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核分裂生成物の崩壊熱計算のための
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核分裂生成物の崩壊熱計算のための核データ

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核分裂生成物の崩壊熱を総和計算により求める為には、個々の核種に対して崩壊定数、崩壊エネルギー、崩壊系列、核分裂収率および中性子捕獲断面積のデータが必要である。本稿に於ては崩壊熱の計算に於て問題となる総計 1 1 1 4 の核種の核データを示す。短寿命核種に対しては未知の核データが数多くあり、それらはシステムティックスにより推定された。

Nuclear Data for Calculation of the Decay Power of Fission Products

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For summation calculation of the decay power of fission products many nuclear data are required for each nuclide, including decay constant, decay energy, decay scheme, fission yields and neutron capture cross section. The nuclear data are presented for 1114 nuclides. The unknown data for short-lived nuclides are estimated statistically.

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1. は じ め に

核分裂生成物の崩壊熱の計算方法には統計的方法^{(1)・(2)}と総和計算^{(3)~(11)}による方法の2つがある。前者は多くの核種からなる核分裂生成物を一種の統計的集合と考え、その平均的性質すなわち統計的性質から崩壊熱を求めるものである。いっぽう総和計算に於ては個々の核種を別個に取扱いその核データから個々の核種の崩壊熱を求め、それらを加え合せて全核種からの崩壊熱を求める。統計的方法は崩壊熱に寄与する核種の数が多い場合にのみ適用可能である。従って炉停止後長い時間がたった時点に於ては、崩壊熱に寄与する核種数は少なく、崩壊熱を精度よく求める為には総和計算によらなければならない。いっぽう総和計算は統計的方法より厳密な取扱いをしているが、その適用範囲は 10^3 秒以上の比較的長い冷却時間範囲に限定されている。それは核データの分っている短寿命核種の数が少ないことによっている。

本稿に於ては総和計算により崩壊熱を求めることを前提とし、個々の核種の核データを評価して与える。短かい冷却時間に於ても総和計算により精度よく崩壊熱を求める為には考慮しなければならない短寿命核種数は飛躍的に増加する。本稿に於て考慮された核種数は総計1114に達する。短寿命核種に対しては未知の核データが数多くありそれらは主にシステムティックスにより推定された。

2. 崩壊熱の計算に必要な核データ

核分裂生成物の崩壊熱を計算する為に必要な、個々の核種の核データを列挙すると次のようになる。

- 「1」 崩壊定数(または半減期)
- 「2」 崩壊系列
- 「3」 単位崩壊あたりの β 線発熱および γ 線発熱
- 「4」 中性子捕獲断面積
- 「5」 核分裂収率

本稿に於て考慮されたのは放射性核種970, 安定核種144の合計1114核種であり、これらの核種に対する「1」から「5」までの核データをAppendix Aに示す。Appendix Aに於て各核種のデータは4行のデータで与えられている。第1行目には核種番号, 核種名, 崩壊定数($1/\text{sec}$), 平均中性子捕獲断面積(cm^2), β 崩壊のQ値(MeV), 単位崩壊あたりの β 線発熱(MeV)および γ 線発熱(MeV)の合計7つのデータが与えられている。第2行目, 第3行目には10の核分裂核種に対する累積核分裂収率が与えられている。核分裂核種および入射中性子エネルギーは順次以下の様になっている。

1. ^{235}U (熱中性子)
2. ^{235}U (核分裂中性子)
3. ^{235}U (1.4 MeV 中性子)

1. は じ め に

核分裂生成物の崩壊熱の計算方法には統計的方法^{(1)・(2)}と総和計算^{(3)~(11)}による方法の2つがある。前者は多くの核種からなる核分裂生成物を一種の統計的集合と考え、その平均的性質すなわち統計的性質から崩壊熱を求めるものである。いっぽう総和計算に於ては個々の核種を別個に取扱いその核データから個々の核種の崩壊熱を求め、それらを加え合せて全核種からの崩壊熱を求める。統計的方法は崩壊熱に寄与する核種の数が多い場合にのみ適用可能である。従って炉停止後長い時間がたった時点に於ては、崩壊熱に寄与する核種数は少なく、崩壊熱を精度よく求める為には総和計算によらなければならない。いっぽう総和計算は統計的方法より厳密な取扱いをしているが、その適用範囲は 10^3 秒以上の比較的長い冷却時間範囲に限定されている。それは核データの分っている短寿命核種の数が少ないことによっている。

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- 1. ^{235}U (熱中性子)
- 2. ^{235}U (核分裂中性子)
- 3. ^{235}U (1.4 MeV 中性子)

4. ^{238}U (核分裂中性子)
5. ^{238}U (14 MeV 中性子)
6. ^{239}Pu (熱中性子)
7. ^{239}Pu (核分裂中性子)
8. ^{241}Pu (熱中性子)
9. ^{233}U (熱中性子)
10. ^{232}Th (核分裂中性子)

また第4行目には崩壊系列に関するデータが示されており、親核種の崩壊形式(番号)、親核種名、分岐比の3つのデータを対にして親核種の数だけ繰返し与えられている。1つの核種に対して最大5個まで親核種を与えることができる。各親核種はその崩壊形式番号に従い以下の崩壊をして当該核種を生成する。

1. β^- 崩壊
2. Isomeric Transition
3. 中性子捕獲
4. β^+ 崩壊 and/or 軌道電子捕獲
5. α 崩壊

次に「1」から「5」までの核データの出典、および既知のデータがない場合の推定法を以下に示す。

まず「1」の崩壊定数であるが、既知のデータは Meek-Rider⁽¹²⁾ の評価値を使った。崩壊定数が未知の場合には β 崩壊の Q 値から推定した。⁽¹⁰⁾ その為核種の奇偶性および質量を考慮して、以下の6つの場合に対して崩壊定数と Q 値との相関関係が既知の崩壊定数を使って求められた。

- a. $\text{odd } A \leq 115$; $\log \lambda = 6.5 \log Q - 6.0$, (1a)
- b. $\text{odd } A > 115$; $\log \lambda = 6.7 \log Q - 6.0$, (1b)
- c. $\text{even } A \leq 115$ (odd - odd) ; $\log \lambda = 8.4 \log Q - 8.4$, (1c)
- d. $\text{even } A > 115$ (odd - odd) ; $\log \lambda = 8.4 \log Q - 8.8$, (1d)
- e. $\text{even } A \leq 115$ (even - even) ; $\log \lambda = 4.5 \log Q - 4.2$, (1e)
- f. $\text{even } A > 115$ (even - even) ; $\log \lambda = 5.2 \log Q - 4.4$, (1f)

崩壊定数は Q 値および核種の奇偶性、核子数のみならず本来親核と娘核のスピン、パリティにも依存する。(1+)のスピン、パリティの (odd - odd) 核は他と異なる相関関係を示している。⁽¹⁰⁾ しかし崩壊定数の未知の核種に対してスピン、パリティが分かっているとは普通考えられず、崩壊定数を推定する為の相関関係を求めるに際しては、スピンとパリティの効果は無視された。

崩壊定数の既知の核種は比較的寿命の長い核種であり、短寿命の約360核種の崩壊定数が

Q値との相関関係をもとに推定された。また β 崩壊のQ値も未知な場合にはそれらはMyers-Swiatecki⁽¹³⁾の質量公式を使って推定された。彼らの質量公式には閉殻効果も考慮されている。Myers-Swiateckiの質量公式をもとに β 崩壊のQ値を求め、さらに(1)式の相関関係をもとに崩壊定数を推定するプログラム「MYSKI」をAppendix Bに示す。

「2」の崩壊系列に関しても「1」の崩壊定数同様、既知の部分に対してはMeek-Rider⁽¹²⁾のデータを採用した。Meek-Riderの崩壊系列に与えられていない核種は準安定状態を無視し、基底状態間の β 崩壊として取扱った。また中性子捕獲による壊変系列を考慮したのは熱中性子炉体系または高速炉体系に於て大きな中性子捕獲断面積と累積核分裂収率をもつ59核種であり、それらをTable 1に示す。核分裂生成物はその大部分が中性子過剰の核種であり、過剰の中性子が多い程寿命が短かく β 崩壊を繰返して安定核種へと崩壊して行く。中性子が過剰の核種は一般に中性子を捕獲しにくく、中性子捕獲断面積が大きいのは安定核種もしくは長寿命核種である。本稿に於て中性子捕獲を考慮した59核種のうち31核種が安定核種である。

「3」の単位崩壊あたりの β 線崩壊熱(b_i) および γ 線崩壊熱(g_i) は核種*i*に対してそれぞれ次式の如く与えられる。⁽¹⁰⁾

$$b_i = \sum_{k=1}^K p_k^i \bar{E}_{\beta}^{i,k}, \quad (2a)$$

$$g_i = \sum_{k=1}^K p_k^i (Q_i - E_{\beta, \max}^{i,k}), \quad (2b)$$

ここで p_k^i , $E_{\beta, \max}^{i,k}$, $\bar{E}_{\beta}^{i,k}$ はそれぞれ核種*i*から放出される*k*番目の β 線の分岐比, 最大エネルギーおよび平均エネルギーである。最大エネルギーと平均エネルギーとの差はニュートリノにより運び去られるエネルギーに対応している。各 β 線の平均エネルギーと最大エネルギーとの比はクーロン効果を考慮して計算された。⁽¹⁴⁾ β 線の種類は*K*個であり、 Q_i は β 崩壊のQ値を表わしている。

(2b)式に於て γ 線崩壊熱はQ値と β 線エネルギーとの差として与えられている。このことは γ 線の内部転換を無視したことに相当する。しかし内部転換の割合は100 keV以上の γ 線に対しては小さく、しかも γ 線エネルギーの増加に伴ない急に小さくなる。従って内部転換を無視することによって生ずる誤差は小さいと考えられる。

(2)式に必要な β 崩壊のQ値, β 線エネルギーおよび β 線分岐比のデータはTables of Isotopes, Sixth Edition⁽¹⁵⁾およびNuclear Data Sheets⁽¹⁶⁾からとられた。

「4」の中性子捕獲断面積は1群に縮約した形 $\langle \sigma_c \rangle$ で与えられる。中性子捕獲反応率は積分中性子束との積で表わされる。すなわち

$$\lambda_c = \langle \sigma_c \rangle \phi, \quad (3a)$$

$$\langle \sigma_c \rangle = \frac{\int \sigma_c(E) \phi(E) dE}{\int \phi(E) dE}, \quad (3b)$$

$$\Phi = \int \phi(E) dE \quad (3c)$$

また熱中性子炉体系に於ては熱中性子に対する等価断面積で中性子捕獲断面積を表わし、中性子捕獲反応率を熱中性子等価捕獲断面積 σ_{eq} と熱中性子束 ϕ_{th} との積で与える場合がある。すなわち

$$\lambda_c = \sigma_{eq} \cdot \phi_{th} \quad (4a)$$

$$\sigma_{eq} = A \cdot \sigma_{c, 2200} + I_e \cdot RI \quad (4b)$$

$$\phi_{th} = \int_0^{0.5 \text{ eV}} \phi(E) dE \quad (4c)$$

ここで A は熱中性子に対する平均中性子捕獲断面積 σ_{th} と 2200 m/sec の中性子に対する値 $\sigma_{c, 2200}$ との比であり、熱中性子スペクトルに依存する。 I_e は Epithermal Index (単位レサジーあたりの熱外中性子束/熱中性子束) を表わし、 RI は中性子捕獲反応に対する共鳴積分を示している。

中性子捕獲反応を考慮したのは 59 核種であり、Appendix A には電気出力 $1,000 \text{ MWe}$ の LMFBF (Liquid Metal cooled Fast Breeder Reactor) の炉心中性子スペクトルで縮約した 1 群中性子捕獲断面積が与えられている。高速炉体系に対しては Cook⁽¹⁷⁾ の評価値をもとに 25 群の群定数 (ABBN タイプ) が求められており、これをそれぞれの体系の中性子スペクトルを使って縮約し 1 群の中性子捕獲断面積が求められる。59 核種に対する 25 群 (ABBN タイプ) の中性子捕獲断面積を Appendix C に示す。また熱中性子炉体系に対する Clayton⁽¹⁸⁾ の評価値も Appendix C に示す。Clayton のデータは熱中性子断面積と共鳴積分の形で与えられており、熱中性子等価捕獲断面積は Epithermal Index をもとに (4b) 式により計算される。

Clayton のデータを使い Epithermal Index が 0.1 と 0.2 の熱中性子炉体系に対する熱中性子等価捕獲断面積を求めた結果を Table 1 に示す。(4b) 式に於ける A は 0.75 とした。Epithermal Index の 0.1 および 0.2 はそれぞれグラファイト炉および軽水炉の中性子スペクトルにはほぼ対応している。また電気出力が $1,000 \text{ MWe}$ の高速炉体系 (LMFBF) に対する平均中性子捕獲断面積は既に Appendix A に与えられているが、Table 1 にも比較の為示す。

「5」の核分裂収率は Meek-Rider⁽¹²⁾ のデータを使った。また Meek-Rider の取扱っていない核種の核分裂収率は核荷電分布に対してガウス分布を仮定し、彼等の与えている質量収率およびガウス分布に対する最確電荷 Z_p と分散 σ を使って計算した。本稿に於て考慮した核種数は 1114 であるが、それらは Meek-Rider のデータをもとに、原子炉燃料として使われる核分裂核種からの累積核分裂収率が $10^{-3} \%$ を超える FP を全部網羅するように選ばれた。

「1」から「5」の核データのうち崩壊熱の計算に固有のものは「3」の単位崩壊あたりの β 線発熱および γ 線発熱のデータのみであり、他はいずれも各核分裂生成物の生成量を計算する為のデータである。従って本稿のデータを使って各核分裂生成物の生成量を計算し、それをもとに崩壊熱以外の核分裂生成物の諸特性を求めることも可能である。安全性の面からは特定の核種

の生成量自身が重要であり、燃焼解析の面からはFP全体の中性子捕獲反応率が重要である。また遮蔽計算の為に γ 線スペクトルが必要となる。

核分裂生成物の β 線崩壊熱と γ 線崩壊熱のみならず、 γ 線スペクトルも必要な場合には、各核種から放出される各 γ 線のエネルギーおよび放出割合のデータが必要である。これらのデータのWakat⁽¹⁹⁾による評価値をAppendix Dに示す。ただしAppendix Dに示されているのは γ 線の測定値のある核種のみであり、短寿命核種に対するデータは少ない。もちろん安定核種および γ 線を放出しない核種は含まれていない。

3. 検 討

Appendix Aに与えられた崩壊熱の計算の為に核データの適用性を調べる為、実際に崩壊熱を計算し測定値と比較検討した。崩壊熱の計算は「DCHAIN」⁽²⁰⁾プログラムを使ってなされた。これはBatemanの式およびその積分型を繰返し使い、核分裂生成物の各核種の生成量を完全に解析的に任意の照射履歴および冷却時間に対して求めるものである。また β 崩壊のみならず中性子捕獲、中性子放出、 α 崩壊等あらゆる種類の崩壊系列を統一的に取扱うことが出来る。累積収率は「DCHAIN」プログラムの中で自動的に独立収率におきかえられる。また単位崩壊あたりの β 線崩壊熱(b_i)と γ 線崩壊熱(g_i)とが両方とも与えられていない場合にはそれらはいずれも崩壊エネルギー Q_i の0.29倍の値にとられる。 b_i および g_i と Q_i との比の平均値、すなわち $(b/Q)_{av}$ と $(g/Q)_{av}$ とは、核分裂核種として ^{235}U 、 ^{239}Pu および ^{238}U の3核種を選び、100~720日の照射時間および1~10秒の冷却時間に対して、核データの既知の核種のみ考慮してパラメトリックに計算したところ、 0.29 ± 0.01 と求められた。⁽¹⁰⁾

