
3.50000+ 6 1.84000+ 0 4.00000+ 6 1.84000+ 0 4.50000+ 6 1.82000+ 09849 3 18  694
5.00000+ 6 1.87000+ 0 5.61570+ 6 1.90000+ 0 6.00000+ 6 1.93000+ 09849 3 18  695
7.00000+ 6 2.05000+ 0 8.00000+ 6 2.15000+ 0 9.00000+ 6 2.25000+ 09849 3 18  696
1.00000+ 7 2.31000+ 0 1.20000+ 7 2.31000+ 0 1.26230+ 7 2.30500+ 09849 3 18  697
1.40000+ 7 2.29000+ 0 1.60000+ 7 2.27000+ 0 1.80000+ 7 2.25000+ 09849 3 18  698
1.86650+ 7 2.24500+ 0 2.00000+ 7 2.23000+ 0                       9849 3 18  699
                                                                  9849 3  0  700
9.82490+ 4 2.46935+ 2           0          99           0           09849 3 37  701
0.0     + 0-1.85897+ 7           0           0           1           29849 3 37  702
         2           2           0           0           0           09849 3 37  703
1.86650+ 7 0.0     + 0 2.00000+ 7 1.04000- 2                       9849 3 37  704
                                                                  9849 3  0  705
9.82490+ 4 2.46935+ 2           0           1           0           09849 3 51  706
0.0     + 0-6.25000+ 4           0           0           1          489849 3 51  707
         48          3           0           0           0           09849 3 51  708
6.27531+ 4 0.0     + 0 8.00000+ 4 1.08227- 1 1.00000+ 5 2.04075- 19849 3 51  709
1.36752+ 5 3.32394- 1 1.45587+ 5 3.52783- 1 1.88761+ 5 4.16444- 19849 3 51  710
2.00000+ 5 4.22713- 1 2.19887+ 5 4.33628- 1 2.44084+ 5 4.40410- 19849 3 51  711
3.00000+ 5 4.28575- 1 3.81037+ 5 4.09539- 1 4.00000+ 5 4.03331- 19849 3 51  712
4.18287+ 5 3.99941- 1 4.39272+ 5 3.96651- 1 4.41782+ 5 3.94660- 19849 3 51  713
4.44794+ 5 3.93442- 1 4.61863+ 5 3.87073- 1 5.00000+ 5 3.78392- 19849 3 51  714
5.02627+ 5 3.77594- 1 5.52227+ 5 3.59335- 1 6.00000+ 5 3.47022- 19849 3 51  715
7.00000+ 5 3.23526- 1 8.00000+ 5 2.99780- 1 9.00000+ 5 2.78315- 19849 3 51  716
1.00000+ 6 2.53555- 1 1.50000+ 6 1.20747- 1 2.00000+ 6 4.03567- 29849 3 51  717
2.25000+ 6 2.19250- 2 2.50000+ 6 1.18154- 2 2.75000+ 6 6.39292- 39849 3 51  718
3.00000+ 6 3.47496- 3 3.50000+ 6 1.10726- 3 4.00000+ 6 3.55561- 49849 3 51  719
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4.50000+ 6 1.25294- 4 5.00000+ 6 4.41707- 5 5.61570+ 6 1.35300- 59849 3 51  720
6.00000+ 6 5.38397- 6 7.00000+ 6 2.61361- 7 8.00000+ 6 1.18548- 89849 3 51  721
9.00000+ 6 5.92886-10 1.00000+ 7 3.37173-11 1.20000+ 7 3.19119-139849 3 51  722
1.26230+ 7 5.93833-14 1.40000+ 7 3.05281-15 1.60000+ 7 2.44842-169849 3 51  723
1.80000+ 7 2.37822-17 1.86650+ 7 2.44799-17 2.00000+ 7 4.97924-189849 3 51  724
                                                                 9849 3  0  725
9.82490+ 4 2.46935+ 2          0          2          0          09849 3 52  726
0.0     + 0-1.36200+ 5         0          0          1         459849 3 52  727
        45          3          0          0          0          09849 3 52  728
1.36752+ 5 0.0     + 0 1.45587+ 5 1.32587- 2 1.88761+ 5 8.88720- 29849 3 52  729
2.00000+ 5 1.05298- 1 2.19887+ 5 1.29672- 1 2.44084+ 5 1.51420- 19849 3 52  730
3.00000+ 5 1.79630- 1 3.81037+ 5 1.98628- 1 4.00000+ 5 2.01301- 19849 3 52  731
4.18287+ 5 2.04245- 1 4.39272+ 5 2.07431- 1 4.41782+ 5 2.07282- 19849 3 52  732
4.44794+ 5 2.07468- 1 4.61863+ 5 2.08939- 1 5.00000+ 5 2.12820- 19849 3 52  733
5.02627+ 5 2.12935- 1 5.52227+ 5 2.13171- 1 6.00000+ 5 2.13982- 19849 3 52  734
7.00000+ 5 2.13140- 1 8.00000+ 5 2.08292- 1 9.00000+ 5 2.02077- 19849 3 52  735
1.00000+ 6 1.90882- 1 1.50000+ 6 1.00681- 1 2.00000+ 6 3.50335- 29849 3 52  736
2.25000+ 6 1.92662- 2 2.50000+ 6 1.04920- 2 2.75000+ 6 5.73257- 39849 3 52  737
3.00000+ 6 3.14549- 3 3.50000+ 6 1.02088- 3 4.00000+ 6 3.33548- 49849 3 52  738
4.50000+ 6 1.19337- 4 5.00000+ 6 4.26100- 5 5.61570+ 6 1.32180- 59849 3 52  739
6.00000+ 6 5.28935- 6 7.00000+ 6 2.58781- 7 8.00000+ 6 1.17968- 89849 3 52  740
9.00000+ 6 5.93604-10 1.00000+ 7 3.39787-11 1.20000+ 7 3.25359-139849 3 52  741
1.26230+ 7 6.07369-14 1.40000+ 7 3.14524-15 1.60000+ 7 2.54821-169849 3 52  742
1.80000+ 7 2.49675-17 1.86650+ 7 2.57682-17 2.00000+ 7 5.26811-189849 3 52  743
                                                                 9849 3  0  744
9.82490+ 4 2.46935+ 2          0          3          0          09849 3 53  745
0.0     + 0-1.45000+ 5         0          0          1         449849 3 53  746
        44          3          0          0          0          09849 3 53  747
1.45587+ 5 0.0     + 0 1.88761+ 5 4.85629- 2 2.00000+ 5 5.31187- 29849 3 53  748
2.19887+ 5 5.98135- 2 2.44084+ 5 6.56986- 2 3.00000+ 5 7.17866- 29849 3 53  749
3.81037+ 5 7.75888- 2 4.00000+ 5 7.72599- 2 4.18287+ 5 7.77957- 29849 3 53  750
4.39272+ 5 7.84180- 2 4.41782+ 5 7.83906- 2 4.44794+ 5 7.82588- 29849 3 53  751
4.61863+ 5 7.68975- 2 5.00000+ 5 7.39367- 2 5.02627+ 5 7.37762- 29849 3 53  752
5.52227+ 5 7.08406- 2 6.00000+ 5 6.93441- 2 7.00000+ 5 6.71340- 29849 3 53  753
8.00000+ 5 6.44474- 2 9.00000+ 5 6.15101- 2 1.00000+ 6 5.71406- 29849 3 53  754
1.50000+ 6 2.86859- 2 2.00000+ 6 1.07037- 2 2.25000+ 6 6.34391- 39849 3 53  755
2.50000+ 6 3.78196- 3 2.75000+ 6 2.27838- 3 3.00000+ 6 1.37801- 39849 3 53  756
3.50000+ 6 5.31527- 4 4.00000+ 6 1.96788- 4 4.50000+ 6 7.59300- 59849 3 53  757
5.00000+ 6 2.79881- 5 5.61570+ 6 8.64964- 6 6.00000+ 6 3.41782- 69849 3 53  758
7.00000+ 6 1.62070- 7 8.00000+ 6 7.28266- 9 9.00000+ 6 3.68203-109849 3 53  759
1.00000+ 7 2.12509-11 1.20000+ 7 2.02016-13 1.26230+ 7 3.74757-149849 3 53  760
1.40000+ 7 1.90938-15 1.60000+ 7 1.50854-16 1.80000+ 7 1.44371-179849 3 53  761
1.86650+ 7 1.47897-17 2.00000+ 7 2.98078-18                      9849 3 53  762
                                                                 9849 3  0  763
9.82490+ 4 2.46935+ 2          0          4          0          09849 3 54  764
0.0     + 0-1.88000+ 5         0          0          1         439849 3 54  765
        43          3          0          0          0          09849 3 54  766
1.88761+ 5 0.0     + 0 2.00000+ 5 4.27508- 2 2.19887+ 5 7.68249- 29849 3 54  767
2.44084+ 5 1.04980- 1 3.00000+ 5 1.32774- 1 3.81037+ 5 1.45856- 19849 3 54  768
4.00000+ 5 1.44845- 1 4.18287+ 5 1.44943- 1 4.39272+ 5 1.45109- 19849 3 54  769
4.41782+ 5 1.44728- 1 4.44794+ 5 1.44456- 1 4.61863+ 5 1.41334- 19849 3 54  770