Appendix Aの核データのうち誤差が大きいのはシステムティックスにより推定された短寿命核種の核データである。従って崩壊熱の計算精度が悪いのは照射時間および冷却時間が短かく短寿命核種の寄与が大きい場合である。一方短かい冷却時間に於ても比較的精度よく測定されているのは γ 線崩壊熱である。

そこで ^{235}U の熱中中性子による瞬時核分裂の場合に対して γ 線崩壊熱を計算し、それを測定値^{(21)~(26)}および他の計算値^{(3),(8)}と比較した。結果をFig.1に示す。今回の計算結果は信頼性が高いと言われているMaienschein⁽²⁴⁾の測定値とその全冷却時間範囲にわたって非常によく一致している。Maienscheinの測定値は即発 γ 線を除き、約1.2秒から1.800秒までの冷却時間範囲にわたっている。1秒以下の冷却時間に於ても今回の計算はPetrov⁽²¹⁾とIyer-Ganguly⁽²²⁾の測定値の間を通過しており、かなり信頼性が高いと考えられる。従って短寿命核種に対してシステムティックスにより推定した核データは崩壊熱の計算の為に有用であり、これらのデータを使うことにより短かい冷却時間に於てもかなりの精度で崩壊熱を計算しうる事が分る。

一方核データがはっきり分っている核種のみ取扱ったPerkins-King⁽³⁾の計算値は10⁻³秒以下の冷却時間に於て急に測定値より小さくなる。Devillers, et al.⁽⁸⁾は未知の核デ

の生成量自身が重要であり、燃焼解析の面からはFP全体の中性子捕獲反応率が重要である。また遮蔽計算の為に γ 線スペクトルが必要となる。

核分裂生成物の β 線崩壊熱と γ 線崩壊熱のみならず、 γ 線スペクトルも必要な場合には、各核種から放出される各 γ 線のエネルギーおよび放出割合のデータが必要である。これらのデータのWakat⁽¹⁹⁾による評価値をAppendix Dに示す。ただしAppendix Dに示されているのは γ 線の測定値のある核種のみであり、短寿命核種に対するデータは少ない。もちろん安定核種および γ 線を放出しない核種は含まれていない。

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タを推定し、多くの短寿命核種を取扱って崩壊熱を計算しており、彼等の計算値は著者の計算値とかなりよく一致している。しかし短い冷却時間に於ける γ 線崩壊熱の測定値との一致度は本稿の結果の方がよい (Fig. 1 参照)。

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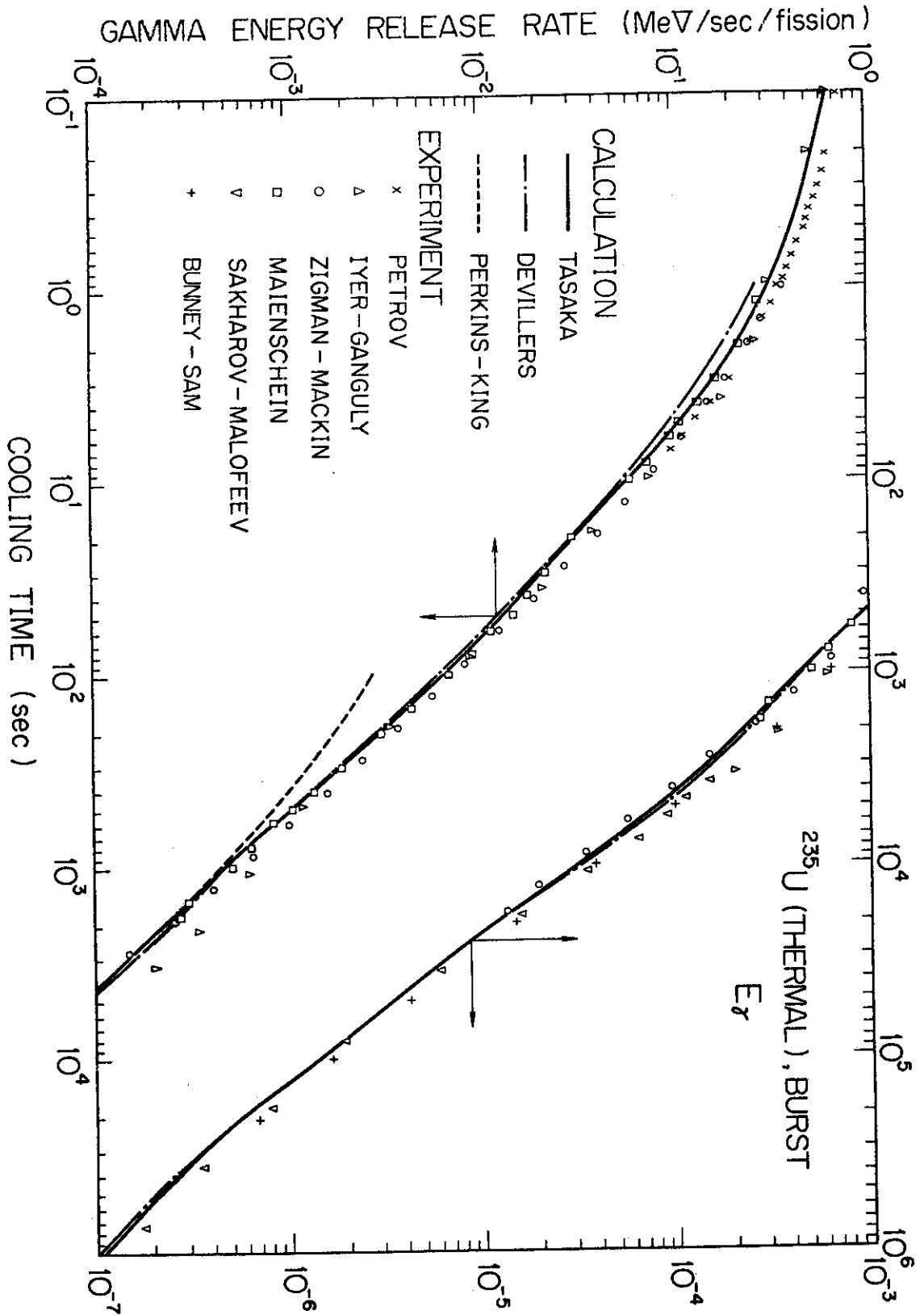


Fig. 1 Gamma-energy release rates of fission products are calculated for the thermal-neutron fission of ^{235}U . The results are compared with experiments and other calculations.

Table 1 Average Neutron Capture Cross Section

No.	Nuclide	THERMAL		FAST
		0.1*)	0.2*)	1000 MWe
1	^{79}Se	35.55	41.10	0.40823
2	^{85}Kr	6.816	7.632	0.13173
3	^{87}Kr	—	—	—
4	^{90}Sr	0.641	0.682	0.0074561
5	^{93}Zr	4.1	6.7	0.13367
6	^{95}Mo	21.51	32.14	0.32043
7	^{97}Mo	3.155	4.66	0.27769
8	^{99}Tc	36.29	56.08	0.51391
9	^{100}Ru	5.507	6.664	0.50877
10	^{101}Ru	11.86	19.82	1.6009
11	^{102}Ru	1.402	1.828	0.30636
12	^{103}Rh	213.1	314.5	0.58401
13	^{104}Ru	0.8955	1.439	0.15881
14	^{104}Rh	—	—	—
15	^{105}Rh	14450	16150	0.25683
16	^{105}Pd	15.73	23.21	0.49940
17	^{106}Ru	0.2375	0.3655	0.069237
18	^{107}Pd	15.54	23.58	0.49551
19	^{108}Pd	30.52	52.04	0.11809
20	^{109}Ag	215.7	360.1	0.62476
21	^{113}Cd	14990	15030	0.29623
22	^{115}In	471.4	793.5	0.51526

*) epithermal index

Cont'd

No.	Nuclide	THERMAL		FAST
		0.1	0.2	1000 MWe
23	^{121}Sb	25.2	45.75	0.43706
24	^{123}Sb	15.71	28.27	0.32820
25	^{127}I	19.83	35.01	0.54860
26	^{129}I	23.60	26.19	0.29013
27	^{131}Xe	161.5	240.5	0.46357
28	^{133}Xe	147.7	153.0	0.11264
29	^{133}Cs	68.16	114.2	0.43935
30	^{134}Cs	109.3	118.1	0.48513
31	^{135}Xe	2026000	2026000	0.016482
32	^{135}Cs	12.87	19.07	0.22535
33	^{137}Cs	0.1239	0.1653	0.018404
34	^{139}La	8.313	9.876	0.056396
35	^{140}Ba	2.559	3.918	0.20665
36	^{141}Ce	24.62	27.50	0.13161
37	^{141}Pr	10.00	11.75	0.15732
38	^{143}Pr	94.00	113.0	0.47829
39	^{143}Nd	250.2	256.6	0.47945
40	^{144}Ce	1.010	1.270	0.071654
41	^{144}Nd	3.464	4.228	0.14294
42	^{145}Nd	60.88	88.01	0.40950
43	^{146}Nd	1.286	1.522	0.096998
44	^{147}Pm	345.3	563.1	1.2961
45	^{147}Sm	100.1	156.7	1.3697
46	^{148}Pm	6648	11050	1.0098

Cont'd

No.	Nuclide	THERMAL		FAST
		0.1	0.2	1000 MWe
47	^{148}Sm	5.376	7.227	0.24056
48	^{149}Pm	1143	1236	1.2419
49	^{149}Sm	31870	32240	1.5889
50	^{150}Sm	102.2	127.9	0.68366
51	^{151}Sm	11470	11690	2.8407
52	^{151}Eu	—	—	—
53	^{152}Sm	478.5	802.5	0.69376
54	^{153}Eu	465.4	593.3	2.1461
55	^{154}Eu	1249	1373	3.1269
56	^{155}Eu	3152	3275	1.9219
57	^{156}Eu	487.1	612.9	1.8154
58	^{158}Gd	11.89	21.68	0.33688
59	^{159}Tb	54.14	91.78	1.6847

Appendix A Table of Nuclear Data for the Calculation of Decay Power of Fission Products

***** EACH NUCLIDE *****							
* LINE - 1 ** 1 = RAMDA * 2 = SIG-C * 3 = g-VAL. * 4 = EBB * 5 = EGG ** *							
* LINE - 2 ** 1 = U235T * 2 = U235F * 3 = U235HE * 4 = U238F * 5 = U238HE ** *							
* LINE - 3 ** 6 = PU239T * 7 = PU239F * 8 = PU241T * 9 = U233T * 10 = TH239F ** *							
* LINE - 4 ** 1 = P-TYPE * 2 = P-NUC. * 3 = RATIO * REPEAT (1 - 3) WORDS ** *							

NUCLIDE	1	CR 66	0.288920E 01 0.379000E-09 0.574000E-09	0.0 0.171000E-08 0.0	0.108440E 02 0.149000E-06 0.123000E-10	0.0 0.301000E-09 0.147000E-09	0.0 0.277000E-06 0.116000E-07
NUCLIDE	2	MN 66	0.152280E 04 0.191000E-07 0.507000E-07 1 CR 66 1.00000	0.0 0.911000E-07 0.0	0.137600E 02 0.147000E-04 0.649000E-09	0.0 0.678000E-08 0.130000E-07	0.0 0.148000E-04 0.340000E-06
NUCLIDE	3	FE 66	0.196570E 00 0.837000E-07 0.338000E-06 1 MN 66 1.00000	0.0 0.415000E-06 0.0	0.599780E 01 0.181000E-03 0.270000E-06	0.0 0.174000E-07 0.866000E-07	0.0 0.674000E-04 0.103000E-05
NUCLIDE	4	CO 66	0.879800E 00 0.102000E-06 0.476000E-06 1 FE 66 1.00000	0.0 0.514000E-06 0.0	0.978880E 01 0.290000E-03 0.337000E-08	0.0 0.188000E-07 0.122000E-06	0.0 0.835000E-04 0.115000E-05
NUCLIDE	5	NI 66	0.352639E-02 0.103000E-06 0.480000E-06 1 CO 66 1.00000	0.0 0.516000E-06 0.0	0.200000E 00 0.290000E-03 0.339000E-08	0.573000E-01 0.188000E-07 0.423000E-06	0.0 0.838000E-04 0.115000E-05
NUCLIDE	6	CU 66	0.226519E-02 0.103000E-06 0.480000E-06 1 NI 66 1.00000	0.0 0.516000E-06 0.0	0.263000E 01 0.290000E-03 0.339000E-08	0.107800E 01 0.188000E-07 0.423000E-06	0.594000E-01 0.838000E-04 0.115000E-05
NUCLIDE	7	ZN 66	0.0 0.103000E-06 0.480000E-06 1 CU 66 1.00000	0.0 0.516000E-06 0.0	0.0 0.290000E-03 0.339000E-08	0.0 0.188000E-07 0.423000E-06	0.0 0.838000E-04 0.115000E-05
NUCLIDE	8	GA 66	0.202675E-04 0.0 0.0 4 GE 66 1.00000	0.0 0.0 0.0	0.517500E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE	9	GE 66	0.802234E-04 0.0 0.0	0.0 0.0 0.0	0.300000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE	10	CR 67	0.304920E 02 0.231000E-09 0.293000E-09	0.0 0.102000E-08 0.0	0.144460E 02 0.420000E-07 0.403000E-11	0.0 0.439000E-09 0.373000E-10	0.0 0.793000E-07 0.479000E-08
NUCLIDE	11	MN 67	0.910140E 01 0.272000E-07 0.614000E-07 1 CR 67 1.00000	0.0 0.127000E-06 0.0	0.119910E 02 0.133000E-04 0.631000E-09	0.0 0.121000E-07 0.405000E-07	0.0 0.987000E-05 0.418000E-06
NUCLIDE	12	FE 67	0.227270E 01 0.227000E-06 0.829000E-06 1 MN 67 1.00000	0.0 0.112000E-05 0.0	0.968430E 01 0.290000E-03 0.667000E-08	0.0 0.229000E-07 0.182000E-06	0.0 0.864000E-04 0.279000E-05
NUCLIDE	13	CO 67	0.704410E 00 0.349000E-06 0.160000E-05 1 FE 67 1.00000	0.0 0.173000E-05 0.0	0.808580E 01 0.597000E-03 0.114000E-07	0.0 0.647000E-07 0.402000E-06	0.0 0.136000E-03 0.392000E-05
NUCLIDE	14	NI 67	0.138629E-01 0.355000E-06 0.166000E-05 1 CO 67 1.00000	0.0 0.178000E-05 0.0	0.410000E 01 0.636000E-03 0.117000E-07	0.442800E 01 0.550000E-07 0.424000E-06	0.810000E 00 0.138000E-03 0.396000E-05
NUCLIDE	15	CU 67	0.312566E-05 0.355000E-06 0.166000E-05 1 NI 67 1.00000	0.0 0.178000E-05 0.0	0.577000E 00 0.637000E-03 0.117000E-07	0.148000E 00 0.550000E-07 0.423000E-06	0.114000E 00 0.138000E-03 0.396000E-05
NUCLIDE	16	ZN 67	0.0 0.355000E-06 0.166000E-05 1 CU 67 1.00000	0.0 0.178000E-05 0.0	0.0 0.637000E-03 0.117000E-07	0.0 0.550000E-07 0.423000E-06	0.0 0.138000E-03 0.396000E-05
NUCLIDE	17	GA 67	0.246216E-05 0.0 0.0 4 GE 67 1.00000	0.0 0.0 0.0	0.100100E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE	18	GE 67	0.608024E-03 0.0 0.0	0.0 0.0 0.0	0.440000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE	19	CR 68	0.575280E 01 0.257000E-10 0.256000E-10	0.0 0.111000E-09 0.0	0.126220E 02 0.251000E-08 0.0	0.0 0.382000E-10 0.489000E-11	0.0 0.108000E-07 0.847000E-09

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NUCLIDE	20	MN 68	0.430400E-04 0.968000E-08 0.175000E-07 1 CR 68 1.00000	0.0 0.446000E-07 0.0	0.155780E-02 0.262000E-05 0.202000E-09	0.0 0.298000E-08 0.267000E-08	0.0 0.433000E-05 0.205000E-06
NUCLIDE	24	FE 68	0.733790E-00 0.218000E-06 0.674000E-06 1 MN 68 1.00000	0.0 0.106000E-05 0.0	0.801770E-01 0.148000E-03 0.591000E-08	0.0 0.633000E-07 0.135000E-06	0.0 0.103000E-03 0.314000E-05
NUCLIDE	22	CO 68	0.497620E-01 0.558000E-06 0.243000E-05 1 FE 68 1.00000	0.0 0.279000E-05 0.0	0.120390E-02 0.700000E-03 0.179000E-07	0.0 0.108000E-06 0.290000E-06	0.0 0.272000E-03 0.646000E-05
NUCLIDE	23	NI 68	0.100000E-19 0.604000E-06 0.283000E-05 1 CO 68 1.00000	0.0 0.304000E-05 0.0	0.0 0.878000E-03 0.199000E-07	0.0 0.111000E-06 0.122000E-06	0.0 0.296000E-03 0.677000E-05
NUCLIDE	24	CU 68	0.223596E-01 0.604000E-06 0.283000E-05 1 NI 68 1.00000	0.0 0.304000E-05 0.0	0.440000E-01 0.882000E-03 0.200000E-07	0.142200E-01 0.111000E-06 0.725000E-06	0.131200E-01 0.296000E-03 0.677000E-05
NUCLIDE	25	ZN 68	0.0 0.604000E-06 0.283000E-05 1 CU 68 1.00000	0.0 0.304000E-05 0.0	0.0 0.882000E-03 0.200000E-07	0.0 0.111000E-06 0.725000E-06	0.0 0.296000E-03 0.677000E-05
NUCLIDE	26	GA 68	0.169391E-03 0.0 0.0 4 GE 68 1.00000	0.0 0.0 0.0	0.292000E-01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE	27	GE 68	0.279531E-07 0.0 0.0	0.0 0.0 0.0	0.500000E-00 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE	28	MN 69	0.226180E-02 0.279000E-06 0.400000E-08	0.0 0.125000E-07 0.0	0.137960E-02 0.363000E-06 0.517000E-10	0.0 0.243000E-08 0.341000E-09	0.0 0.937000E-06 0.702000E-07
NUCLIDE	29	FE 69	0.805640E-01 0.186000E-06 0.469000E-06 1 MN 69 1.00000	0.0 0.883000E-06 0.0	0.117680E-02 0.639000E-04 0.457000E-08	0.0 0.711000E-07 0.847000E-07	0.0 0.661000E-04 0.309000E-05
NUCLIDE	30	CO 69	0.979970E-01 0.998000E-06 0.392000E-05 1 FE 69 1.00000	0.0 0.495000E-05 0.0	0.121290E-02 0.744000E-03 0.304000E-07	0.0 0.215000E-06 0.697000E-06	0.0 0.370000E-03 0.123000E-04
NUCLIDE	31	NI 69	0.143690E-08 0.130000E-05 0.604000E-05 1 CO 69 1.00000	0.0 0.655000E-05 0.0	0.370930E-00 0.133100E-02 0.428000E-07	0.0 0.240000E-06 0.153000E-05	0.0 0.490000E-03 0.146000E-04
NUCLIDE	32	CU 69	0.385082E-02 0.131000E-05 0.614000E-05 1 NI 69 1.00000	0.0 0.659000E-05 0.0	0.195600E-01 0.137100E-02 0.432000E-07	0.0 0.240000E-06 0.157000E-05	0.0 0.493000E-03 0.147000E-04
NUCLIDE	33	ZN 69M	0.140541E-04 0.592000E-11 0.130000E-09	0.0 0.350000E-10 0.0	0.439000E-00 0.800000E-07 0.0	0.0 0.0 0.691000E-10	0.439000E-00 0.262000E-08 0.192000E-10
NUCLIDE	34	ZN 69	0.199180E-03 0.131000E-05 0.614000E-05 1 CU 69 1.00000	0.0 0.659000E-05 0.0	0.901000E-00 0.137100E-02 0.432000E-07	0.322000E-00 0.240000E-06 0.157000E-05	0.0 0.493000E-03 0.147000E-04
NUCLIDE	35	GA 69	0.0 0.131000E-05 0.614000E-05 1 ZN 69 1.00000	0.0 0.659000E-05 0.0	0.0 0.137100E-02 0.432000E-07	0.0 0.240000E-06 0.157000E-05	0.0 0.493000E-03 0.147000E-04
NUCLIDE	36	GE 69	0.491178E-05 0.0 0.0 4 AS 69 1.00000	0.0 0.0 0.0	0.222300E-01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE	37	AS 69	0.770164E-03 0.0 0.0	0.0 0.0 0.0	0.390000E-01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE	38	CR 70	0.631130E-01 0.0 0.0	0.0 0.0 0.0	0.128820E-02 0.283000E-11 0.0	0.0 0.0 0.0	0.0 0.305000E-10 0.603000E-11
NUCLIDE	39	MN 70	0.974230E-02 0.534000E-09 0.602000E-09 1 CR 70 1.00000	0.0 0.234000E-08 0.0	0.171740E-02 0.343000E-07 0.878000E-11	0.0 0.663000E-09 0.722000E-10	0.0 0.137000E-06 0.161000E-07
NUCLIDE	40	FE 70	0.301640E-01 0.112000E-06 0.227000E-06 1 MN 70 1.00000	0.0 0.521000E-06 0.0	0.109480E-02 0.196000E-04 0.247000E-08	0.0 0.285000E-07 0.366000E-07	0.0 0.304000E-04 0.218000E-05
NUCLIDE	41	CO 70	0.649660E-00 0.151000E-05 0.510000E-05 1 FE 70 1.00000	0.0 0.739000E-05 0.0	0.944060E-01 0.634000E-03 0.446000E-07	0.0 0.390000E-06 0.107000E-05	0.0 0.431000E-03 0.205000E-04

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NUCLIDE	42	NI 70	0.677830E-02 0.291000E-05 0.131000E-04 1 CO 70 1.00000	0.0 0.146000E-04 0.0	0.285580E 01 0.207100E-02 0.944000E-07	0.0 0.549000E-06 0.324000E-05	0.0 0.852000E-03 0.332000E-04
NUCLIDE	43	CU 70	0.560240E-02 0.302000E-05 0.142000E-04 1 NI 70 1.00000	0.0 0.152000E-04 0.0	0.535130E 01 0.234800E-02 0.998000E-07	0.0 0.255000E-06 0.362000E-05	0.0 0.887000E-03 0.538000E-04
NUCLIDE	44	ZN 70	0.0 0.302000E-05 0.142000E-04 1 CU 70 1.00000	0.0 0.152000E-04 0.0	0.0 0.235100E-02 0.998000E-07	0.0 0.555000E-06 0.362000E-05	0.0 0.887000E-03 0.538000E-04
NUCLIDE	45	GA 70	0.547510E-03 0.0 0.402000E-11 4 GE 70 1.00000	0.0 0.0 0.0	0.165000E 01 0.237000E-08 0.0	0.643000E 00 0.0 0.256000E-11	0.554000E-02 0.452000E-10 0.0
NUCLIDE	46	GE 70	0.0 0.0 0.403000E-11	0.0 0.0 0.0	0.0 0.237000E-08 0.0	0.0 0.0 0.256000E-11	0.0 0.452000E-10 0.0
NUCLIDE	47	MN 71	0.441970E 04 0.638000E-10 0.563000E-10	0.0 0.273000E-09 0.0	0.152960E 02 0.193000E-08 0.0	0.0 0.114000E-09 0.298000E-11	0.0 0.121000E-07 0.231000E-08
NUCLIDE	48	FE 71	0.149730E 02 0.437000E-07 0.704000E-07 1 MN 71 1.00000	0.0 0.199000E-06 0.0	0.129470E 02 0.369000E-05 0.859000E-09	0.0 0.320000E-07 0.101000E-07	0.0 0.883000E-05 0.101000E-05
NUCLIDE	49	CO 71	0.408820E 01 0.167000E-05 0.489000E-05 1 FE 71 1.00000	0.0 0.804000E-05 0.0	0.105980E 02 0.365000E-03 0.433000E-07	0.0 0.555000E-06 0.893000E-06	0.0 0.357000E-03 0.259000E-04
NUCLIDE	50	NI 71	0.218530E 00 0.603000E-05 0.252000E-04 1 CO 71 1.00000	0.0 0.302000E-04 0.0	0.675200E 01 0.266000E-02 0.190000E-06	0.0 0.122000E-05 0.595000E-05	0.0 0.134100E-02 0.718000E-04
NUCLIDE	51	CU 71	0.180560E-02 0.703000E-05 0.328000E-04 1 NI 71 1.00000	0.0 0.354000E-04 0.0	0.322580E 01 0.387100E-02 0.232000E-06	0.0 0.129000E-05 0.837000E-05	0.0 0.157400E-02 0.789000E-04
NUCLIDE	52	ZN 71M	0.484990E-04 0.750000E-08 0.102000E-06	0.0 0.423000E-07 0.0	0.291000E 01 0.239000E-04 0.429000E-09	0.560000E 00 0.223000E-09 0.427000E-07	0.145000E 01 0.188000E-05 0.350000E-07
NUCLIDE	53	ZN 71	0.481352E-02 0.704000E-05 0.329000E-04 1 CU 71 1.00000	0.0 0.354000E-04 0.0	0.261000E 01 0.389500E-02 0.232000E-06	0.104500E 01 0.129000E-05 0.841000E-05	0.127000E 00 0.137500E-02 0.789000E-04
NUCLIDE	54	GA 71	0.0 0.705000E-05 0.133000E-04 1 ZN 71 1.00000	0.0 0.355000E-04 0.0	0.0 0.291800E-02 0.235000E-06	0.0 0.129000E-05 0.846000E-05	0.0 0.157700E-02 0.790000E-04
NUCLIDE	55	GE 71	0.729322E-06 0.0 0.0 4 AS 71 1.00000	0.0 0.0 0.0	0.235000E 00 0.113000E-10 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE	56	AS 71	0.300845E-05 0.0 0.0	0.0 0.0 0.0	0.201000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE	57	FE 72	0.528280E 01 0.992000E-08 0.197000E-07	0.0 0.438000E-07 0.0	0.111540E 02 0.230000E-06 0.654000E-09	0.0 0.152000E-07 0.233000E-08	0.0 0.160000E-05 0.565000E-06
NUCLIDE	58	CO 72	0.177660E 02 0.142000E-05 0.413000E-05 1 FE 72 1.00000	0.0 0.667000E-05 0.0	0.140160E 02 0.895000E-04 0.685000E-07	0.0 0.788000E-06 0.674000E-06	0.0 0.204000E-03 0.377000E-04
NUCLIDE	59	NI 72	0.250050E 00 0.140000E-04 0.557000E-04 1 CO 72 1.00000	0.0 0.689000E-04 0.0	0.632440E 01 0.206600E-02 0.522000E-06	0.0 0.352000E-05 0.120000E-04	0.0 0.183200E-02 0.202000E-03
NUCLIDE	60	CU 72	0.628450E-02 0.232000E-04 0.107000E-03 1 NI 72 1.00000	0.0 0.116000E-03 0.0	0.542520E 01 0.537900E-02 0.774000E-06	0.0 0.434000E-05 0.268000E-04	0.0 0.290400E-02 0.264000E-03
NUCLIDE	61	ZN 72	0.414066E-05 0.237000E-04 0.111000E-03 1 CU 72 1.00000	0.0 0.119000E-03 0.0	0.440000E 00 0.583700E-02 0.784000E-06	0.818600E-01 0.435000E-05 0.284000E-04	0.164700E 00 0.295800E-02 0.265000E-03
NUCLIDE	62	GA 72	0.136554E-04 0.237000E-04 0.111000E-03 1 ZN 72 1.00000	0.0 0.119000E-03 0.0	0.400000E 01 0.584100E-02 0.784000E-06	0.504350E 00 0.435000E-05 0.284000E-04	0.270180E 01 0.295800E-02 0.265000E-03
NUCLIDE	63	GE 72	0.0 0.237000E-04 0.111000E-03 1 GA 72 1.00000	0.0 0.119000E-03 0.0	0.0 0.584100E-02 0.784000E-06	0.0 0.435000E-05 0.284000E-04	0.0 0.295800E-02 0.265000E-03

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NUCLIDE 64	AS 72	0.740542E-05	0.0	0.436000E 01	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
	4 SE 72	1.00000				
NUCLIDE 65	SE 72	0.943828E-06	0.0	0.600000E 00	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
NUCLIDE 66	FE 73	0.316390E-02	0.0	0.145280E 02	0.0	0.0
		0.281000E-05	0.184000E-07	0.181000E-07	0.930000E-08	0.161000E-06
		0.242000E-08	0.0	0.337000E-09	0.755000E-09	0.950000E-07
NUCLIDE 67	CO 73	0.103390E-02	0.0	0.122290E 02	0.0	0.0
		0.127000E-05	0.881000E-05	0.227000E-04	0.150000E-05	0.663000E-04
		0.161000E-05	0.0	0.110000E-06	0.698000E-06	0.199000E-04
	1 FE 73	1.00000				
NUCLIDE 68	NI 73	0.596460E-00	0.0	0.788120E 01	0.0	0.0
		0.534000E-04	0.245000E-03	0.151000E-02	0.163000E-04	0.161200E-02
		0.601000E-04	0.0	0.217000E-05	0.352000E-04	0.269000E-03
	1 CO 73	1.00000				
NUCLIDE 69	CU 73	0.761870E-01	0.0	0.574050E 01	0.0	0.0
		0.943000E-08	0.714000E-03	0.811500E-02	0.281000E-04	0.433200E-02
		0.215000E-03	0.0	0.514000E-05	0.154000E-03	0.518000E-03
	1 NI 73	1.00000				
NUCLIDE 70	ZN 73	0.170870E-02	0.0	0.319860E 01	0.0	0.0
		0.104000E-03	0.792000E-03	0.105770E-05	0.288000E-04	0.472800E-02
		0.247000E-03	0.0	0.549000E-05	0.188000E-03	0.538000E-03
	1 CU 73	1.00000				
NUCLIDE 71	GA 73	0.401127E-04	0.0	0.148300E 01	0.26970E 00	0.333000E 00
		0.104000E-03	0.793000E-03	0.106420E-01	0.288000E-04	0.473200E-02
		0.247000E-03	0.0	0.549000E-05	0.189000E-03	0.538000E-03
	1 ZN 73	1.00000				
NUCLIDE 74	GE 73M	0.130782E 01	0.0	0.670000E-01	0.0	0.670000E-01
		0.104000E-03	0.793000E-03	0.106430E-01	0.288000E-04	0.473200E-02
		0.247000E-03	0.0	0.549000E-05	0.189000E-03	0.538000E-03
	1 GA 73	1.00000				
NUCLIDE 73	GE 73	0.0	0.0	0.0	0.0	0.0
		0.104000E-03	0.793000E-03	0.106430E-01	0.288000E-04	0.473200E-02
		0.247000E-03	0.0	0.549000E-05	0.189000E-03	0.538000E-03
	2 GE 73M	1.00000	4 AS 73	1.00000		
NUCLIDE 74	AS 73	0.105560E-06	0.0	0.370000E 00	0.0	0.0
		0.0	0.0	0.666000E-11	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
	4 SE 73M	1.00000	4 SE 73	1.00000		
NUCLIDE 75	SE 73M	0.275058E-03	0.0	0.270000E 01	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
NUCLIDE 76	SE 73	0.271184E-05	0.0	0.275000E 01	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
NUCLIDE 77	FE 74	0.598930E-01	0.0	0.127340E 02	0.0	0.0
		0.376000E-09	0.248000E-08	0.769000E-09	0.228000E-08	0.134000E-07
		0.185000E-09	0.0	0.430000E-10	0.113000E-10	0.474000E-08
NUCLIDE 78	CO 74	0.429670E-02	0.0	0.152750E 02	0.0	0.0
		0.546000E-06	0.384000E-05	0.315000E-05	0.109000E-05	0.168000E-04
		0.411000E-06	0.0	0.499000E-07	0.222000E-06	0.315000E-05
	1 FE 74	1.00000				
NUCLIDE 79	NI 74	0.221020E 00	0.0	0.615470E 01	0.0	0.0
		0.419000E-04	0.311000E-03	0.841000E-03	0.302000E-04	0.111900E-02
		0.469000E-04	0.0	0.297000E-05	0.347000E-04	0.118000E-03
	1 CO 74	1.00000				
NUCLIDE 80	CU 74	0.854780E-00	0.0	0.975510E 01	0.0	0.0
		0.250000E-03	0.194200E-02	0.844500E-02	0.883000E-04	0.601400E-02
		0.384000E-03	0.0	0.147000E-04	0.368000E-03	0.417000E-03
	1 NI 74	1.00000				
NUCLIDE 81	ZN 74	0.269940E-04	0.0	0.845090E 00	0.0	0.0
		0.338000E-03	0.266500E-02	0.160610E-01	0.979000E-04	0.783800E-02
		0.384000E-03	0.0	0.147000E-04	0.368000E-03	0.417000E-03
	1 CU 74	1.00000				
NUCLIDE 82	GA 74	0.119097E-02	0.0	0.560000E 01	0.111510E 01	0.295000E 01
		0.341000E-03	0.268900E-02	0.166510E-01	0.980000E-04	0.788700E-02
		0.394000E-03	0.0	0.187000E-04	0.644000E-03	0.484000E-03
	1 ZN 74	1.00000				
NUCLIDE 83	GE 74	0.0	0.0	0.0	0.0	0.0
		0.341000E-03	0.268900E-02	0.166540E-01	0.980000E-04	0.788700E-02
		0.394000E-03	0.0	0.187000E-04	0.644000E-03	0.484000E-03
	1 GA 74	1.00000	4 AS 74	0.67300		
NUCLIDE 84	AS 74M	0.866434E-01	0.0	0.283000E 00	0.0	0.283000E 00
		0.0	0.182000E-11	0.316000E-09	0.0	0.247000E-11
		0.146000E-11	0.0	0.0	0.494000E-11	0.0
NUCLIDE 85	AS 74	0.453291E-06	0.0	0.217900E 01	0.127260E 00	0.467000E 00
		0.0	0.364000E-11	0.631000E-09	0.0	0.494000E-11
		0.291000E-11	0.0	0.0	0.988000E-11	0.0
	2 AS 74M	1.00000				