5.00000+ 5 1.35453- 1 5.02627+ 5 1.35030- 1 5.52227+ 5 1.26523- 19849 3 54  771
6.00000+ 5 1.21110- 1 7.00000+ 5 1.12507- 1 8.00000+ 5 1.04317- 19849 3 54  772
9.00000+ 5 9.66309- 2 1.00000+ 6 8.74843- 2 1.50000+ 6 4.05681- 29849 3 54  773
2.00000+ 6 1.45607- 2 2.25000+ 6 8.49946- 3 2.50000+ 6 4.99745- 39849 3 54  774
2.75000+ 6 2.97337- 3 3.00000+ 6 1.77905- 3 3.50000+ 6 6.75334- 49849 3 54  775
4.00000+ 6 2.47647- 4 4.50000+ 6 9.49410- 5 5.00000+ 6 3.48179- 59849 3 54  776
5.61570+ 6 1.07167- 5 6.00000+ 6 4.22841- 6 7.00000+ 6 2.00115- 79849 3 54  777
8.00000+ 6 8.99367- 9 9.00000+ 6 4.55812-10 1.00000+ 7 2.64046-119849 3 54  778
1.20000+ 7 2.52707-13 1.26230+ 7 4.69531-14 1.40000+ 7 2.40047-159849 3 54  779
1.60000+ 7 1.90600-16 1.80000+ 7 1.83223-17 1.86650+ 7 1.87947-179849 3 54  780
2.00000+ 7 3.79751-18                                            9849 3 54  781
                                                                 9849 3  0  782
9.82490+ 4 2.46935+ 2          0          5          0          09849 3 55  783
0.0     + 0-2.19000+ 5         0          0          1         419849 3 55  784
        41          3          0          0          0          09849 3 55  785
2.19887+ 5 0.0     + 0 2.44084+ 5 1.01869- 2 3.00000+ 5 3.23921- 29849 3 55  786
3.81037+ 5 5.33615- 2 4.00000+ 5 5.71434- 2 4.18287+ 5 6.08719- 29849 3 55  787
4.39272+ 5 6.49495- 2 4.41782+ 5 6.54189- 2 4.44794+ 5 6.59848- 29849 3 55  788
4.61863+ 5 6.91426- 2 5.00000+ 5 7.60980- 2 5.02627+ 5 7.65174- 29849 3 55  789
5.52227+ 5 8.41488- 2 6.00000+ 5 9.09041- 2 7.00000+ 5 1.02270- 19849 3 55  790
8.00000+ 5 1.09627- 1 9.00000+ 5 1.14381- 1 1.00000+ 6 1.14408- 19849 3 55  791
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1.50000+ 6 7.05973- 2 2.00000+ 6 2.61598- 2 2.25000+ 6 1.46730- 29849 3 55  792
2.50000+ 6 8.13219- 3 2.75000+ 6 4.51711- 3 3.00000+ 6 2.51871- 39849 3 55  793
3.50000+ 6 8.43305- 4 4.00000+ 6 2.83610- 4 4.50000+ 6 1.04044- 49849 3 55  794
5.00000+ 6 3.79307- 5 5.61570+ 6 1.20109- 5 6.00000+ 6 4.85421- 69849 3 55  795
7.00000+ 6 2.41360- 7 8.00000+ 6 1.11161- 8 9.00000+ 6 5.64751-109849 3 55  796
1.00000+ 7 3.26270-11 1.20000+ 7 3.17345-13 1.26230+ 7 5.94829-149849 3 55  797
1.40000+ 7 3.10797-15 1.60000+ 7 2.54833-16 1.80000+ 7 2.52239-179849 3 55  798
1.86650+ 7 2.61131-17 2.00000+ 7 5.37022-18                         9849 3 55  799
                                                                    9849 3  0  800
9.82490+ 4 2.46935+ 2          0          6          0          09849 3 56  801
0.0     + 0-2.43100+ 5         0          0          1         409849 3 56  802
         40          3         0          0          0          09849 3 56  803
2.44084+ 5 0.0     + 0 3.00000+ 5 1.00890- 1 3.81037+ 5 1.47424- 19849 3 56  804
4.00000+ 5 1.51516- 1 4.18287+ 5 1.55545- 1 4.39272+ 5 1.59220- 19849 3 56  805
4.41782+ 5 1.59037- 1 4.44794+ 5 1.59140- 1 4.61863+ 5 1.58584- 19849 3 56  806
5.00000+ 5 1.57024- 1 5.02627+ 5 1.56820- 1 5.52227+ 5 1.49817- 19849 3 56  807
6.00000+ 5 1.44962- 1 7.00000+ 5 1.35936- 1 8.00000+ 5 1.26003- 19849 3 56  808
9.00000+ 5 1.16210- 1 1.00000+ 6 1.04579- 1 1.50000+ 6 4.74367- 29849 3 56  809
2.00000+ 6 1.68543- 2 2.25000+ 6 9.79275- 3 2.50000+ 6 5.73197- 39849 3 56  810
2.75000+ 6 3.39616- 3 3.00000+ 6 2.02502- 3 3.50000+ 6 7.65602- 49849 3 56  811
4.00000+ 6 2.80519- 4 4.50000+ 6 1.07507- 4 5.00000+ 6 3.93784- 59849 3 56  812
5.61570+ 6 1.21009- 5 6.00000+ 6 4.77217- 6 7.00000+ 6 2.25663- 79849 3 56  813
8.00000+ 6 1.01531- 8 9.00000+ 6 5.16306-10 1.00000+ 7 3.00382-119849 3 56  814
1.20000+ 7 2.89564-13 1.26230+ 7 5.38941-14 1.40000+ 7 2.76689-159849 3 56  815
1.60000+ 7 2.21124-16 1.80000+ 7 2.13838-17 1.86650+ 7 2.19753-179849 3 56  816
2.00000+ 7 4.45568-18                                               9849 3 56  817
                                                                    9849 3  0  818
9.82490+ 4 2.46935+ 2          0          7          0          09849 3 57  819
0.0     + 0-3.79500+ 5         0          0          1         389849 3 57  820
         38          3         0          0          0          09849 3 57  821
3.81037+ 5 0.0     + 0 4.00000+ 5 2.48153- 2 4.18287+ 5 3.67440- 29849 3 57  822
4.39272+ 5 4.77549- 2 4.41782+ 5 4.87527- 2 4.44794+ 5 5.00203- 29849 3 57  823
4.61863+ 5 5.55677- 2 5.00000+ 5 6.45419- 2 5.02627+ 5 6.50243- 29849 3 57  824
5.52227+ 5 7.03146- 2 6.00000+ 5 7.33726- 2 7.00000+ 5 7.60400- 29849 3 57  825
8.00000+ 5 7.53381- 2 9.00000+ 5 7.30657- 2 1.00000+ 6 6.84757- 29849 3 57  826
1.50000+ 6 3.52376- 2 2.00000+ 6 1.32958- 2 2.25000+ 6 7.86884- 39849 3 57  827
2.50000+ 6 4.66585- 3 2.75000+ 6 2.79167- 3 3.00000+ 6 1.67712- 39849 3 57  828
3.50000+ 6 6.40661- 4 4.00000+ 6 2.36222- 4 4.50000+ 6 9.09686- 59849 3 57  829
5.00000+ 6 3.34955- 5 5.61570+ 6 1.03705- 5 6.00000+ 6 4.10916- 69849 3 57  830
7.00000+ 6 1.95739- 7 8.00000+ 6 8.80608- 9 9.00000+ 6 4.46462-109849 3 57  831
1.00000+ 7 2.59072-11 1.20000+ 7 2.49278-13 1.26230+ 7 4.63378-149849 3 57  832
1.40000+ 7 2.37149-15 1.60000+ 7 1.88638-16 1.80000+ 7 1.81664-179849 3 57  833
1.86650+ 7 1.86431-17 2.00000+ 7 3.77012-18                         9849 3 57  834
                                                                    9849 3  0  835
9.82490+ 4 2.46935+ 2          0          8          0          09849 3 58  836
0.0     + 0-4.16600+ 5         0          0          1         369849 3 58  837
         36          3         0          0          0          09849 3 58  838
4.18287+ 5 0.0     + 0 4.39272+ 5 8.30462- 4 4.41782+ 5 8.86197- 49849 3 58  839
4.44794+ 5 9.05415- 4 4.61863+ 5 1.18978- 3 5.00000+ 5 1.76999- 39849 3 58  840
5.02627+ 5 1.80638- 3 5.52227+ 5 2.49333- 3 6.00000+ 5 3.14441- 39849 3 58  841
7.00000+ 5 4.42640- 3 8.00000+ 5 5.50171- 3 9.00000+ 5 6.36050- 39849 3 58  842
1.00000+ 6 6.86885- 3 1.50000+ 6 5.41679- 3 2.00000+ 6 2.49207- 39849 3 58  843
2.25000+ 6 1.58150- 3 2.50000+ 6 9.95902- 4 2.75000+ 6 6.28411- 49849 3 58  844
3.00000+ 6 3.95381- 4 3.50000+ 6 1.62216- 4 4.00000+ 6 6.26459- 59849 3 58  845
4.50000+ 6 2.48678- 5 5.00000+ 6 9.35720- 6 5.61570+ 6 2.95171- 69849 3 58  846