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NUCLIDE	86	SE 74	0.0 0.0 0.0 1 AS 74 0.32700	0.0 0.119000E-11 0.0	0.0 0.206000E-09 0.0	0.0 0.0 0.323000E-11 0.0	0.0 0.162000E-11 0.0
NUCLIDE	87	CO 75	0.225270E 02 0.162000E-06 0.682000E-07	0.0 0.111000E-05 0.0	0.137880E 02 0.281000E-06 0.187000E-07	0.0 0.494000E-06 0.489000E-07	0.0 0.261000E-05 0.139000E-05
NUCLIDE	88	NI 75	0.203980E 01 0.382000E-04 0.243000E-04 1 CO 75 1.00000	0.0 0.277000E-03 0.0	0.952440E 01 0.181000E-03 0.320000E-05	0.0 0.400000E-04 0.241000E-04	0.0 0.531000E-03 0.150000E-03
NUCLIDE	89	CU 75	0.606440E 02 0.570000E-03 0.518000E-03 1 NI 75 1.00000	0.0 0.435100E-02 0.0	0.160590E 02 0.657600E-02 0.364000E-04	0.0 0.250000E-03 0.687000E-03	0.0 0.699900E-02 0.116700E-02
NUCLIDE	90	ZN 75	0.100000E 01 0.115600E-02 0.128600E-02 1 CU 75 1.00000	0.0 0.907100E-02 0.0	0.0 0.229050E-01 0.643000E-04	0.0 0.343000E-03 0.204100E-02	0.0 0.133110E-01 0.174500E-02
NUCLIDE	91	GA 75	0.608024E-02 0.120800E-02 0.138400E-02 1 ZN 75 1.00000	0.0 0.951200E-02 0.0	0.330000E 01 0.263990E-01 0.662000E-04	0.142560E 01 0.346000E-03 0.227200E-02	0.556000E-02 0.138000E-01 0.177000E-02
NUCLIDE	92	GE 75M	0.150684E-01 0.485000E-04 0.558000E-04 1 GA 75 0.04000	0.0 0.382000E-03 0.0	0.139000E 00 0.108100E-02 0.269000E-05	0.0 0.139000E-04 0.921000E-04	0.139000E 00 0.553000E-03 0.708000E-04
NUCLIDE	93	GE 75	0.139522E-03 0.120800E-02 0.138500E-02 1 GA 75 0.96000 2 GE 75M 1.00000	0.0 0.951400E-02 0.0	0.120000E 01 0.264500E-01 0.662000E-04	0.388370E 00 0.346000E-03 0.227400E-02	0.139500E 00 0.138020E-01 0.177000E-02
NUCLIDE	94	AS 75	0.0 0.120800E-02 0.138500E-02 1 GE 75 1.00000 4 SE 75 1.00000	0.0 0.951400E-02 0.0	0.0 0.264500E-01 0.662000E-04	0.0 0.346000E-03 0.227400E-02	0.0 0.138020E-01 0.177000E-02
NUCLIDE	95	SE 75	0.666324E-07 0.0 0.0 1 BR 75 1.00000	0.0 0.0 0.0	0.865000E 00 0.133000E-11 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE	96	BR 75	0.120338E-04 0.0 0.0	0.0 0.0 0.0	0.301000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE	97	FE 76	0.996070E 01 0.176000E-11 0.0	0.0 0.117000E-10 0.0	0.142450E 02 0.0 0.0	0.0 0.249000E-10 0.0	0.0 0.189000E-10 0.441000E-10
NUCLIDE	98	CO 76	0.923240E 04 0.271000E-07 0.677000E-08 1 FE 76 1.00000	0.0 0.191000E-06 0.0	0.170640E 02 0.181000E-07 0.329000E-08	0.0 0.123000E-06 0.563000E-08	0.0 0.249000E-06 0.304000E-06
NUCLIDE	99	NI 76	0.645760E 00 0.197000E-04 0.773000E-05 1 CO 76 1.00000	0.0 0.147000E-03 0.0	0.779500E 01 0.327000E-04 0.177000E-05	0.0 0.297000E-04 0.697000E-05	0.0 0.156000E-03 0.102000E-03
NUCLIDE	100	CU 76	0.173170E 01 0.798000E-03 0.473000E-03 1 NI 76 1.00000	0.0 0.629200E-02 0.0	0.106130E 02 0.342100E-02 0.548000E-04	0.0 0.455000E-03 0.748000E-03	0.0 0.551600E-02 0.206600E-02
NUCLIDE	101	ZN 76	0.268520E-01 0.299500E-04 0.238800E-02 1 CU 76 1.00000	0.0 0.245180E-01 0.0	0.386790E 01 0.260950E-01 0.171000E-03	0.0 0.935000E-03 0.477400E-02	0.0 0.188650E-01 0.497600E-02
NUCLIDE	102	GA 76	0.216608E-01 0.551500E-02 0.303000E-02 1 ZN 76 1.00000	0.0 0.290610E-01 0.0	0.600000E 01 0.386620E-01 0.193000E-03	0.249600E 01 0.979000E-03 0.660500E-02	0.507900E 00 0.216500E-01 0.532900E-02
NUCLIDE	103	GE 76	0.0 0.323000E-02 0.306700E-02 1 GA 76 1.00000	0.0 0.291390E-01 0.0	0.0 0.391850E-01 0.193000E-03	0.0 0.979000E-03 0.666600E-02	0.0 0.216890E-01 0.533100E-02
NUCLIDE	104	AS 76	0.729322E-05 0.714000E-08 0.218000E-07	0.0 0.701000E-07 0.0	0.297000E 01 0.123000E-05 0.163000E-09	0.105770E 01 0.669000E-10 0.114000E-06	0.445500E 00 0.285000E-07 0.104000E-08
NUCLIDE	105	SE 76	0.0 0.714000E-08 0.218000E-07 1 AS 76 1.00000	0.0 0.701000E-07 0.0	0.0 0.123000E-05 0.163000E-09	0.0 0.669000E-10 0.114000E-06	0.0 0.285000E-07 0.104000E-08
NUCLIDE	106	NI 77	0.549700E 01 0.299000E-02 0.199000E-05	0.0 0.245000E-04 0.261000E-05	0.110950E 02 0.386000E-05 0.585000E-06	0.0 0.186000E-04 0.140000E-05	0.0 0.296000E-04 0.344000E-04
NUCLIDE	107	CU 77	0.130320E 01 0.362000E-03 0.375000E-03 1 NI 77 1.00000	0.0 0.314100E-02 0.517000E-03	0.888940E 01 0.125700E-02 0.531000E-04	0.0 0.795000E-03 0.371000E-03	0.0 0.309800E-02 0.199700E-02

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NUCLIDE 108	ZN 77	0.664090E-01 0.309600E-02 0.453500E-02 1 CU 77 1.00000	0.0 0.281590E-01 0.664100E-02	0.114230E-02 0.248170E-01 0.362000E-03	0.0 0.309900E-02 0.612400E-02	0.0 0.236350E-01 0.967100E-02
NUCLIDE 109	GA 77	0.407734E-01 0.481100E-02 0.831000E-02 1 ZN 77 1.00000	0.0 0.446360E-01 0.124730E-01	0.0 0.588730E-01 0.514000E-03	0.0 0.367300E-02 0.131260E-01	0.0 0.350160E-01 0.121950E-01
NUCLIDE 110	GE 77M	0.126027E-01 0.432500E-02 0.135000E-03	0.0 0.415000E-03 0.220000E-03	0.224900E-01 0.201300E-02 0.275000E-03	0.420000E-00 0.490000E-05 0.344000E-03	0.834000E-01 0.237000E-03 0.294000E-04
NUCLIDE 111	GE 77	0.170390E-04 0.555800E-02 0.846600E-04 1 GA 77 1.00000	0.0 0.451170E-01 0.127260E-01	0.275000E-01 0.612080E-01 0.517000E-03	0.618410E-00 0.379000E-02 0.135260E-01	0.117970E-01 0.352910E-01 0.122290E-01
NUCLIDE 112	AS 77	0.496239E-05 0.919200E-04 0.858100E-02 1 GE 77 1.00000	0.0 0.454680E-01 0.129150E-01	0.680000E-00 0.629290E-01 0.519000E-03	0.227480E-00 0.379400E-02 0.176950E-01	0.104470E-01 0.354910E-01 0.126340E-01
NUCLIDE 113	SE 77M	0.391609E-01 0.239000E-04 0.223000E-04 1 AS 77 0.00260	0.0 0.118000E-03 0.350000E-04	0.161000E-00 0.144000E-03 0.135000E-03	0.0 0.786000E-05 0.460000E-04	0.161000E-00 0.923000E-04 0.328000E-04
NUCLIDE 114	SE 77	0.0 0.919200E-04 0.858100E-02 1 AS 77 0.99740	0.0 0.454680E-01 0.145680E-01	0.0 0.629290E-01 0.519000E-03	0.0 0.379400E-02 0.476950E-01	0.0 0.354910E-01 0.126340E-01
NUCLIDE 115	BR 77M	0.268662E-02 0.0 0.0 4 KR 77 0.20000	0.0 0.0 0.0	0.108000E-00 0.0 0.0	0.0 0.0 0.0	0.108000E-00 0.0 0.0
NUCLIDE 116	BR 77	0.343823E-05 0.0 0.0 2 BR 77M 1.00000	0.0 0.0 0.0	0.136500E-01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 117	KR 77	0.160451E-03 0.0 0.0	0.0 0.0 0.0	0.270000E-01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 118	NI 78	0.148480E-01 0.333000E-04 0.384000E-06	0.0 0.282000E-05 0.434000E-06	0.936450E-01 0.274000E-06 0.808000E-06	0.0 0.820000E-05 0.502000E-06	0.0 0.377000E-05 0.975000E-05
NUCLIDE 119	CU 78	0.541940E-01 0.107700E-02 0.227000E-03 1 NI 78 1.00000	0.0 0.113100E-02 0.271000E-03	0.121630E-02 0.291000E-03 0.227000E-03	0.0 0.102000E-02 0.424000E-03	0.0 0.119300E-02 0.166600E-02
NUCLIDE 120	ZN 78	0.857840E-01 0.770700E-02 0.758600E-02 1 CU 78 1.00000	0.0 0.267430E-01 0.959100E-02	0.499610E-01 0.163960E-01 0.394000E-02	0.0 0.893600E-02 0.196620E-01	0.0 0.229440E-01 0.189550E-01
NUCLIDE 121	GA 78	0.173287E-00 0.167030E-01 0.250260E-01 1 ZN 78 1.00000	0.0 0.708420E-01 0.327990E-01	0.841330E-01 0.778190E-01 0.864700E-02	0.0 0.140230E-01 0.811770E-01	0.0 0.536210E-01 0.335150E-01
NUCLIDE 122	GE 78	0.132787E-03 0.193430E-01 0.284840E-01 1 GA 78 1.00000	0.0 0.770730E-01 0.376420E-01	0.990000E-00 0.975160E-01 0.917900E-02	0.243820E-00 0.142720E-01 0.477190E-01	0.278020E-00 0.571550E-01 0.344760E-01
NUCLIDE 123	AS 78	0.126672E-03 0.203450E-01 0.282290E-01 1 GE 78 1.00000	0.0 0.771490E-01 0.371100E-01	0.430000E-01 0.979620E-01 0.918200E-02	0.142880E-01 0.142730E-01 0.980260E-01	0.101000E-01 0.571800E-01 0.344790E-01
NUCLIDE 124	SE 78	0.0 0.203450E-01 0.282290E-01 1 AS 78 1.00000	0.0 0.771490E-01 0.371100E-01	0.0 0.979620E-01 0.918200E-02	0.0 0.142730E-01 0.980270E-01	0.0 0.571800E-01 0.344790E-01
NUCLIDE 125	BR 78	0.180507E-02 0.460000E-08 0.100000E-11	0.0 0.168000E-11	0.357000E-01 0.313000E-10 0.0	0.0 0.0 0.141000E-10	0.0 0.0 0.0
NUCLIDE 126	KR 78	0.0 0.183000E-11 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 127	CU 79	0.369540E-01 0.124000E-03 0.233000E-04	0.0 0.172000E-03 0.564000E-04	0.104370E-02 0.461000E-04 0.470000E-04	0.0 0.628000E-03 0.830000E-04	0.0 0.418000E-03 0.529000E-03
NUCLIDE 128	ZN 79	0.818240E-00 0.804000E-02 0.230300E-04 1 CU 79 1.00000	0.0 0.118150E-01 0.590900E-02	0.827440E-01 0.787300E-02 0.224400E-02	0.0 0.145390E-01 0.115920E-01	0.0 0.224270E-01 0.163560E-01
NUCLIDE 129	GA 79	0.114360E-00 0.423070E-01 0.167880E-01 1 ZN 79 1.00000	0.0 0.648410E-01 0.490730E-01	0.611110E-01 0.895610E-01 0.948000E-02	0.0 0.378470E-01 0.111520E-00	0.0 0.106630E-00 0.516800E-01

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NUCLIDE 130	GE 79	0.115525E-01 0.547610E-01 0.244290E-01 1 GA 79 1.00000	0.0 0.850980E-01 0.667790E-01	0.406100E 01 0.138350E 00 0.114340E-01	0.0 0.410690E-01 0.82370E 00	0.0 0.132810E 00 0.579600E-01
NUCLIDE 131	AS 79	0.128361E-02 0.550850E-01 0.247300E-01 1 GE 79 1.00000	0.0 0.856560E-01 0.676620E-01	0.210400E 01 0.162890E 00 0.114720E-01	0.847890E 00 0.410980E-01 0.86240E 00	0.310000E-01 0.133390E 00 0.576370E-01
NUCLIDE 132	SE 79M	0.296217E-02 0.550850E-01 0.247300E-01 1 AS 79 1.00000	0.0 0.856560E-01 0.676630E-01	0.960000E-01 0.162900E 00 0.114720E-01	0.0 0.410980E-01 0.86250E 00	0.960000E-01 0.133390E 00 0.576370E-01
NUCLIDE 133	SE 79	0.338147E-12 0.550850E-01 0.247300E-01 1 SE 79M 1.00000	0.408230E-24 0.856560E-01 0.676640E-01	0.154000E 00 0.162910E 00 0.114720E-01	0.428240E-01 0.410980E-01 0.86250E 00	0.0 0.133390E 00 0.576370E-01
NUCLIDE 134	BR 79M	0.143212E 00 0.154000E-10 0.357000E-10	0.0 0.300000E-10 0.121000E-09	0.210000E 00 0.169000E-08 0.0	0.0 0.0 0.947000E-09	0.210000E 00 0.190000E-10 0.0
NUCLIDE 135	BR 79	0.0 0.550850E-01 0.247300E-01 1 SE 79 1.00000	0.0 0.856560E-01 0.676640E-01	0.0 0.162910E 00 0.114720E-01	0.0 0.410980E-01 0.86250E 00	0.0 0.133390E 00 0.576370E-01
NUCLIDE 136	KR 79M	0.138629E-01 0.0 0.0	0.0 0.0 0.0	0.127000E 00 0.0 0.0	0.0 0.0 0.0	0.127000E 00 0.0 0.0
NUCLIDE 137	KR 79	0.551693E-05 0.0 0.0 2 KR 79M 1.00000	0.0 0.0 0.0	0.162000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 138	KB 79	0.502281E-03 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 139	NI 80	0.720340E 04 0.483000E-08 0.483000E-09	0.0 0.766000E-08 0.873000E-09	0.132630E 02 0.286000E-09 0.434000E-08	0.0 0.164000E-06 0.729000E-09	0.0 0.212000E-07 0.109000E-06
NUCLIDE 140	CU 80	0.550140E 04 0.192000E-04 0.315000E-05 1 NI 80 1.00000	0.0 0.323000E-04 0.604000E-05	0.160410E 02 0.323000E-05 0.123000E-04	0.0 0.199000E-03 0.684000E-05	0.0 0.681000E-04 0.185000E-03
NUCLIDE 141	ZN 80	0.300420E 00 0.379000E-02 0.994000E-03 1 CU 80 1.00000	0.0 0.677400E-02 0.202400E-02	0.658540E 01 0.173900E-02 0.176700E-02	0.0 0.128840E-01 0.308400E-02	0.0 0.109760E-01 0.162990E-01
NUCLIDE 142	GA 80	0.606080E 00 0.487150E-01 0.191320E-01 1 ZN 80 1.00000	0.0 0.914740E-01 0.409970E-01	0.936270E 01 0.537110E-01 0.174090E-01	0.0 0.677930E-01 0.811780E-01	0.0 0.118960E 00 0.108680E 00
NUCLIDE 143	GE 80	0.166130E-01 0.914890E-01 0.447120E-01 1 GA 80 1.00000	0.0 0.176170E 00 0.987360E-01	0.347960E 01 0.168020E 00 0.267750E-01	0.0 0.877490E-01 0.229230E 00	0.0 0.205540E 00 0.152820E 00
NUCLIDE 144	AS 80	0.462098E-01 0.947160E-01 0.476590E-01 1 GE 80 1.00000	0.0 0.182920E 00 0.105740E 00	0.600000E 01 0.189010E 00 0.294140E-01	0.250820E 01 0.882680E-01 0.252520E 00	0.446830E 00 0.210960E 00 0.154380E 00
NUCLIDE 145	SE 80	0.0 0.947310E-01 0.479800E-01 1 AS 80 1.00000	0.0 0.182950E 00 0.106700E 00	0.0 0.189260E 00 0.294460E-04	0.0 0.882690E-01 0.257760E 00	0.0 0.210970E 00 0.154390E 00
NUCLIDE 146	BR 80M	0.435613E-04 0.131000E-05 0.766000E-06	0.0 0.383000E-08 0.522200E-02	0.860000E-01 0.800000E-07 0.166000E-09	0.0 0.247000E-10 0.122000E-04	0.860000E-01 0.179000E-08 0.145000E-09
NUCLIDE 147	BR 80	0.656389E-03 0.262000E-05 0.153000E-05 2 BR 80M 1.00000	0.0 0.766000E-08 0.104430E-01	0.199800E 01 0.160000E-06 0.332000E-09	0.722650E 00 0.494000E-10 0.444000E-04	0.500000E-01 0.358000E-08 0.290000E-09
NUCLIDE 148	KR 80	0.0 0.239000E-05 0.140000E-05 1 BR 80 0.91400	0.0 0.700000E-08 0.955300E-02	0.0 0.146000E-06 0.303000E-09	0.0 0.452000E-10 0.223000E-04	0.0 0.327000E-08 0.265000E-09
NUCLIDE 149	CU 81	0.284940E 02 0.218000E-05 0.551000E-06	0.0 0.287000E-05 0.451000E-06	0.142960E 02 0.136000E-06 0.149000E-05	0.0 0.322000E-04 0.337000E-06	0.0 0.629000E-05 0.350000E-04
NUCLIDE 150	ZN 81	0.100440E 02 0.136400E-02 0.598000E-05 1 CU 81 1.00000	0.0 0.190500E-02 0.488000E-03	0.121750E 02 0.237000E-03 0.671000E-03	0.0 0.636200E-02 0.489000E-03	0.0 0.319400E-02 0.954600E-02
NUCLIDE 151	GA 81	0.403540E 00 0.482000E-01 0.305610E-01 1 ZN 81 1.00000	0.0 0.710470E-01 0.280430E-01	0.767830E 01 0.214950E-01 0.176660E-01	0.0 0.817790E-01 0.374970E-01	0.0 0.933020E-01 0.161600E 00

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NUCLIDE 152	GE 81	0.616580E-01 0.164840E 00 0.142140E 00 1 GA 81 1.00000	0.0 0.252040E 00 0.135840E 00	0.555650E 01 0.146550E 00 0.498860E-01	0.0 0.153580E 00 0.224150E 00	0.0 0.282520E 00 0.351250E 00
NUCLIDE 153	AS 81	0.216608E-01 0.189180E 00 0.177030E 00 1 GE 81 1.00000	0.0 0.291780E 00 0.171280E 00	0.380000E 01 0.207800E 00 0.549550E-01	0.166590E 01 0.159000E 00 0.302920E 00	0.0 0.315490E 00 0.370410E 00
NUCLIDE 154	SE 81M	0.202675E-03 0.734200E-02 0.402600E-02	0.0 0.294000E-03 0.412000E-03	0.103000E 00 0.400860E-01 0.254000E-04	0.0 0.122000E-04 0.129190E-01	0.103000E 00 0.189000E-03 0.597000E-04
NUCLIDE 155	SE 81	0.641803E-03 0.196690E 00 0.181440E 00 1 AS 81 1.00000	0.0 0.292370E 00 0.172110E 00 2 SE 81M 1.00000	0.158000E 01 0.248990E 00 0.550070E-01	0.607540E 00 0.159030E 00 0.317050E 00	0.668000E-02 0.315870E 00 0.370530E 00
NUCLIDE 156	BR 81	0.0 0.196690E 00 0.181440E 00 1 SE 81 1.00000	0.0 0.292370E 00 0.172110E 00 4 KR 81 1.00000	0.0 0.249000E 00 0.550070E-01	0.0 0.159030E 00 0.355570E 00	0.0 0.315870E 00 0.370530E 00
NUCLIDE 157	KR 81M	0.533190E-01 0.423000E-11 0.254000E-10 4 RB 81 0.75000	0.0 0.825000E-11 0.308000E-10	0.190000E 00 0.233000E-09 0.0	0.0 0.0 0.191000E-09	0.190000E 00 0.305000E-11 0.0
NUCLIDE 158	KR 81	0.104665E-12 0.846000E-11 0.508000E-10 2 KR 81M 1.00000	0.0 0.165000E-10 0.615000E-10 4 KR 81M 0.50000	0.0 0.467000E-09 0.0 4 RB 81 0.25000	0.0 0.0 0.382000E-09 0.0	0.0 0.610000E-11 0.0
NUCLIDE 159	RB 81M	0.361014E-03 0.0 0.0	0.0 0.0 0.0	0.120500E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 160	RB 81	0.409661E-04 0.0 0.0 2 RB 81M 0.50000	0.0 0.0 0.0	0.224000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 161	NI 82	0.113660E 04 0.483000E-05 0.0	0.0 0.304000E-11 0.0	0.146650E 02 0.0 0.241000E-11	0.0 0.258000E-09 0.0	0.0 0.110000E-10 0.262000E-09
NUCLIDE 162	CU 82	0.109960E 03 0.313000E-03 0.148000E-07 1 NI 82 1.00000	0.0 0.143000E-06 0.189000E-07	0.174240E 02 0.376000E-08 0.777000E-07	0.0 0.329000E-05 0.197000E-07	0.0 0.377000E-06 0.485000E-05
NUCLIDE 163	ZN 82	0.245810E 01 0.667200E-02 0.490000E-04 1 CU 82 1.00000	0.0 0.308000E-03 0.663000E-04	0.104650E 02 0.330000E-04 0.110000E-03	0.0 0.200000E-02 0.940000E-04	0.0 0.600000E-03 0.422000E-02
NUCLIDE 164	GA 82	0.109120E 02 0.498270E-01 0.814000E-02 1 ZN 82 1.00000	0.0 0.341780E-01 0.116610E-01	0.132230E 02 0.927700E-02 0.842900E-02	0.0 0.687940E-01 0.221420E-01	0.0 0.500830E-01 0.201320E 00
NUCLIDE 165	GE 82	0.280920E-01 0.148070E 00 0.903800E-01 1 GA 82 1.00000	0.0 0.272900E 00 0.139910E 00	0.390660E 01 0.161100E 00 0.503850E-01	0.0 0.231050E 00 0.330580E 00	0.0 0.319580E 00 0.847600E 00
NUCLIDE 166	AS 82	0.467098E-01 0.223860E 00 0.157960E 00 1 GE 82 1.00000	0.0 0.411900E 00 0.243140E 00	0.140220E 02 0.355170E 00 0.680950E-01	0.0 0.264050E 00 0.670410E 00	0.0 0.442110E 00 0.102580E 01
NUCLIDE 167	SE 82	0.0 0.243610E 00 0.162390E 00 1 AS 82 1.00000	0.0 0.418020E 00 0.250410E 00	0.0 0.375290E 00 0.686360E-01	0.0 0.264500E 00 0.700900E 00	0.0 0.446200E 00 0.102920E 01
NUCLIDE 168	BR 82M	0.189384E-02 0.227000E-04 0.729000E-04	0.0 0.765000E-05 0.121430E-01	0.850000E-01 0.846000E-04 0.464000E-06	0.871000E-02 0.159000E-06 0.527000E-03	0.555000E-01 0.380000E-05 0.174000E-05
NUCLIDE 169	BR 82	0.543901E-05 0.635000E-04 0.364700E-02 2 BR 82M 0.99000	0.0 0.152000E-04 0.241650E-01	0.309200E 01 0.209300E-02 0.924000E-06	0.139740E 00 0.317000E-06 0.947000E-03	0.264800E 01 0.757000E-05 0.275000E-03
NUCLIDE 170	KR 82	0.0 0.651000E-04 0.364800E-02 1 BR 82 1.00000	0.0 0.153000E-04 0.242410E-01 1 BR 82M 0.01000	0.0 0.209300E-02 0.925000E-06	0.0 0.318000E-06 0.122100E-02	0.0 0.761000E-05 0.275000E-03
NUCLIDE 171	ZN 83	0.206040E 02 0.472400E-02 0.283000E-05	0.0 0.214000E-04 0.343000E-05	0.135990E 02 0.264000E-05 0.173000E-04	0.0 0.269000E-03 0.411000E-05	0.0 0.497000E-04 0.647000E-03
NUCLIDE 172	GA 83	0.700840E 01 0.515910E-01 0.176800E-02 1 ZN 83 1.00000	0.0 0.881900E-02 0.227700E-02	0.115180E 02 0.283700E-02 0.486000E-04	0.0 0.315460E-01 0.368800E-02	0.0 0.148030E-01 0.107360E 00
NUCLIDE 173	GE 83	0.192100E 01 0.215060E 00 0.624760E-01 1 GA 83 1.00000	0.0 0.214470E 00 0.849550E-01	0.943680E 01 0.164320E 00 0.844030E-01	0.0 0.263750E 00 0.480880E 00	0.0 0.270540E 00 0.119200E 01