6.00000+ 6 1.17928- 6 7.00000+ 6 5.68631- 8 8.00000+ 6 2.56228- 99849 3 58  847
9.00000+ 6 1.29188-10 1.00000+ 7 7.43493-12 1.20000+ 7 7.06073-149849 3 58  848
1.26230+ 7 1.30798-14 1.40000+ 7 6.64777-16 1.60000+ 7 5.23985-179849 3 58  849
1.80000+ 7 5.00633-18 1.86650+ 7 5.12511-18 2.00000+ 7 1.03160-189849 3 58  850
                                                                    9849 3  0  851
9.82490+ 4 2.46935+ 2          0          9          0          09849 3 59  852
0.0     + 0-4.37500+ 5         0          0          1         359849 3 59  853
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4.39272+ 5 0.0     + 0 4.41782+ 5 8.68829- 3 4.44794+ 5 1.30324- 29849 3 59  855
4.61863+ 5 2.84445- 2 5.00000+ 5 5.16272- 2 5.02627+ 5 5.28709- 29849 3 59  856
5.52227+ 5 6.94269- 2 6.00000+ 5 7.90253- 2 7.00000+ 5 8.84522- 29849 3 59  857
8.00000+ 5 8.97012- 2 9.00000+ 5 8.74549- 2 1.00000+ 6 8.17820- 29849 3 59  858
1.50000+ 6 4.11629- 2 2.00000+ 6 1.53874- 2 2.25000+ 6 9.07585- 39849 3 59  859
2.50000+ 6 5.36126- 3 2.75000+ 6 3.19603- 3 3.00000+ 6 1.91373- 39849 3 59  860
3.50000+ 6 7.27833- 4 4.00000+ 6 2.68033- 4 4.50000+ 6 1.03160- 49849 3 59  861
5.00000+ 6 3.79257- 5 5.61570+ 6 1.17166- 5 6.00000+ 6 4.63828- 69849 3 59  862
7.00000+ 6 2.20698- 7 8.00000+ 6 9.93916- 9 9.00000+ 6 5.05568-109849 3 59  863
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1.40000+ 7 2.73261-15 1.60000+ 7 2.18776-16 1.80000+ 7 2.11957-179849 3 59  865
1.86650+ 7 2.17920-17 2.00000+ 7 4.42243-18                        9849 3 59  866
                                                                   9849 3  0  867
9.82490+ 4 2.46935+ 2          0          10          0          09849 3 60  868
0.0     + 0-4.40000+ 5         0           0          1         349849 3 60  869
         34          3         0           0          0          09849 3 60  870
4.41782+ 5 0.0     + 0 4.44794+ 5 7.54813- 4 4.61863+ 5 2.04353- 39849 3 60  871
5.00000+ 5 4.07675- 3 5.02627+ 5 4.20496- 3 5.52227+ 5 6.45710- 39849 3 60  872
6.00000+ 5 8.41257- 3 7.00000+ 5 1.19868- 2 8.00000+ 5 1.47035- 29849 3 60  873
9.00000+ 5 1.66611- 2 1.00000+ 6 1.75961- 2 1.50000+ 6 1.26623- 29849 3 60  874
2.00000+ 6 5.52224- 3 2.25000+ 6 3.42835- 3 2.50000+ 6 2.11526- 39849 3 60  875
2.75000+ 6 1.31015- 3 3.00000+ 6 8.10964- 4 3.50000+ 6 3.24519- 49849 3 60  876
4.00000+ 6 1.23404- 4 4.50000+ 6 4.85432- 5 5.00000+ 6 1.81688- 59849 3 60  877
5.61570+ 6 5.71272- 6 6.00000+ 6 2.28032- 6 7.00000+ 6 1.09850- 79849 3 60  878
8.00000+ 6 4.95114- 9 9.00000+ 6 2.50026-10 1.00000+ 7 1.44230-119849 3 60  879
1.20000+ 7 1.37556-13 1.26230+ 7 2.55068-14 1.40000+ 7 1.29870-159849 3 60  880
1.60000+ 7 1.02574-16 1.80000+ 7 9.81691-18 1.86650+ 7 1.00551-179849 3 60  881
2.00000+ 7 2.02596-18                                              9849 3 60  882
                                                                   9849 3  0  883
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0.0     + 0-4.43000+ 5         0           0          1         339849 3 61  885
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4.44794+ 5 0.0     + 0 4.61863+ 5 1.85894- 2 5.00000+ 5 3.57946- 29849 3 61  887
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                                                                   9849 3  0  913
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1.80000+ 7 2.11341-17 1.86650+ 7 2.17320-17 2.00000+ 7 4.41155-189849 3 63  926
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9.82490+ 4 2.46935+ 2          0          98          0          09849 3 91  928
0.0     + 0-5.50000+ 5         0           0          1         299849 3 91  929
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5.52227+ 5 0.0     + 0 6.00000+ 5 1.26423- 2 7.00000+ 5 9.54195- 29849 3 91  931
8.00000+ 5 2.25632- 1 9.00000+ 5 3.79742- 1 1.00000+ 6 5.39098- 19849 3 91  932
1.50000+ 6 1.09101+ 0 2.00000+ 6 1.17265+ 0 2.25000+ 6 1.13418+ 09849 3 91  933
2.50000+ 6 1.09062+ 0 2.75000+ 6 1.05319+ 0 3.00000+ 6 1.01817+ 09849 3 91  934
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1.40000+ 7 6.56420- 5 1.60000+ 7 5.81148- 5 1.80000+ 7 5.44545- 59849 3 91  939
1.86650+ 7 1.16109- 4 2.00000+ 7 9.84358- 5                      9849 3 91  940
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1.60000+ 7 1.99805-10 1.80000+ 7 1.42177-10 1.86650+ 7 2.80736-109849 3102  962
2.00000+ 7 2.08271-10                                            9849 3102  963
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        55          3          0           0          0         09849 3251  967
1.00000- 5 2.69976- 3 1.00000+ 3 3.45843- 3 1.00000+ 4 1.23934- 29849 3251  968
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                                                                 9849 3  0  987
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          2          2          0          0          0         09849 4 37 1285
-1.00000+ 0 5.00000- 1 1.00000+ 0 5.00000- 1                     9849 4 37 1286
 0.0    + 0 2.00000+ 7          0          0          1         29849 4 37 1287
          2          2          0          0          0         09849 4 37 1288
-1.00000+ 0 5.00000- 1 1.00000+ 0 5.00000- 1                     9849 4 37 1289
                                                                 9849 4  0 1290
 9.82490+ 4 2.46935+ 2          0          1          0         09849 4 51 1291
 0.0    + 0 2.46935+ 2          0          2          0         09849 4 51 1292
 0.0    + 0 0.0    + 0          0          0          1         49849 4 51 1293
          4          2          0          0          0         09849 4 51 1294
 0.0    + 0 6.27531+ 4          0          0          2         09849 4 51 1295
```

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0.0     + 0 0.0     + 0                                                  9849 4 51 1296
0.0     + 0 8.00000+ 6          0          0          18              09849 4 51 1297
0.0     + 0 2.60094- 2 0.0    + 0 3.23356- 3 0.0    + 0 3.41852- 49849 4 51 1298
0.0     + 0-8.15969- 5 0.0    + 0-7.87082- 5 0.0    + 0-3.38733- 59849 4 51 1299
0.0     + 0-2.93963- 6 0.0    + 0-3.62359- 8 0.0    + 0-5.60657- 99849 4 51 1300