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NUCLIDE 174	AS 83	0.495105E-01 0.418000E-00 0.213660E-00 1 GE 83 1.00000	0.0 0.576210E-00 0.301340E-00	0.501770E 01 0.795960E 00 0.186080E 00	0.0 0.405780E 00 0.776630E 00	0.0 0.613920E 00 0.208330E 01
NUCLIDE 175	SE 83M	0.100456E-01 0.315130E 00 0.192320E 00 1 AS 83 0.64000	0.0 0.395320E 00 0.216640E 00	0.382000E 01 0.613260E 00 0.124360E 00	0.416500E 01 0.463000E 00 0.580740E 00	0.107000E 01 0.411670E 00 0.136190E 01
NUCLIDE 176	SE 83	0.502281E-03 0.207470E 00 0.126720E 00 1 AS 83 0.36000	0.0 0.233900E 00 0.132250E 00	0.360000E 01 0.390390E 00 0.722640E-01	0.522900E 00 0.149380E 00 0.366620E 00	0.223400E 01 0.239780E 00 0.778610E 00
NUCLIDE 177	BR 83	0.802254E-04 0.534630E 00 0.292170E 00 1 SE 83M 1.00000	0.0 0.629710E 00 0.349600E 00 1 SE 83 1.00000	0.928000E 00 0.100850E 01 0.196690E 00	0.327470E 00 0.412390E 00 0.950040E 00	0.740000E-02 0.651700E 00 0.214070E 01
NUCLIDE 178	KR 83M	0.103517E-03 0.535030E 00 0.292170E 00 1 BR 83 1.00000	0.0 0.629710E 00 0.349600E 00 4 KR 83 0.77000	0.418000E-01 0.100910E 01 0.196690E 00	0.0 0.412390E 00 0.951380E 00	0.418000E-01 0.651700E 00 0.214070E 01
NUCLIDE 179	KR 83	0.0 0.535410E 00 0.292170E 00 2 KR 83M 1.00000	0.0 0.629710E 00 0.349600E 00 4 KR 83 0.23000	0.0 0.101150E 01 0.196690E 00	0.0 0.412390E 00 0.400770E 01	0.0 0.651700E 00 0.214070E 01
NUCLIDE 180	RB 83	0.966571E-07 0.144000E-04 0.116000E-10 4 SR 83 1.00000	0.0 0.888000E-11 0.197000E-10	0.820000E 00 0.362000E-09 0.0	0.0 0.0 0.180000E-09	0.0 0.133000E-11 0.0
NUCLIDE 181	SR 83	0.594262E-05 0.401000E-07 0.0	0.0 0.0 0.0	0.221000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 182	ZN 84	0.438680E 01 0.104000E-05 0.115000E-06	0.0 0.951000E-06 0.115000E-06	0.118900E 02 0.523000E-07 0.997000E-06	0.0 0.273000E-04 0.27000E-06	0.0 0.273000E-05 0.485000E-04
NUCLIDE 183	GA 84	0.254290E 02 0.150500E-02 0.272000E-03 1 ZN 84 1.00000	0.0 0.146900E-02 0.288000E-03	0.146290E 02 0.214000E-03 0.100900E-02	0.0 0.113700E-01 0.447000E-03	0.0 0.301800E-02 0.294730E-01
NUCLIDE 184	GE 84	0.634930E 00 0.115360E 00 0.328860E-01 1 GA 84 1.00000	0.0 0.119120E 00 0.368860E-01	0.776610E 01 0.435450E-01 0.552620E-01	0.0 0.283890E 00 0.786370E-01	0.0 0.179730E 00 0.101360E 01
NUCLIDE 185	AS 84	0.119508E 00 0.689600E 00 0.281390E 00 1 GE 84 1.00000	0.0 0.743640E 00 0.330680E 00	0.105040E 02 0.573680E 00 0.257020E 00	0.0 0.775610E 00 0.916490E 00	0.0 0.888670E 00 0.340440E 01
NUCLIDE 186	SE 84	0.361014E-02 0.931940E 00 0.437180E 00 1 AS 84 1.00000	0.0 0.102460E 01 0.524170E 00	0.190000E 01 0.109100E 01 0.320110E 00	0.739650E 00 0.849080E 00 0.163960E 01	0.0 0.112770E 01 0.389070E 01
NUCLIDE 187	BR 84M	0.192541E-02 0.180590E-01 0.371700E-02	0.0 0.449900E-02 0.487400E-02	0.470000E 01 0.200430E-01 0.694000E-03	0.0 0.354000E-03 0.245130E-01	0.0 0.285900E-02 0.330300E-02
NUCLIDE 188	BR 84	0.363285E-03 0.939460E 00 0.440900E 00 1 SE 84 1.00000	0.0 0.102510E 01 0.529040E 00	0.470000E 01 0.111100E 01 0.320810E 00	0.138300E 01 0.849430E 00 0.166410E 01	0.149280E 01 0.116610E 01 0.389400E 01
NUCLIDE 189	KR 84	0.0 0.998110E 00 0.468300E 00 1 BR 84M 1.00000	0.0 0.102960E 01 0.533950E 00 1 BR 84 1.00000	0.0 0.120900E 01 0.340650E 00 4 RB 84M 0.50000	0.0 0.849790E 00 0.468880E 01 4 RB 84 0.97000	0.0 0.116900E 01 0.390730E 01 0.97000
NUCLIDE 190	RB 84M	0.577623E-03 0.514000E-09 0.134000E-08	0.0 0.697000E-09 0.199000E-08	0.180400E 01 0.173000E-07 0.455000E-10	0.0 0.395000E-11 0.194000E-07	0.0 0.241000E-09 0.771000E-10
NUCLIDE 191	RB 84	0.243107E-06 0.253000E-08 0.201000E-08 2 RB 84M 0.50000	0.0 0.105000E-08 0.299000E-08	0.262600E 01 0.259000E-07 0.682000E-10	0.934550E-02 0.595000E-11 0.491000E-07	0.665200E 00 0.362000E-09 0.116000E-09
NUCLIDE 192	SR 84	0.0 0.758000E-10 0.604000E-10 1 RB 84 0.03000	0.0 0.314000E-10 0.896000E-10	0.0 0.778000E-09 0.205000E-11	0.0 0.674000E-09	0.0 0.109000E-10 0.347000E-11
NUCLIDE 193	GA 85	0.224330E 04 0.150000E-04 0.162000E-04	0.0 0.109000E-03 0.149000E-04	0.137790E 02 0.131000E-04 0.762000E-04	0.0 0.109100E-02 0.217000E-04	0.0 0.173000E-03 0.219200E-02
NUCLIDE 194	GE 85	0.177880E 01 0.422800E-02 0.729900E-02 1 GA 85 1.00000	0.0 0.325880E-01 0.743300E-02	0.932370E 01 0.100900E-01 0.450540E-01	0.0 0.910460E-01 0.444180E-01	0.0 0.362080E-01 0.280660E 00
NUCLIDE 195	AS 85	0.330070E 00 0.734150E-01 0.192150E 00 1 GE 85 1.00000	0.0 0.595220E 00 0.198100E 00	0.800000E 01 0.431340E 00 0.143500E 00	0.0 0.580960E 00 0.237840E 00	0.0 0.488980E 00 0.251600E 01

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NUCLIDE 196	SE 85	0.177730E-01 0.111730E 01 0.54280E 00 1 AS 85 1.00000	0.0 0.135070E 01 0.578210E 00	0.500000E 01 0.18070E 01 0.363390E 00	0.0 0.803700E 00 0.790800E 01	0.0 0.941740E 00 0.398810E 01
NUCLIDE 197	BR 85	0.385082E-02 0.118150E 01 0.597720E 00 1 SE 85 1.00000	0.0 0.143320E 01 0.641200E 00	0.249500E 01 0.199210E 01 0.376210E 00	0.403590E 01 0.811140E 00 0.420880E 01	0.0 0.977770E 00 0.406230E 01
NUCLIDE 198	KR 85M	0.437593E-04 0.133150E 01 0.598140E 00 1 BR 85 1.00000	0.0 0.143350E 01 0.641540E 00	0.586000E 00 0.199480E 01 0.376240E 00	0.220000E 00 0.811150E 00 0.221110E 01	0.185000E 00 0.977860E 00 0.406240E 01
NUCLIDE 199	KR 85	0.204271E-06 0.285080E 00 0.143680E 00 2 KR 85M 0.21760	0.131730E-24 0.321390E 00 0.141800E 00	0.670000E 00 0.443270E 00 0.840870E-01	0.224190E 00 0.173020E 00 0.486330E 00	0.210740E-02 0.250460E 00 0.843800E 00
NUCLIDE 200	RB 85	0.0 0.133180E 01 0.598420E 00 1 KR 85M 0.78240	0.0 0.143380E 01 0.641880E 00 1 KR 85	0.0 0.199740E 01 0.376280E 00 1.00000 4 SR 85M	0.0 0.811170E 00 0.221330E 01 0.14000 4 SR 85	0.0 0.101150E 01 0.406250E 01 1.00000
NUCLIDE 201	SR 85M	0.165035E-03 0.118000E-11 0.321000E-11	0.0 0.150000E-11 0.486000E-11	0.392400E 00 0.401000E-09 0.0	0.0 0.0 0.571000E-10	0.0 0.0 0.0
NUCLIDE 202	SR 85	0.123996E-06 0.219000E-11 0.597000E-11 2 SR 85M 0.86000 4 Y 85M 1.00000 4 Y 85 1.00000	0.0 0.279000E-11 0.905000E-11 4 Y 85M	0.111000E 01 0.188000E-09 0.0 1.00000 4 Y 85	0.0 0.0 0.106000E-09 1.00000	0.0 0.0 0.0
NUCLIDE 203	Y 85M	0.713114E-04 0.0 0.0	0.0 0.0 0.0	0.330000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 204	Y 85	0.385082E-04 0.0 0.0	0.0 0.0 0.0	0.326000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 205	ZN 86	0.721400E 01 0.121000E-09 0.162000E-10	0.0 0.211000E-09 0.144000E-10	0.132670E 02 0.382000E-11 0.366000E-09	0.0 0.209000E-07 0.777000E-10	0.0 0.780000E-09 0.180000E-07
NUCLIDE 206	GA 86	0.552150E 02 0.168600E-02 0.574000E-06 1 ZN 86 1.00000	0.0 0.486000E-05 0.544000E-06	0.160480E 02 0.382000E-06 0.529000E-05	0.0 0.120000E-03 0.773000E-06	0.0 0.120000E-04 0.169000E-03
NUCLIDE 207	GE 86	0.137980E 01 0.564930E-01 0.943000E-03 1 GA 86 1.00000	0.0 0.522500E-02 0.949000E-03	0.949370E 01 0.102600E-02 0.362000E-02	0.0 0.337100E-01 0.665000E-02	0.0 0.871700E-02 0.762990E-01
NUCLIDE 208	AS 86	0.116160E 02 0.496430E 00 0.808880E-01 1 GE 86 1.00000	0.0 0.302610E 00 0.862290E-01	0.133220E 02 0.147330E 00 0.138750E 00	0.0 0.585400E 00 0.146900E 00	0.0 0.352820E 00 0.200850E 01
NUCLIDE 209	SE 86	0.433217E-01 0.139610E 01 0.527590E 00 1 AS 86 1.00000	0.0 0.146580E 01 0.587870E 00	0.338580E 01 0.145120E 01 0.501400E 00	0.0 0.129060E 01 0.173960E 01	0.0 0.132360E 01 0.567140E 01
NUCLIDE 210	BR 86	0.128361E-01 0.187320E 01 0.735780E 00 1 SE 86 1.00000	0.0 0.184830E 01 0.833550E 00	0.710000E 01 0.259880E 01 0.563070E 00	0.0 0.136370E 01 0.278850E 01	0.0 0.155360E 01 0.624770E 01
NUCLIDE 211	KR 86	0.0 0.193780E 01 0.742930E 00 1 BR 86 1.00000	0.0 0.185750E 01 0.842470E 00 3 KR 85 1.00000	0.0 0.245200E 01 0.584320E 00 1.00000	0.0 0.236420E 01 0.284620E 01	0.0 0.155730E 01 0.625560E 01
NUCLIDE 212	RB 86M	0.115525E-01 0.107400E-02 0.684000E-05	0.0 0.560000E-05 0.906000E-05	0.560000E 00 0.870000E-04 0.498000E-06	0.0 0.755000E-07 0.217880E-01	0.560000E 00 0.158000E-05 0.721000E-03
NUCLIDE 213	RB 86	0.429932E-06 0.110100E-02 0.137000E-06 2 RB 86M 1.00000	0.0 0.112000E-04 0.161000E-04	0.178000E 01 0.174000E-03 0.998000E-06	0.950000E 00 0.151000E-06 0.433760E-01	0.950000E-01 0.316000E-05 0.144100E-02
NUCLIDE 214	SR 86	0.0 0.120800E-02 0.137000E-04 1 RB 86 1.00000	0.0 0.112000E-04 0.181000E-04	0.0 0.174000E-03 0.998000E-06	0.0 0.151000E-06 0.435840E-01	0.0 0.316000E-05 0.144100E-02
NUCLIDE 215	GE 87	0.104340E 02 0.570000E-03 0.723000E-04	0.0 0.518000E-03 0.731000E-04	0.122470E 02 0.587000E-04 0.389000E-03	0.0 0.468500E-02 0.522000E-04	0.0 0.939000E-03 0.680400E-02
NUCLIDE 216	AS 87	0.462098E 00 0.106320E 00 0.215570E-01 1 GE 87 1.00000	0.0 0.102410E 00 0.231090E-01	0.103520E 02 0.298310E-01 0.449770E-01	0.0 0.249910E 00 0.257150E-01	0.0 0.123780E 00 0.654550E 00
NUCLIDE 217	SE 87	0.119508E 00 0.130110E 01 0.393980E 00 1 AS 87 1.00000	0.0 0.131630E 01 0.444610E 00	0.800000E 01 0.873350E 00 0.448170E 00	0.0 0.113910E 01 0.735050E 00	0.0 0.113590E 01 0.466620E 01

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NUCLIDE 218	BR 87	0.124667E-01 0.224880E 01 0.899000E 00 1 SE 87 1.00000	0.0 0.247410E 01 0.103900E 01	0.800000E 01 0.263880E 01 0.707240E 00	0.167500E 01 0.141030E 01 0.217720E 01	0.378000E 01 0.181900E 01 0.673060E 01
NUCLIDE 219	KR 87	0.152006E-03 0.236710E 01 0.948650E 00 1 BR 87 1.00000	0.0 0.255930E 01 0.110750E 01	0.389000E 01 0.294670E 01 0.720390E 00	0.135460E 01 0.141610E 01 0.308890E 01	0.740000E 00 0.185440E 01 0.680970E 01
NUCLIDE 220	RB 87	0.439591E-04 0.255540E 01 0.949020E 00 1 KR 87 1.00000	0.0 0.255970E 01 0.110800E 01	0.274000E 00 0.295020E 01 0.720430E 00	0.790000E-01 0.141610E 01 0.397440E 01	0.0 0.185450E 01 0.680990E 01
NUCLIDE 221	SR 87M	0.680356E-04 0.397000E-07 0.636000E-07	0.0 0.439000E-07 0.898000E-07	0.388000E 00 0.104000E-05 0.268000E-08	0.0 0.180000E-09 0.152000E-05	0.388000E 00 0.767000E-08 0.882000E-08
NUCLIDE 222	SR 87	0.0 0.255540E 01 0.949020E 00 1 RB 87 1.00000	0.0 0.255970E 01 0.110800E 01	0.0 0.295020E 01 0.720430E 00	0.0 0.141610E 01 0.399020E 01	0.0 0.185450E 01 0.680990E 01
NUCLIDE 223	Y 87M	0.148108E-04 0.0 0.0 4 ZR 87 1.00000	0.0 0.0 0.149000E-11	0.381000E 00 0.285000E-10 0.0	0.0 0.0 0.404000E-10	0.381000E 00 0.0 0.0
NUCLIDE 224	Y 87	0.240676E-05 0.0 0.198000E-11 2 Y 87M 1.00000	0.0 0.0 0.298000E-11	0.170000E 01 0.569000E-10 0.0	0.0 0.0 0.808000E-10	0.0 0.0 0.0
NUCLIDE 225	ZR 87	0.120338E-03 0.0 0.0	0.0 0.0 0.0	0.311900E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 226	GE 88	0.251320E 01 0.330000E-04 0.353000E-03	0.0 0.269000E-04 0.304000E-03	0.105160E 02 0.173000E-05 0.225000E-04	0.0 0.415000E-03 0.228000E-05	0.0 0.361000E-04 0.263000E-03
NUCLIDE 227	AS 88	0.107360E 02 0.226120E-01 0.378800E-04 1 GE 88 1.00000	0.0 0.195530E-01 0.346600E-02	0.131970E 02 0.330700E-02 0.113170E-01	0.0 0.752420E-01 0.463600E-02	0.0 0.260400E-01 0.105250E 00
NUCLIDE 228	SE 88	0.301870E 00 0.868670E 00 0.219390E 00 1 AS 88 1.00000	0.0 0.791360E 00 0.212230E 00	0.659240E 01 0.327090E 00 0.297890E 00	0.0 0.898330E 00 0.485470E 00	0.0 0.703880E 00 0.249340E 01
NUCLIDE 229	BR 88	0.433217E-01 0.131190E 01 0.106270E 01 1 SE 88 1.00000	0.0 0.296880E 01 0.107120E 01	0.100000E 02 0.236470E 01 0.841160E 00	0.0 0.462670E 01 0.370330E 01	0.0 0.202100E 01 0.659480E 01
NUCLIDE 230	KR 88	0.690111E-04 0.364200E 01 0.134000E 01 1 BR 88 1.00000	0.0 0.348470E 01 0.136610E 01	0.280000E 01 0.347010E 01 0.946640E 00	0.387950E 00 0.167740E 01 0.348660E 01	0.177840E 01 0.223370E 01 0.717670E 01
NUCLIDE 231	RB 88	0.652681E-03 0.364920E 01 0.134650E 01 1 KR 88 1.00000	0.0 0.349310E 01 0.137540E 01	0.530000E 01 0.351280E 01 0.927570E 00	0.215910E 01 0.167760E 01 0.256080E 01	0.473000E 00 0.223390E 01 0.718200E 01
NUCLIDE 232	SR 88	0.0 0.364920E 01 0.134650E 01 1 RB 88 1.00000	0.0 0.349310E 01 0.137550E 01	0.0 0.351290E 01 0.927520E 00	0.0 0.167760E 01 0.256400E 01	0.0 0.223390E 01 0.718200E 01
NUCLIDE 233	Y 88	0.752583E-07 0.214000E-09 0.488000E-09 4 ZR 88 1.00000	0.0 0.280000E-09 0.646000E-09	0.362100E 01 0.101000E-07 0.110000E-10	0.0 0.0 0.198000E-07	0.0 0.300000E-10 0.523000E-10
NUCLIDE 234	ZR 88	0.943828E-07 0.0 0.0	0.0 0.0 0.0	0.500000E 00 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 235	AS 89	0.689640E 01 0.108300E-01 0.283000E-03	0.0 0.172400E-02 0.284000E-03	0.114900E 02 0.155000E-03 0.957000E-03	0.0 0.216730E-01 0.122000E-03	0.0 0.362700E-02 0.732800E-02
NUCLIDE 236	SE 89	0.199070E 01 0.510190E 00 0.575290E-01 1 AS 89 1.00000	0.0 0.262090E 00 0.611910E-01	0.948870E 01 0.602880E-01 0.821450E-01	0.0 0.766980E 00 0.549390E-01	0.0 0.311430E 00 0.725300E 00
NUCLIDE 237	BR 89	0.154033E 00 0.332450E 01 0.757890E 00 1 SE 89 1.00000	0.0 0.270760E 01 0.847110E 00	0.900000E 01 0.139120E 01 0.535800E 00	0.0 0.262310E 01 0.144620E 01	0.0 0.203130E 01 0.528810E 01
NUCLIDE 238	KR 89	0.363285E-02 0.464490E 01 0.144130E 01 1 BR 89 1.00000	0.0 0.457430E 01 0.163450E 01	0.460000E 01 0.362130E 01 0.747230E 00	0.175850E 01 0.301030E 01 0.505900E 01	0.600000E 00 0.283290E 01 0.769480E 01
NUCLIDE 239	KB 89	0.760030E-03 0.481180E 01 0.150640E 01 1 KR 89 1.00000	0.0 0.468490E 01 0.171640E 01	0.392000E 01 0.392960E 01 0.754490E 00	0.598090E 00 0.301580E 01 0.562830E 01	0.239110E 01 0.286040E 01 0.778970E 01

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NUCLIDE 240	SR 89	0.157924E-06 0.481350E 01 0.166800E 01 1 RB 89 1.00000	0.0 0.468530E 01 0.171870E 01	0.146300E 01 0.395230E 01 0.724500E 00	0.553970E 00 0.301580E 01 0.275860E 01	0.0 0.286050E 01 0.778990E 01
NUCLIDE 241	Y 89M	0.441495E-01 0.434000E-03 0.150000E-03 1 SR 89 0.00000	0.0 0.422000E-03 0.155000E-03	0.910000E 00 0.355000E-03 0.675000E-04 4 LR 89 1.00000	0.0 0.471000E-03 0.223000E-03	0.910000E 00 0.257000E-03 0.701000E-03
NUCLIDE 242	Y 89	0.0 0.481350E 01 0.166800E 01 1 SR 89 0.99991	0.0 0.468530E 01 0.171870E 01	0.0 0.395230E 01 0.724500E 00	0.0 0.301580E 01 0.275860E 01	0.0 0.286050E 01 0.778990E 01
NUCLIDE 243	ZR 89M	0.275058E-02 0.143000E-09 0.0 1 NB 89M 1.00000	0.0 0.0 0.0	0.758000E 00 0.127000E-10 0.0	0.0 0.0 0.446000E-10	0.0 0.0 0.0
NUCLIDE 244	ZR 89	0.245588E-02 0.277000E-09 0.0 2 ZR 89M 0.94000	0.0 0.0 0.0	0.203400E 01 0.246000E-10 0.0	0.0 0.0 0.865000E-10	0.0 0.0 0.0
NUCLIDE 245	NB 89M	0.169889E-03 0.0 0.0	0.0 0.0 0.0	0.470000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 246	NB 89	0.101337E-03 0.0 0.0	0.0 0.0 0.0	0.390000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 247	AS 90	0.233850E 02 0.281213E-03 0.0	0.0 0.607325E-04 0.164376E-04	0.144830E 02 0.347921E-05 0.137580E-04	0.0 0.156663E-02 0.113961E-03	0.0 0.169641E-03 0.222147E-05
NUCLIDE 248	SE 90	0.655380E 00 0.739782E-01 0.0 1 AS 90 1.00000	0.0 0.378647E-01 0.119027E-01	0.722100E 01 0.566081E-02 0.105781E-01	0.0 0.211786E 00 0.338301E-01	0.0 0.583650E-01 0.479659E-02
NUCLIDE 249	BR 90	0.433217E 00 0.351090E 01 0.480600E 00 1 SE 90 1.00000	0.0 0.133490E 01 0.451080E 00	0.105000E 02 0.484200E 00 0.617310E 00	0.0 0.198710E 01 0.229470E 00	0.0 0.121140E 01 0.232340E 01
NUCLIDE 250	KR 90	0.214597E-01 0.483250E 01 0.180300E 01 1 BR 90 1.00000	0.0 0.456540E 01 0.175770E 01	0.456000E 01 0.315820E 01 0.140090E 01	0.025000E 01 0.321650E 01 0.422760E 01	0.209170E 01 0.296250E 01 0.702050E 01
NUCLIDE 251	RB 90M	0.269917E-02 0.372610E 00 0.156670E 00	0.0 0.337020E 00 0.162640E 00	0.0 0.623140E 00 0.426230E-01	0.0 0.326940E-01 0.107920E 01	0.0 0.109070E 00 0.409630E 00
NUCLIDE 252	HB 90	0.427869E-02 0.591870E 01 0.211630E 01 1 KR 90 1.00000	0.0 0.523440E 01 0.208330E 01	0.660000E 01 0.440450E 01 0.146660E 01	0.126660E 01 0.328190E 01 0.638620E 01	0.325320E 01 0.318070E 01 0.783980E 01
NUCLIDE 253	SR 90	0.760538E-09 0.593530E 01 0.212140E 01 1 RB 90 1.00000	0.745610E-26 0.524840E 01 0.208890E 01	0.546000E 00 0.444730E 01 0.146710E 01	0.176390E 00 0.328210E 01 0.648120E 01	0.0 0.318240E 01 0.784910E 01
NUCLIDE 254	Y 90M	0.603576E-04 0.145000E-04 0.215000E-05	0.0 0.345000E-05 0.251000E-05	0.685000E 00 0.392000E-04 0.997000E-07	0.0 0.158000E-07 0.111000E-03	0.685000E 00 0.342000E-06 0.266000E-05
NUCLIDE 255	Y 90	0.300845E-05 0.593580E 01 0.212140E 01 1 SR 90 1.00000	0.0 0.524840E 01 0.208890E 01	0.227000E 01 0.444740E 01 0.146710E 01	0.925800E 00 0.328240E 01 0.648180E 01	0.0 0.318240E 01 0.784910E 01
NUCLIDE 256	ZR 90M	0.866434E 00 0.600000E-07 0.868000E-08 1 Y 90M 0.00400	0.0 0.139000E-07 0.101000E-07	0.232000E 01 0.160000E-06 0.400000E-09	0.0 0.533000E-10 0.457000E-06	0.232000E 01 0.137000E-08 0.107000E-07
NUCLIDE 257	ZR 90	0.0 0.593580E 01 0.212140E 01 1 Y 90 1.00000	0.0 0.524840E 01 0.208890E 01	0.0 0.444740E 01 0.146710E 01	0.0 0.228380E 01 0.648180E 01	0.0 0.318240E 01 0.784910E 01
NUCLIDE 258	NB 90M	0.288811E-01 0.0 0.0 4 MO 90 1.00000	0.0 0.0 0.0	0.120000E 00 0.0 0.0	0.0 0.0 0.0	0.120000E 00 0.0 0.0
NUCLIDE 259	NB 90	0.131877E-04 0.0 0.0 2 NB 90M 1.00000	0.0 0.0 0.0	0.611000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 260	MO 90	0.337791E-04 0.0 0.0	0.0 0.0 0.0	0.237000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 261	AS 91	0.142440E 02 0.201072E-02 0.0	0.0 0.104634E-05 0.362360E-06	0.128480E 02 0.331678E-07 0.312135E-06	0.0 0.172758E-04 0.465726E-05	0.0 0.393460E-05 0.0

NUCLIDE 262	SE 91	0.467170E 01 0.767390E-01 0.957000E-03 1 AS 91 1.00000	0.0 0.273600E-02 0.906000E-03	0.108210E 02 0.239000E-03 0.374900E-02	0.0 0.413260E-01 0.928000E-04	0.0 0.506900E-02 0.287400E-02
NUCLIDE 263	BR 91	0.123280E 01 0.895770E 00 0.137550E 00 1 SE 91 1.00000	0.0 0.360510E 00 0.137860E 00	0.881360E 01 0.800390E-01 0.217320E 00	0.0 0.127860E 01 0.515420E-01	0.0 0.377960E 00 0.425090E 00
NUCLIDE 264	KR 91	0.805985E-01 0.325340E 01 0.135490E 01 1 BR 91 1.00000	0.0 0.330840E 01 0.142410E 01	0.360000E 01 0.162150E 01 0.105270E 01	0.156350E 01 0.399990E 01 0.163310E 01	0.0 0.221120E 01 0.428790E 01
NUCLIDE 265	RB 91	0.119715E-01 0.555000E 01 0.223950E 01 1 KR 91 1.00000	0.0 0.529810E 01 0.240600E 01	0.550000E 01 0.414050E 01 0.132740E 01	0.204650E 01 0.449960E 01 0.488810E 01	0.900000E 00 0.315360E 01 0.716480E 01
NUCLIDE 266	SR 91	0.199112E-04 0.572220E 01 0.228920E 01 1 RB 91 1.00000	0.0 0.540110E 01 0.246420E 01 3 SR 90 1.00000	0.234300E 01 0.444820E 01 0.133370E 01	0.626980E 00 0.450560E 01 0.549820E 01	0.743000E 00 0.323110E 01 0.733070E 01
NUCLIDE 267	Y 91M	0.228761E-03 0.350220E 01 0.139670E 01 1 SR 91 0.61000	0.0 0.329480E 01 0.150320E 01	0.551000E 00 0.271450E 01 0.813590E 00	0.0 0.274840E 01 0.335650E 01	0.551000E 00 0.197100E 01 0.447200E 01
NUCLIDE 268	Y 91	0.136438E-06 0.578280E 01 0.238730E 01 1 SR 91 0.39000	0.0 0.540140E 01 0.246440E 01 2 Y 91M 1.00000	0.154500E 01 0.445050E 01 0.153380E 01	0.587930E 00 0.450560E 01 0.550340E 01	0.363000E-02 0.323110E 01 0.733130E 01
NUCLIDE 269	ZR 91	0.0 0.591750E 01 0.243180E 01 1 Y 91 1.00000	0.0 0.540140E 01 0.246440E 01 4 NB 91M 0.03000	0.0 0.445170E 01 0.176580E 01 4 NB 91 1.00000	0.0 0.450560E 01 0.642150E 01	0.0 0.323990E 01 0.733130E 01
NUCLIDE 270	NB 91M	0.129396E-06 0.674000E-06 0.0 1 MO 91M 0.43000	0.0 0.0 0.0	0.104500E 00 0.789000E-11 0.0	0.0 0.0 0.820000E-10	0.104500E 00 0.0 0.0
NUCLIDE 271	NB 91	0.100000E-19 0.133000E-05 0.0 4 MO 91 1.00000	0.0 0.0 0.0 2 NB 91M 0.97000	0.110000E 01 0.156000E-10 0.0	0.0 0.0 0.462000E-09	0.0 0.0 0.0
NUCLIDE 272	MO 91M	0.106638E-01 0.616000E-09 0.0	0.0 0.0 0.0	0.253100E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 273	MO 91	0.745801E-03 0.967000E-09 0.0 2 MO 91M 0.57000	0.0 0.0 0.0	0.446000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 274	SE 92	0.138040E 01 0.303300E-02 0.499000E-04	0.0 0.604000E-04 0.436000E-04	0.921560E 01 0.472000E-05 0.439000E-03	0.0 0.264900E-02 0.783000E-06	0.0 0.339000E-03 0.743000E-04
NUCLIDE 275	BR 92	0.418450E 01 0.171500E 00 0.268930E-01 1 SE 92 1.00000	0.0 0.389760E-01 0.249370E-01	0.117930E 02 0.798300E-02 0.867460E-01	0.0 0.302440E 00 0.436100E-02	0.0 0.980160E-01 0.479340E-01
NUCLIDE 276	KR 92	0.376710E 00 0.179800E 01 0.830590E 00 1 BR 92 1.00000	0.0 0.141500E 01 0.812660E 00	0.580000E 01 0.704810E 00 0.111500E 01	0.0 0.247090E 01 0.359310E 00	0.0 0.174610E 01 0.174020E 01
NUCLIDE 277	RB 92	0.154720E 00 0.505720E 01 0.259820E 01 1 KR 92 1.00000	0.0 0.492810E 01 0.263330E 01	0.760000E 01 0.352150E 01 0.204390E 01	0.0 0.376500E 01 0.271190E 01	0.0 0.372680E 01 0.606070E 01
NUCLIDE 278	SR 92	0.715765E-04 0.596030E 01 0.292270E 01 1 RB 92 1.00000	0.0 0.568000E 01 0.298220E 01	0.190000E 01 0.481330E 01 0.216780E 01	0.217130E 00 0.382350E 01 0.027090E 01	0.123500E 01 0.393900E 01 0.698590E 01
NUCLIDE 279	Y 92	0.565442E-04 0.596780E 01 0.292670E 01 1 SR 92 1.00000	0.0 0.569090E 01 0.298470E 01	0.363000E 01 0.485920E 01 0.216810E 01	0.145730E 01 0.382360E 01 0.642260E 01	0.244300E 00 0.396710E 01 0.699880E 01
NUCLIDE 280	ZR 92	0.0 0.599240E 01 0.292670E 01 1 Y 92 1.00000	0.0 0.569090E 01 0.298470E 01 4 NB 92M 1.00000	0.0 0.485930E 01 0.216810E 01 4 NB 92 1.00000	0.0 0.390980E 01 0.642310E 01	0.0 0.396710E 01 0.699880E 01
NUCLIDE 281	NB 92M	0.791958E-06 0.626000E-06 0.359000E-10	0.0 0.143000E-09 0.466000E-10	0.214500E 01 0.438000E-08 0.0	0.0 0.0 0.445000E-07	0.0 0.355000E-11 0.176000E-09
NUCLIDE 282	NB 92	0.627987E-10 0.626000E-06 0.359000E-10	0.0 0.143000E-09 0.466000E-10	0.201000E 01 0.438000E-08 0.0	0.0 0.0 0.445000E-07	0.0 0.355000E-11 0.176000E-09
NUCLIDE 283	MO 92	0.0 0.337000E-09 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0