0.0     + 0 1.40000+ 7          0          0          20              09849 4 51 1301
0.0     + 0 3.18652- 2 0.0    + 0 4.61675- 3 0.0    + 0 8.96217- 49849 4 51 1302
0.0     + 0 1.27017- 4 0.0    + 0-3.95474- 5 0.0    + 0-5.49808- 59849 4 51 1303
0.0     + 0-3.13185- 5 0.0    + 0-7.63107- 6 0.0    + 0-8.73980- 79849 4 51 1304
0.0     + 0-1.13647- 7                                                   9849 4 51 1305
0.0     + 0 2.00000+ 7          0          0          20              09849 4 51 1306
0.0     + 0 4.26152- 2 0.0    + 0 4.95704- 3 0.0    + 0 1.63857- 39849 4 51 1307
0.0     + 0 3.06854- 4 0.0    + 0 5.40940- 5 0.0    + 0-2.15420- 59849 4 51 1308
0.0     + 0-3.55095- 5 0.0    + 0-2.28578- 5 0.0    + 0-9.24044- 69849 4 51 1309
0.0     + 0-2.43325- 6                                                   9849 4 51 1310
                                                                         9849 4  0 1311
9.82490+ 4 2.46935+ 2          0          1           0              09849 4 52 1312
0.0     + 0 2.46935+ 2          0          2           0              09849 4 52 1313
0.0     + 0 0.0     + 0          0          0           1              49849 4 52 1314
          4           2          0          0           0              09849 4 52 1315
0.0     + 0 1.36752+ 5          0          0           2              09849 4 52 1316
0.0     + 0 0.0     + 0                                                  9849 4 52 1317
0.0     + 0 8.00000+ 6          0          0          18              09849 4 52 1318
0.0     + 0 1.30800- 2 0.0    + 0-1.70748- 3 0.0    + 0-1.24267- 39849 4 52 1319
0.0     + 0-4.45819- 4 0.0    + 0-8.96458- 5 0.0    + 0 6.31431- 69849 4 52 1320
0.0     + 0 1.21161- 6 0.0    + 0 1.25251- 8 0.0    + 0 3.15398- 99849 4 52 1321
0.0     + 0 1.40000+ 7          0          0          20              09849 4 52 1322
0.0     + 0 1.99673- 2 0.0    + 0 4.43032- 4 0.0    + 0-9.79760- 49849 4 52 1323
0.0     + 0-5.83679- 4 0.0    + 0-2.52063- 4 0.0    + 0-7.00255- 59849 4 52 1324
0.0     + 0-3.45568- 6 0.0    + 0 2.02576- 6 0.0    + 0 3.42883- 79849 4 52 1325
0.0     + 0 6.36336- 8                                                   9849 4 52 1326
0.0     + 0 2.00000+ 7          0          0          20              09849 4 52 1327
0.0     + 0 2.92892- 2 0.0    + 0 1.48219- 3 0.0    + 0-4.05545- 49849 4 52 1328
0.0     + 0-5.87450- 4 0.0    + 0-3.25407- 4 0.0    + 0-1.60093- 49849 4 52 1329
0.0     + 0-5.46826- 5 0.0    + 0-9.41156- 6 0.0    + 0 8.09351- 79849 4 52 1330
0.0     + 0 9.29242- 7                                                   9849 4 52 1331
                                                                         9849 4  0 1332
9.82490+ 4 2.46935+ 2          0          1           0              09849 4 53 1333
0.0     + 0 2.46935+ 2          0          2           0              09849 4 53 1334
0.0     + 0 0.0     + 0          0          0           1              49849 4 53 1335
          4           2          0          0           0              09849 4 53 1336
0.0     + 0 1.45587+ 5          0          0           2              09849 4 53 1337
0.0     + 0 0.0     + 0                                                  9849 4 53 1338
0.0     + 0 8.00000+ 6          0          0          18              09849 4 53 1339
0.0     + 0 1.57556- 2 0.0    + 0-2.31454- 3 0.0    + 0-1.15733- 39849 4 53 1340
0.0     + 0-4.71825- 4 0.0    + 0-9.04425- 5 0.0    + 0-2.11993- 59849 4 53 1341
0.0     + 0 4.83756- 8 0.0    + 0-2.38716- 8 0.0    + 0-1.34529-109849 4 53 1342
0.0     + 0 1.40000+ 7          0          0          20              09849 4 53 1343
0.0     + 0 4.32189- 2 0.0    + 0-1.90454- 3 0.0    + 0-1.13845- 39849 4 53 1344
0.0     + 0-7.24798- 4 0.0    + 0-3.88532- 4 0.0    + 0-1.09860- 49849 4 53 1345
0.0     + 0-2.91060- 5 0.0    + 0-2.19456- 6 0.0    + 0-4.80372- 79849 4 53 1346
0.0     + 0-1.81891- 8                                                   9849 4 53 1347
0.0     + 0 2.00000+ 7          0          0          20              09849 4 53 1348
0.0     + 0 6.71337- 2 0.0    + 0 1.32187- 3 0.0    + 0-1.65638- 39849 4 53 1349
0.0     + 0-6.40957- 4 0.0    + 0-4.88074- 4 0.0    + 0-2.90159- 49849 4 53 1350
0.0     + 0-9.95396- 5 0.0    + 0-2.42028- 5 0.0    + 0-5.01526- 69849 4 53 1351
0.0     + 0-1.05868- 6                                                   9849 4 53 1352
                                                                         9849 4  0 1353
9.82490+ 4 2.46935+ 2          0          1           0              09849 4 54 1354
0.0     + 0 2.46935+ 2          0          2           0              09849 4 54 1355
0.0     + 0 0.0     + 0          0          0           1              49849 4 54 1356
          4           2          0          0           0              09849 4 54 1357
0.0     + 0 1.88761+ 5          0          0           2              09849 4 54 1358
0.0     + 0 0.0     + 0                                                  9849 4 54 1359
0.0     + 0 8.00000+ 6          0          0          18              09849 4 54 1360
0.0     + 0 2.58368- 2 0.0    + 0 3.06094- 3 0.0    + 0 3.48948- 49849 4 54 1361
0.0     + 0-3.00806- 5 0.0    + 0-3.26204- 5 0.0    + 0-4.07644- 69849 4 54 1362
0.0     + 0-1.02668- 6 0.0    + 0 1.42441- 9 0.0    + 0-8.05021-119849 4 54 1363
0.0     + 0 1.40000+ 7          0          0          20              09849 4 54 1364
0.0     + 0 4.27565- 2 0.0    + 0 3.98498- 3 0.0    + 0 1.29769- 39849 4 54 1365
0.0     + 0 1.61539- 4 0.0    + 0-1.83729- 5 0.0    + 0-2.86436- 59849 4 54 1366
0.0     + 0-1.23436- 5 0.0    + 0-3.65701- 6 0.0    + 0-5.96074- 89849 4 54 1367
```

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0.0     + 0-4.24320- 9                                                  9849 4 54 1368
0.0     + 0 2.00000+ 7          0          0          20              09849 4 54 1369
0.0     + 0 6.18712- 2 0.0    + 0 5.10637- 3 0.0    + 0 1.65778- 39849 4 54 1370
0.0     + 0 6.09110- 4 0.0    + 0 5.09918- 5 0.0    + 0-2.04712- 59849 4 54 1371
0.0     + 0-2.27948- 5 0.0    + 0-1.67014- 5 0.0    + 0-5.45003- 69849 4 54 1372
0.0     + 0-5.97583- 7                                                  9849 4 54 1373
                                                                        9849 4  0 1374
9.82490+ 4 2.46935+ 2          0          1           0              09849 4 55 1375
0.0     + 0 2.46935+ 2          0          2           0              09849 4 55 1376
0.0     + 0 0.0     + 0         0          0           1              49849 4 55 1377
          4         2           0          0           0              09849 4 55 1378
0.0     + 0 2.19887+ 5          0          0           2              09849 4 55 1379
0.0     + 0 0.0     + 0                                                 9849 4 55 1380
0.0     + 0 8.00000+ 6          0          0          18              09849 4 55 1381
0.0     + 0-3.31726- 3 0.0    + 0-4.84583- 3 0.0    + 0-9.90091- 49849 4 55 1382
0.0     + 0 8.54012- 5 0.0    + 0 1.24171- 4 0.0    + 0 1.62781- 59849 4 55 1383
0.0     + 0 4.33025- 7 0.0    + 0 8.26870- 9 0.0    + 0-3.72359-109849 4 55 1384
0.0     + 0 1.40000+ 7          0          0          20              09849 4 55 1385
0.0     + 0 6.20792- 3 0.0    + 0-3.39682- 3 0.0    + 0-1.62775- 39849 4 55 1386
0.0     + 0-3.71322- 4 0.0    + 0 2.78968- 5 0.0    + 0 6.81411- 59849 4 55 1387
0.0     + 0 2.02796- 5 0.0    + 0 2.15082- 6 0.0    + 0 1.28565- 79849 4 55 1388
0.0     + 0-1.02616- 8                                                  9849 4 55 1389
0.0     + 0 2.00000+ 7          0          0          20              09849 4 55 1390
0.0     + 0 1.51864- 2 0.0    + 0-2.15122- 3 0.0    + 0-1.69026- 39849 4 55 1391
0.0     + 0-6.93057- 4 0.0    + 0-1.62882- 4 0.0    + 0 1.66015- 59849 4 55 1392
0.0     + 0 4.22101- 5 0.0    + 0 1.93607- 5 0.0    + 0 4.36830- 69849 4 55 1393
0.0     + 0 3.40995- 7                                                  9849 4 55 1394
                                                                        9849 4  0 1395
9.82490+ 4 2.46935+ 2          0          1           0              09849 4 56 1396
0.0     + 0 2.46935+ 2          0          2           0              09849 4 56 1397
0.0     + 0 0.0     + 0         0          0           1              49849 4 56 1398
          4         2           0          0           0              09849 4 56 1399
0.0     + 0 2.44084+ 5          0          0           2              09849 4 56 1400
0.0     + 0 0.0     + 0                                                 9849 4 56 1401
0.0     + 0 8.00000+ 6          0          0          18              09849 4 56 1402
0.0     + 0 2.94642- 2 0.0    + 0 5.24629- 3 0.0    + 0 1.33772- 39849 4 56 1403
0.0     + 0 4.10776- 4 0.0    + 0 1.03251- 4 0.0    + 0 1.41650- 59849 4 56 1404
0.0     + 0 1.33958- 6 0.0    + 0 7.25683- 9 0.0    + 0 1.24469-109849 4 56 1405
0.0     + 0 1.40000+ 7          0          0          20              09849 4 56 1406
0.0     + 0 3.91759- 2 0.0    + 0 6.34594- 3 0.0    + 0 2.15672- 39849 4 56 1407
0.0     + 0 7.28888- 4 0.0    + 0 3.08117- 4 0.0    + 0 1.06168- 49849 4 56 1408
0.0     + 0 2.91441- 5 0.0    + 0 5.58031- 6 0.0    + 0 2.61713- 79849 4 56 1409
0.0     + 0 1.28349- 8                                                  9849 4 56 1410
0.0     + 0 2.00000+ 7          0          0          20              09849 4 56 1411
0.0     + 0 5.36073- 2 0.0    + 0 6.56319- 3 0.0    + 0 2.83687- 39849 4 56 1412
0.0     + 0 1.06424- 3 0.0    + 0 4.37920- 4 0.0    + 0 2.20329- 49849 4 56 1413
0.0     + 0 9.19225- 5 0.0    + 0 3.29273- 5 0.0    + 0 8.64268- 69849 4 56 1414
0.0     + 0 1.14924- 6                                                  9849 4 56 1415
                                                                        9849 4  0 1416
9.82490+ 4 2.46935+ 2          0          1           0              09849 4 57 1417
0.0     + 0 2.46935+ 2          0          2           0              09849 4 57 1418
0.0     + 0 0.0     + 0         0          0           1              49849 4 57 1419
          4         2           0          0           0              09849 4 57 1420
0.0     + 0 3.81037+ 5          0          0           2              09849 4 57 1421
0.0     + 0 0.0     + 0                                                 9849 4 57 1422
0.0     + 0 8.00000+ 6          0          0          18              09849 4 57 1423
0.0     + 0 2.54405- 2 0.0    + 0 3.00471- 3 0.0    + 0 3.26293- 49849 4 57 1424
0.0     + 0-3.34975- 5 0.0    + 0-3.20226- 5 0.0    + 0-4.13274- 69849 4 57 1425
0.0     + 0-8.93897- 7 0.0    + 0 1.25040- 9 0.0    + 0-6.83661-119849 4 57 1426
0.0     + 0 1.40000+ 7          0          0          20              09849 4 57 1427
0.0     + 0 4.23651- 2 0.0    + 0 3.96084- 3 0.0    + 0 1.27840- 39849 4 57 1428
0.0     + 0 1.53911- 4 0.0    + 0-2.00811- 5 0.0    + 0-2.88761- 59849 4 57 1429
0.0     + 0-1.21446- 5 0.0    + 0-3.43730- 6 0.0    + 0-5.34553- 89849 4 57 1430
0.0     + 0-3.92130- 9                                                  9849 4 57 1431
0.0     + 0 2.00000+ 7          0          0          20              09849 4 57 1432
0.0     + 0 6.15096- 2 0.0    + 0 5.05694- 3 0.0    + 0 1.65364- 39849 4 57 1433
0.0     + 0 5.98919- 4 0.0    + 0 4.77725- 5 0.0    + 0-2.09702- 59849 4 57 1434
0.0     + 0-2.30618- 5 0.0    + 0-1.65914- 5 0.0    + 0-5.26989- 69849 4 57 1435
0.0     + 0-5.63980- 7                                                  9849 4 57 1436
                                                                        9849 4  0 1437
9.82490+ 4 2.46935+ 2          0          1           0              09849 4 58 1438
0.0     + 0 2.46935+ 2          0          2           0              09849 4 58 1439
```

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0.0     + 0 0.0     + 0          0           0           1           49849 4 58 1440
          4           2          0           0           0           09849 4 58 1441
0.0     + 0 4.18287+ 5           0           0           2           09849 4 58 1442
0.0     + 0 0.0     + 0                                               9849 4 58 1443
0.0     + 0 8.00000+ 6           0           0          18           09849 4 58 1444
0.0     + 0-4.61159- 3 0.0     + 0-1.10423- 2 0.0     + 0 5.61256- 49849 4 58 1445
0.0     + 0 7.39639- 4 0.0     + 0-4.77602- 6 0.0     + 0-5.67139- 59849 4 58 1446
0.0     + 0-1.63755- 6 0.0     + 0-5.75671- 8 0.0     + 0-5.28328-109849 4 58 1447
0.0     + 0 1.40000+ 7           0           0          20           09849 4 58 1448
0.0     + 0 4.13910- 2 0.0     + 0-1.35758- 2 0.0     + 0-5.13010- 39849 4 58 1449
0.0     + 0 7.44173- 4 0.0     + 0 7.96570- 4 0.0     + 0 3.85416- 59849 4 58 1450
0.0     + 0-7.91873- 5 0.0     + 0-1.31934- 5 0.0     + 0-1.52587- 69849 4 58 1451
0.0     + 0-5.92152- 8                                                9849 4 58 1452
0.0     + 0 2.00000+ 7           0           0          20           09849 4 58 1453
0.0     + 0 7.15244- 2 0.0     + 0-5.92338- 3 0.0     + 0-8.19531- 39849 4 58 1454
0.0     + 0-1.96967- 3 0.0     + 0 7.41248- 4 0.0     + 0 6.08929- 49849 4 58 1455
0.0     + 0 6.86782- 5 0.0     + 0-6.06477- 5 0.0     + 0-2.59650- 59849 4 58 1456
0.0     + 0-4.63900- 6                                                9849 4 58 1457
                                                                      9849 4  0 1458
9.82490+ 4 2.46935+ 2           0           1           0           09849 4 59 1459
0.0     + 0 2.46935+ 2           0           2           0           09849 4 59 1460
0.0     + 0 0.0     + 0          0           0           1           49849 4 59 1461
          4           2          0           0           0           09849 4 59 1462
0.0     + 0 4.39272+ 5           0           0           2           09849 4 59 1463
0.0     + 0 0.0     + 0                                               9849 4 59 1464
0.0     + 0 8.00000+ 6           0           0          18           09849 4 59 1465
0.0     + 0 2.92414- 2 0.0     + 0 5.19568- 3 0.0     + 0 1.31968- 39849 4 59 1466
0.0     + 0 4.01212- 4 0.0     + 0 9.89495- 5 0.0     + 0 1.33059- 59849 4 59 1467
0.0     + 0 1.16147- 6 0.0     + 0 6.15125- 9 0.0     + 0 1.05155-109849 4 59 1468
0.0     + 0 1.40000+ 7           0           0          20           09849 4 59 1469
0.0     + 0 3.89083- 2 0.0     + 0 6.33590- 3 0.0     + 0 2.13916- 39849 4 59 1470
0.0     + 0 7.24013- 4 0.0     + 0 3.04708- 4 0.0     + 0 1.04040- 49849 4 59 1471
0.0     + 0 2.82344- 5 0.0     + 0 5.23988- 6 0.0     + 0 2.40009- 79849 4 59 1472
0.0     + 0 1.15430- 8                                                9849 4 59 1473
0.0     + 0 2.00000+ 7           0           0          20           09849 4 59 1474
0.0     + 0 5.33148- 2 0.0     + 0 6.54719- 3 0.0     + 0 2.82853- 39849 4 59 1475
0.0     + 0 1.05626- 3 0.0     + 0 4.35806- 4 0.0     + 0 2.18520- 49849 4 59 1476
0.0     + 0 9.06729- 5 0.0     + 0 3.23132- 5 0.0     + 0 8.34007- 69849 4 59 1477
0.0     + 0 1.08733- 6                                                9849 4 59 1478
                                                                      9849 4  0 1479
9.82490+ 4 2.46935+ 2           0           1           0           09849 4 60 1480
0.0     + 0 2.46935+ 2           0           2           0           09849 4 60 1481
0.0     + 0 0.0     + 0          0           0           1           49849 4 60 1482
          4           2          0           0           0           09849 4 60 1483
0.0     + 0 4.41782+ 5           0           0           2           09849 4 60 1484
0.0     + 0 0.0     + 0                                               9849 4 60 1485
0.0     + 0 8.00000+ 6           0           0          18           09849 4 60 1486
0.0     + 0 3.56731- 3 0.0     + 0-7.47420- 3 0.0     + 0-7.49757- 49849 4 60 1487
0.0     + 0 1.24593- 4 0.0     + 0 1.00722- 4 0.0     + 0 4.19952- 59849 4 60 1488
0.0     + 0 9.06539- 7 0.0     + 0 4.00538- 8 0.0     + 0 3.30630-109849 4 60 1489
0.0     + 0 1.40000+ 7           0           0          20           09849 4 60 1490
0.0     + 0 4.18508- 2 0.0     + 0-8.55102- 3 0.0     + 0-3.45422- 39849 4 60 1491
0.0     + 0-3.58399- 4 0.0     + 0 6.44162- 5 0.0     + 0 1.05786- 49849 4 60 1492
0.0     + 0 6.27710- 5 0.0     + 0 8.38631- 6 0.0     + 0 1.02878- 69849 4 60 1493
0.0     + 0 3.89459- 8                                                9849 4 60 1494
0.0     + 0 2.00000+ 7           0           0          20           09849 4 60 1495
0.0     + 0 6.97314- 2 0.0     + 0-2.90391- 3 0.0     + 0-5.34221- 39849 4 60 1496
0.0     + 0-1.52078- 3 0.0     + 0-1.20336- 4 0.0     + 0 6.50552- 59849 4 60 1497
0.0     + 0 8.42523- 5 0.0     + 0 5.35927- 5 0.0     + 0 1.68309- 59849 4 60 1498
0.0     + 0 2.97543- 6                                                9849 4 60 1499
                                                                      9849 4  0 1500
9.82490+ 4 2.46935+ 2           0           1           0           09849 4 61 1501
0.0     + 0 2.46935+ 2           0           2           0           09849 4 61 1502
0.0     + 0 0.0     + 0          0           0           1           49849 4 61 1503
          4           2          0           0           0           09849 4 61 1504
0.0     + 0 4.44794+ 5           0           0           2           09849 4 61 1505
0.0     + 0 0.0     + 0                                               9849 4 61 1506
0.0     + 0 8.00000+ 6           0           0          18           09849 4 61 1507
0.0     + 0 2.53123- 2 0.0     + 0 2.98610- 3 0.0     + 0 3.19108- 49849 4 61 1508
0.0     + 0-3.45220- 5 0.0     + 0-3.17586- 5 0.0     + 0-4.14679- 69849 4 61 1509
0.0     + 0-8.52388- 7 0.0     + 0 1.19068- 9 0.0     + 0-6.46360-119849 4 61 1510
0.0     + 0 1.40000+ 7           0           0          20           09849 4 61 1511
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 0.0     + 0 4.22359- 2 0.0     + 0 3.95279- 3 0.0     + 0 1.27197- 39849 4 61 1512
 0.0     + 0 1.51408- 4 0.0     + 0-2.06434- 5 0.0     + 0-2.89452- 59849 4 61 1513
 0.0     + 0-1.20797- 5 0.0     + 0-3.36466- 6 0.0     + 0-5.16074- 89849 4 61 1514
 0.0     + 0-3.81705- 9                                                 9849 4 61 1515
 0.0     + 0 2.00000+ 7           0           0          20           09849 4 61 1516
 0.0     + 0 6.13891- 2 0.0     + 0 5.04065- 3 0.0     + 0 1.65218- 39849 4 61 1517
 0.0     + 0 5.95509- 4 0.0     + 0 4.67171- 5 0.0     + 0-2.11372- 59849 4 61 1518
 0.0     + 0-2.31475- 5 0.0     + 0-1.65526- 5 0.0     + 0-5.20993- 69849 4 61 1519
 0.0     + 0-5.53221- 7                                                 9849 4 61 1520
                                                                        9849 4  0 1521
 9.82490+ 4 2.46935+ 2           0           1           0           09849 4 62 1522
 0.0     + 0 2.46935+ 2           0           2           0           09849 4 62 1523
 0.0     + 0 0.0    + 0           0           0           1           49849 4 62 1524
           4          2           0           0           0           09849 4 62 1525
 0.0     + 0 4.61863+ 5           0           0           2           09849 4 62 1526
 0.0     + 0 0.0    + 0                                                 9849 4 62 1527
 0.0     + 0 8.00000+ 6           0           0          18           09849 4 62 1528
 0.0     + 0 1.47214- 2 0.0     + 0-2.33937- 3 0.0     + 0-1.16643- 39849 4 62 1529
 0.0     + 0-4.51468- 4 0.0     + 0-8.62228- 5 0.0     + 0-1.85989- 59849 4 62 1530
 0.0     + 0 3.82317- 8 0.0     + 0-1.86261- 8 0.0     + 0-1.02691-109849 4 62 1531
 0.0     + 0 1.40000+ 7           0           0          20           09849 4 62 1532
 0.0     + 0 4.23653- 2 0.0     + 0-1.98976- 3 0.0     + 0-1.13142- 39849 4 62 1533
 0.0     + 0-7.30787- 4 0.0     + 0-3.79525- 4 0.0     + 0-1.05635- 49849 4 62 1534
 0.0     + 0-2.73343- 5 0.0     + 0-2.01889- 6 0.0     + 0-4.26722- 79849 4 62 1535
 0.0     + 0-1.49928- 8                                                 9849 4 62 1536
 0.0     + 0 2.00000+ 7           0           0          20           09849 4 62 1537
 0.0     + 0 6.64287- 2 0.0     + 0 1.16328- 3 0.0     + 0-1.65163- 39849 4 62 1538
 0.0     + 0-6.40740- 4 0.0     + 0-4.89954- 4 0.0     + 0-2.85461- 49849 4 62 1539
 0.0     + 0-9.63567- 5 0.0     + 0-2.30586- 5 0.0     + 0-4.75164- 69849 4 62 1540
 0.0     + 0-9.82435- 7                                                 9849 4 62 1541
                                                                        9849 4  0 1542
 9.82490+ 4 2.46935+ 2           0           1           0           09849 4 63 1543
 0.0     + 0 2.46935+ 2           0           2           0           09849 4 63 1544
 0.0     + 0 0.0    + 0           0           0           1           49849 4 63 1545
           4          2           0           0           0           09849 4 63 1546
 0.0     + 0 5.02627+ 5           0           0           2           09849 4 63 1547
 0.0     + 0 0.0    + 0                                                 9849 4 63 1548
 0.0     + 0 8.00000+ 6           0           0          18           09849 4 63 1549
 0.0     + 0 2.91699- 2 0.0     + 0 5.17904- 3 0.0     + 0 1.31371- 39849 4 63 1550
 0.0     + 0 3.98081- 4 0.0     + 0 9.75463- 5 0.0     + 0 1.30428- 59849 4 63 1551
 0.0     + 0 1.10721- 6 0.0     + 0 5.82535- 9 0.0     + 0 9.93589-119849 4 63 1552
 0.0     + 0 1.40000+ 7           0           0          20           09849 4 63 1553
 0.0     + 0 3.88220- 2 0.0     + 0 6.33250- 3 0.0     + 0 2.13344- 39849 4 63 1554
 0.0     + 0 7.22422- 4 0.0     + 0 3.03590- 4 0.0     + 0 1.03348- 49849 4 63 1555
 0.0     + 0 2.79426- 5 0.0     + 0 5.13052- 6 0.0     + 0 2.33316- 79849 4 63 1556
 0.0     + 0 1.11461- 8                                                 9849 4 63 1557
 0.0     + 0 2.00000+ 7           0           0          20           09849 4 63 1558
 0.0     + 0 5.32195- 2 0.0     + 0 6.54199- 3 0.0     + 0 2.82571- 39849 4 63 1559
 0.0     + 0 1.05365- 3 0.0     + 0 4.35108- 4 0.0     + 0 2.17922- 49849 4 63 1560
 0.0     + 0 9.02637- 5 0.0     + 0 3.21127- 5 0.0     + 0 8.24211- 69849 4 63 1561
 0.0     + 0 1.06778- 6                                                 9849 4 63 1562
                                                                        9849 4  0 1563
 9.82490+ 4 2.46935+ 2           0           2           0           09849 4 91 1564
 0.0     + 0 2.46935+ 2           0           1           0           09849 4 91 1565
 0.0     + 0 0.0    + 0           0           0           1           29849 4 91 1566
           2          2           0           0           0           09849 4 91 1567
 0.0     + 0 5.52227+ 5           0           0           1           29849 4 91 1568
           2          2           0           0           0           09849 4 91 1569
-1.00000+ 0 5.00000- 1 1.00000+ 0 5.00000- 1                            9849 4 91 1570
 0.0     + 0 2.00000+ 7           0           0           1           29849 4 91 1571
           2          2           0           0           0           09849 4 91 1572
-1.00000+ 0 5.00000- 1 1.00000+ 0 5.00000- 1                            9849 4 91 1573
                                                                        9849 4  0 1574
                                                                        9849 0  0 1575
 9.82490+ 4 2.46935+ 2           0           0           2           09849 5 16 1576
 5.61570+ 6 0.0    + 0           0           9           1           29849 5 16 1577
           2          2           0           0           0           09849 5 16 1578
 5.61570+ 6 5.00000- 1 2.00000+ 7 5.00000- 1                            9849 5 16 1579
 0.0     + 0 0.0    + 0           0           0           1           99849 5 16 1580
           9          2           0           0           0           09849 5 16 1581
 5.61570+ 6 4.66402+ 5 6.00000+ 6 4.83711+ 5 8.00000+ 6 5.64982+ 59849 5 16 1582
 1.00000+ 7 6.35608+ 5 1.20000+ 7 6.98920+ 5 1.40000+ 7 7.56809+ 59849 5 16 1583
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 1.60000+ 7 8.10467+ 5 1.80000+ 7 8.60706+ 5 2.00000+ 7 9.08105+ 59849 5 16 1584
 5.61570+ 6 0.0    + 0           0           9           1           29849 5 16 1585
          2           2           0           0           0           09849 5 16 1586
 5.61570+ 6 5.00000- 1 2.00000+ 7 5.00000- 1                           9849 5 16 1587
 0.0    + 0 0.0    + 0           0           0           1           99849 5 16 1588
          9           2           0           0           0           09849 5 16 1589
 5.61570+ 6 4.32768+ 5 6.00000+ 6 4.32768+ 5 8.00000+ 6 4.32768+ 59849 5 16 1590
 1.00000+ 7 4.32768+ 5 1.20000+ 7 4.19074+ 5 1.40000+ 7 5.06828+ 59849 5 16 1591
 1.60000+ 7 5.81456+ 5 1.80000+ 7 6.47509+ 5 2.00000+ 7 7.07414+ 59849 5 16 1592
                                                                       9849 5  0 1593
 9.82490+ 4 2.46935+ 2           0           0           3           09849 5 17 1594
 1.26227+ 7 0.0    + 0           0           9           1           29849 5 17 1595
          2           2           0           0           0           09849 5 17 1596
 1.26227+ 7 3.33333- 1 2.00000+ 7 3.33333- 1                           9849 5 17 1597
 0.0    + 0 0.0    + 0           0           0           1           59849 5 17 1598
          5           2           0           0           0           09849 5 17 1599
 1.26227+ 7 7.17459+ 5 1.40000+ 7 7.56809+ 5 1.60000+ 7 8.10467+ 59849 5 17 1600
 1.80000+ 7 8.60706+ 5 2.00000+ 7 9.08105+ 5                           9849 5 17 1601
 1.26227+ 7 0.0    + 0           0           9           1           29849 5 17 1602
          2           2           0           0           0           09849 5 17 1603
 1.26227+ 7 3.33333- 1 2.00000+ 7 3.33333- 1                           9849 5 17 1604
 0.0    + 0 0.0    + 0           0           0           1           59849 5 17 1605
          5           2           0           0           0           09849 5 17 1606
 1.26227+ 7 5.12525+ 5 1.40000+ 7 5.37568+ 5 1.60000+ 7 5.90107+ 59849 5 17 1607
 1.80000+ 7 6.49674+ 5 2.00000+ 7 7.07948+ 5                           9849 5 17 1608
 1.26227+ 7 0.0    + 0           0           9           1           29849 5 17 1609
          2           2           0           0           0           09849 5 17 1610
 1.26227+ 7 3.33333- 1 2.00000+ 7 3.33333- 1                           9849 5 17 1611
 0.0    + 0 0.0    + 0           0           0           1           59849 5 17 1612
          5           2           0           0           0           09849 5 17 1613
 1.26227+ 7 4.32671+ 5 1.40000+ 7 4.32671+ 5 1.60000+ 7 4.32671+ 59849 5 17 1614
 1.80000+ 7 4.32671+ 5 2.00000+ 7 3.95987+ 5                           9849 5 17 1615
                                                                       9849 5  0 1616
 9.82490+ 7 2.46935+ 2           0           0           1           09849 5 18 1617
-2.00000+ 7 0.0    + 0           0           7           1           29849 5 18 1618
          2           2           0           0           0           09849 5 18 1619
 1.00000- 5 1.00000+ 0 2.00000+ 7 1.00000+ 0                           9849 5 18 1620
 0.0    + 0 0.0    + 0           0           0           1           29849 5 18 1621
          2           2           0           0           0           09849 5 18 1622
 1.00000- 5 1.43000+ 6 2.00000+ 7 1.43000+ 6                           9849 5 18 1623
                                                                       9849 5  0 1624
 9.82490+ 4 2.46935+ 2           0           0           4           09849 5 37 1625
 1.86650+ 7 0.0    + 0           0           9           1           29849 5 37 1626
          2           2           0           0           0           09849 5 37 1627
 1.86650+ 7 2.50000- 1 2.00000+ 7 2.50000- 1                           9849 5 37 1628
 0.0    + 0 0.0    + 0           0           0           1           29849 5 37 1629
          2           2           0           0           0           09849 5 37 1630
 1.86650+ 7 8.76757+ 5 2.00000+ 7 9.08105+ 5                           9849 5 37 1631
 1.86650+ 7 0.0    + 0           0           9           1           29849 5 37 1632
          2           2           0           0           0           09849 5 37 1633
 1.86650+ 7 2.50000- 1 2.00000+ 7 2.50000- 1                           9849 5 37 1634
 0.0    + 0 0.0    + 0           0           0           1           29849 5 37 1635
          2           2           0           0           0           09849 5 37 1636
 1.86650+ 7 7.21735+ 5 2.00000+ 7 7.38127+ 5                           9849 5 37 1637
 1.86650+ 7 0.0    + 0           0           9           1           29849 5 37 1638
          2           2           0           0           0           09849 5 37 1639
 1.86650+ 7 2.50000- 1 2.00000+ 7 2.50000- 1                           9849 5 37 1640
 0.0    + 0 0.0    + 0           0           0           1           29849 5 37 1641
          2           2           0           0           0           09849 5 37 1642
 1.86650+ 7 4.87141+ 5 2.00000+ 7 4.96438+ 5                           9849 5 37 1643
 1.86650+ 7 0.0    + 0           0           9           1           29849 5 37 1644
          2           2           0           0           0           09849 5 37 1645
 1.86650+ 7 2.50000- 1 2.00000+ 7 2.50000- 1                           9849 5 37 1646
 0.0    + 0 0.0    + 0           0           0           1           29849 5 37 1647
          2           2           0           0           0           09849 5 37 1648
 1.86650+ 7 4.33211+ 5 2.00000+ 7 4.33211+ 5                           9849 5 37 1649
                                                                       9849 5  0 1650
 9.82490+ 4 2.46935+ 2           0           0           1           09849 5 91 1651
 5.52228+ 5 0.0    + 0           0           9           1           29849 5 91 1652
          2           2           0           0           0           09849 5 91 1653
 5.52228+ 5 1.00000+ 0 2.00000+ 7 1.00000+ 0                           9849 5 91 1654
 0.0    + 0 0.0    + 0           0           0           1          119849 5 91 1655
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         11          2          0          0          0          09849 5 91 1656
5.52228+ 5 4.30514+ 5 2.00000+ 6 4.30514+ 5 4.00000+ 6 3.84738+ 59849 5 91 1657
6.00000+ 6 4.83711+ 5 8.00000+ 6 5.64982+ 5 1.00000+ 7 6.35608+ 59849 5 91 1658
1.20000+ 7 6.98920+ 5 1.40000+ 7 7.56809+ 5 1.60000+ 7 8.10467+ 59849 5 91 1659
1.80000+ 7 8.60706+ 5 2.00000+ 7 9.08105+ 5                      9849 5 91 1660
                                                                 9849 5  0 1661
                                                                 9849 0  0 1662
                                                                    0 0  0 1663
                                                                   -1 0  0    0
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