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NUCLIDE 284	SR 93	0.316540E 01 0.689100E-02 0.278600E-04	0.0 0.205200E-02 0.243200E-02	0.101910E 02 0.457000E-03 0.140510E-01	0.0 0.510820E-01 0.171000E-03	0.0 0.961000E-02 0.638100E-02
NUCLIDE 285	KR 93	0.537323E 00 0.501330E 00 0.309040E 00 1 BR 93 1.00000	0.0 0.321500E 00 0.285700E 00	0.700000E 01 0.183070E 00 0.385210E 00	0.0 0.145900E 01 0.136080E 00	0.0 0.658680E 00 0.668610E 00
NUCLIDE 286	RB 93	0.118083E 00 0.369050E 01 0.248750E 01 1 KR 93 1.00000	0.0 0.340180E 01 0.238860E 01	0.700000E 01 0.217570E 01 0.223740E 01	0.0 0.433370E 01 0.204930E 01	0.0 0.315100E 01 0.510040E 01
NUCLIDE 287	SR 93	0.154033E-02 0.630840E 01 0.372430E 01 1 RB 93 1.00000	0.0 0.581160E 01 0.367490E 01	0.480000E 01 0.489110E 01 0.263890E 01	0.115600E 01 0.482240E 01 0.385340E 01	0.204500E 01 0.408910E 01 0.755640E 01
NUCLIDE 288	Y 93	0.188766E-04 0.641120E 01 0.377950E 01 1 SR 93 1.00000	0.0 0.595830E 01 0.373460E 01	0.289000E 01 0.528180E 01 0.264550E 01	0.117320E 01 0.482780E 01 0.682120E 01	0.945600E-01 0.411500E 01 0.762870E 01
NUCLIDE 289	ZR 93	0.231364E-13 0.641280E 01 0.377970E 01 1 Y 93 1.00000	0.133670E-24 0.595880E 01 0.373480E 01	0.610000E-01 0.528500E 01 0.280960E 01	0.162020E-01 0.482780E 01 0.683830E 01	0.0 0.411560E 01 0.765890E 01
NUCLIDE 290	NB 93M	0.161614E-08 0.609220E 01 0.359070E 01 1 ZR 93 0.95000	0.0 0.566090E 01 0.354800E 01 4 MO 93 0.85000	0.304000E-01 0.502070E 01 0.266910E 01	0.0 0.458650E 01 0.649630E 01	0.304000E-01 0.391050E 01 0.727590E 01
NUCLIDE 291	NB 93	0.0 0.641280E 01 0.377970E 01 1 ZR 93 0.05000	0.0 0.595880E 01 0.373480E 01 2 NR 93M 1.00000	0.0 0.528500E 01 0.280960E 01 4 MO 93 0.15000	0.0 0.482780E 01 0.683840E 01 0.15000	0.0 0.411870E 01 0.765890E 01
NUCLIDE 292	MO 93M	0.279045E-04 0.226000E-10 0.0	0.0 0.0 0.0	0.242800E 01 0.175000E-10 0.0	0.0 0.0 0.344000E-09	0.0 0.0 0.0
NUCLIDE 293	MO 93	0.732652E-11 0.453000E-10 0.0 2 MO 93M 1.00000	0.0 0.0 0.0 4 TC 93M 0.18000	0.420000E 00 0.350000E-10 0.0 4 TC 93 1.00000	0.0 0.0 0.0 0.689000E-09	0.0 0.0 0.0
NUCLIDE 294	TC 93M	0.268662E-03 0.0 0.0	0.0 0.0 0.0	0.984000E 00 0.0 0.0	0.0 0.0 0.0	0.799000E 00 0.0 0.0
NUCLIDE 295	TC 93	0.705278E-04 0.0 0.0 2 TC 93M 0.82000	0.0 0.0 0.0	0.319000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 296	SE 94	0.261360E 01 0.862000E-06 0.124000E-07	0.0 0.154000E-08 0.958000E-08	0.106080E 02 0.272000E-10 0.392000E-06	0.0 0.121000E-05 0.256000E-10	0.0 0.747000E-07 0.662000E-07
NUCLIDE 297	BR 94	0.104230E 02 0.830000E-03 0.116000E-03 1 SE 94 1.00000	0.0 0.285000E-04 0.957000E-04	0.131510E 02 0.136000E-05 0.119000E-02	0.0 0.495600E-02 0.141000E-03	0.0 0.484000E-03 0.416000E-03
NUCLIDE 298	KR 94	0.693147E 00 0.985180E-01 0.524180E-01 1 BR 94 1.00000	0.0 0.248370E-01 0.457880E-01	0.750000E 01 0.311600E-02 0.181110E 00	0.0 0.367580E 00 0.353100E-02	0.0 0.153060E 00 0.127710E 00
NUCLIDE 299	RB 94	0.259608E 00 0.160910E 01 0.137980E 01 1 KR 94 1.00000	0.0 0.118490E 01 0.127040E 01	0.900000E 01 0.265950E 00 0.187100E 01	0.0 0.321910E 01 0.451980E 00	0.0 0.209470E 01 0.239470E 01
NUCLIDE 300	SR 94	0.895539E-02 0.600000E 01 0.389610E 01 1 RB 94 1.00000	0.0 0.498860E 01 0.370960E 01	0.350000E 01 0.305950E 01 0.316080E 01	0.840790E 00 0.505130E 01 0.405160E 01	0.142000E 01 0.455250E 01 0.551420E 01
NUCLIDE 301	Y 94	0.569086E-03 0.639000E 01 0.429200E 01 1 SR 94 1.00000	0.0 0.603750E 01 0.415920E 01	0.500000E 01 0.470700E 01 0.323730E 01	0.182920E 01 0.314120E 01 0.642220E 01	0.846930E 00 0.0 0.586420E 01
NUCLIDE 302	ZR 94	0.0 0.643400E 01 0.429610E 01 1 Y 94 1.00000	0.0 0.605760E 01 0.419130E 01 3 ZR 93 1.00000	0.0 0.478350E 01 0.323760E 01	0.0 0.514140E 01 0.694160E 01	0.0 0.484040E 01 0.586660E 01
NUCLIDE 303	NB 94M	0.184344E-02 0.255000E-03 0.106000E-05	0.0 0.102000E-04 0.133000E-05	0.407000E-01 0.102000E-03 0.224000E-07	0.0 0.167000E-07 0.173000E-03	0.407000E-01 0.381000E-06 0.432000E-06
NUCLIDE 304	NB 94	0.109898E-11 0.309000E-03 0.211000E-05 2 NB 94M 0.99800	0.0 0.204000E-04 0.265000E-05	0.206000E 01 0.203000E-03 0.448000E-07	0.153590E 00 0.334000E-07 0.460000E-03	0.157300E 01 0.762000E-06 0.864000E-06
NUCLIDE 305	MO 94	0.0 0.510000E-03 0.212000E-05 1 NB 94M 0.00200	0.0 0.204000E-04 0.265000E-05 1 NB 94 1.00000	0.0 0.203000E-03 0.448000E-07	0.0 0.335000E-07 0.470000E-03	0.0 0.763000E-06 0.865000E-06

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NUCLIDE 306	KR 95	0.86643E-00 0.72660E-02 0.12350E-02	0.0 0.14520E-02 0.38300E-02	0.65000E-01 0.11200E-03 0.30391E-01	0.0 0.67919E-01 0.59400E-03	0.0 0.12164E-01 0.21905E-01
NUCLIDE 307	RB 95	0.19254E-01 0.65562E-00 0.30200E-00 1 KR 95 1.00000	0.0 0.27081E-00 0.01560E-00	0.65000E-01 0.33702E-01 0.10491E-01	0.0 0.17917E-01 0.38000E-00	0.0 0.76659E-00 0.10754E-01
NUCLIDE 308	SR 95	0.26659E-01 0.56300E-01 0.31893E-01 1 RB 95 1.00000	0.0 0.33140E-01 0.30633E-01	0.45000E-01 0.14906E-01 0.33618E-01	0.0 0.20595E-01 0.44434E-01	0.0 0.39505E-01 0.46175E-01
NUCLIDE 309	Y 95	0.11002E-02 0.64700E-01 0.48257E-01 1 SR 95 1.00000	0.0 0.60726E-01 0.45384E-01	0.42000E-01 0.43527E-01 0.38263E-01	0.0 0.55737E-01 0.59742E-01	0.0 0.50790E-01 0.56192E-01
NUCLIDE 310	ZR 95	0.12248E-06 0.65027E-01 0.48934E-01 1 Y 95 1.00000	0.0 0.62699E-01 0.45800E-01	0.11160E-01 0.48269E-01 0.38324E-01	0.11997E-00 0.35789E-01 0.61865E-01	0.72500E-00 0.31075E-01 0.56389E-01
NUCLIDE 311	NB 95M	0.22131E-03 0.84799E-01 0.65158E-01 1 ZR 95 0.01300	0.0 0.81924E-01 0.59674E-01	0.23500E-00 0.63263E-01 0.49824E-01	0.0 0.72527E-01 0.82209E-01	0.23500E-00 0.66418E-01 0.73315E-01
NUCLIDE 312	NB 95	0.22856E-06 0.65049E-01 0.48950E-01 1 ZR 95 0.98700	0.0 0.62707E-01 0.45861E-01	0.92500E-00 0.48319E-01 0.38324E-01	0.44274E-01 0.35789E-01 0.61904E-01	0.76500E-00 0.51076E-01 0.56389E-01
NUCLIDE 313	MO 95	0.0 0.65489E-01 0.48950E-01 1 NB 95 1.00000	0.32030E-24 0.62707E-01 0.45861E-01	0.0 0.48319E-01 0.38324E-01	0.0 0.35789E-01 0.61972E-01	0.0 0.51076E-01 0.56389E-01
NUCLIDE 314	TC 95M	0.13151E-06 0.28100E-09 0.0	0.0 0.0 0.0	0.16990E-01 0.36600E-10 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 315	TC 95	0.96270E-05 0.29200E-09 0.0 2 TC 95M 0.04000	0.0 0.0 0.0	0.16600E-01 0.36100E-10 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 316	RU 95	0.11669E-03 0.0 0.0	0.0 0.0 0.0	0.23500E-01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 317	SE 96	0.45171E-01 0.0 0.0	0.0 0.0 0.0	0.11967E-02 0.0 0.18700E-10	0.0 0.11500E-10 0.0	0.0 0.0 0.21900E-10
NUCLIDE 318	BR 96	0.23447E-02 0.64800E-11 0.12900E-07 1 SE 96 1.00000	0.0 0.75600E-08 0.14100E-07	0.14488E-02 0.13200E-09 0.99300E-06	0.0 0.73700E-06 0.0	0.0 0.29400E-07 0.11700E-03
NUCLIDE 319	KR 96	0.73908E-00 0.90400E-05 0.13300E-05 1 BR 96 1.00000	0.0 0.90300E-04 0.13200E-05	0.80304E-01 0.49200E-05 0.24200E-02	0.0 0.21350E-02 0.11700E-06	0.0 0.22900E-03 0.28400E-02
NUCLIDE 320	RB 96	0.30136E-01 0.11174E-00 0.62688E-01 1 KR 96 1.00000	0.0 0.51936E-01 0.59612E-01	0.10561E-02 0.73630E-02 0.30099E-00	0.0 0.31865E-00 0.21820E-02	0.0 0.86574E-01 0.35323E-00
NUCLIDE 321	SR 96	0.17328E-00 0.23029E-01 0.16408E-01 1 RB 96 1.00000	0.0 0.16925E-01 0.15691E-01	0.41222E-01 0.38059E-00 0.26359E-01	0.0 0.32142E-01 0.80172E-00	0.0 0.19462E-01 0.30933E-01
NUCLIDE 322	Y 96	0.50228E-02 0.59287E-01 0.45112E-01 1 SR 96 1.00000	0.0 0.54842E-01 0.44307E-01	0.69000E-01 0.33465E-01 0.44362E-01	0.15099E-01 0.53707E-01 0.44935E-01	0.34000E-01 0.49862E-01 0.48540E-01
NUCLIDE 323	ZR 96	0.0 0.62845E-01 0.49285E-01 1 Y 96 1.00000	0.0 0.62169E-01 0.48810E-01	0.0 0.48295E-01 0.42098E-01	0.0 0.34950E-01 0.55142E-01	0.0 0.53956E-01 0.49403E-01
NUCLIDE 324	NB 96	0.82282E-05 0.51400E-03 0.56560E-02	0.0 0.94070E-02 0.45950E-02	0.31500E-01 0.24090E-02 0.12299E-01	0.23442E-00 0.41900E-03 0.68670E-02	0.24502E-01 0.35150E-02 0.28100E-03
NUCLIDE 325	MO 96	0.0 0.51400E-03 0.36570E-02 1 NB 96 1.00000	0.0 0.94130E-02 0.45980E-02	0.0 0.24130E-02 0.12301E-01	0.0 0.41900E-03 0.64680E-02	0.0 0.35170E-02 0.24300E-03
NUCLIDE 326	KR 97	0.50825E-01 0.50400E-04 0.36900E-05	0.0 0.40900E-05 0.17000E-05	0.10956E-02 0.17700E-06 0.66400E-04	0.0 0.19700E-03 0.24000E-08	0.0 0.13900E-04 0.28900E-03
NUCLIDE 327	RB 97	0.49510E-01 0.28285E-01 0.56720E-02 1 KR 97 1.00000	0.0 0.69260E-02 0.36690E-02	0.90059E-01 0.79400E-03 0.37997E-01	0.0 0.81170E-01 0.19600E-03	0.0 0.14976E-01 0.87417E-01

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NUCLIDE 328	SR 97	0.173287E 01 0.110080E 01 0.507110E 00 1 RB 97 1.00000	0.0 0.611480E 00 0.406820E 00	0.706440E 01 0.176470E 00 0.123820E 01	0.0 0.297400E 01 0.249970E 00	0.0 0.867290E 00 0.172580E 01
NUCLIDE 329	Y 97	0.624457E 00 0.476250E 01 0.367300E 01 1 SR 97 1.00000	0.0 0.407730E 01 0.324820E 01	0.513820E 01 0.250460E 01 0.401230E 01	0.0 0.230610E 01 0.312060E 01	0.0 0.420110E 01 0.409400E 01
NUCLIDE 330	ZR 97	0.114608E-04 0.593390E 01 0.545790E 01 1 Y 97 1.00000	0.0 0.573320E 01 0.490260E 01	0.195500E 01 0.494980E 01 0.454830E 01	0.722940E 00 0.579130E 01 0.536660E 01	0.947000E-01 0.529730E 01 0.437400E 01
NUCLIDE 331	NB 97M	0.119508E-01 0.552280E 01 0.514600E 01 1 ZR 97 0.93000	0.0 0.536280E 01 0.460040E 01	0.747000E 00 0.470910E 01 0.423330E 01	0.0 0.539630E 01 0.201930E 01	0.747000E 00 0.494060E 01 0.406870E 01
NUCLIDE 332	NB 97	0.156963E-03 0.594680E 01 0.558030E 01 1 ZR 97 0.07000	0.0 0.579510E 01 0.498470E 01	0.193000E 01 0.516140E 01 0.455530E 01	0.462810E 00 0.296170E 01 0.544910E 01	0.672100E 00 0.532570E 01 0.437580E 01
NUCLIDE 333	MO 97	0.0 0.594680E 01 0.558070E 01 1 NB 97 1.00000	0.277690E-24 0.589020E 01 0.520860E 01	0.0 0.516280E 01 0.455540E 01	0.0 0.596170E 01 0.544910E 01	0.0 0.532830E 01 0.437990E 01
NUCLIDE 334	TC 97M	0.891393E-07 0.0 0.191000E-07 4 RU 97 0.00040	0.0 0.565000E-08 0.118000E-07	0.965000E-01 0.132000E-06 0.710000E-10	0.0 0.247000E-10 0.955000E-10	0.965000E-01 0.952000E-09 0.633000E-11
NUCLIDE 335	TC 97	0.845367E-14 0.0 0.383000E-07 4 RU 97 0.99960	0.0 0.113000E-07 0.235000E-07	0.300000E 00 0.263000E-06 0.142000E-09	0.0 0.494000E-10 0.191000E-09	0.0 0.190000E-08 0.127000E-10
NUCLIDE 336	RU 97	0.277596E-05 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.120000E 01 0.301000E-11 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
NUCLIDE 337	KR 98	0.151330E 01 0.390000E-06 0.121000E-07	0.0 0.200000E-06 0.934000E-08	0.940410E 01 0.969000E-08 0.105000E-05	0.0 0.133000E-04 0.204000E-07	0.0 0.679000E-06 0.190000E-04
NUCLIDE 338	RB 98	0.454940E 01 0.127900E-02 0.125000E-03 1 KR 98 1.00000	0.0 0.896000E-03 0.102000E-03	0.119110E 02 0.683000E-04 0.279700E-02	0.0 0.151870E-01 0.174000E-03	0.0 0.204800E-02 0.160120E-01
NUCLIDE 339	SR 98	0.136470E 00 0.230000E 00 0.644600E-01 1 RB 98 1.00000	0.0 0.199060E 00 0.535020E-01	0.553440E 01 0.390730E-01 0.376230E 00	0.0 0.929930E 00 0.71500E-01	0.0 0.311600E 00 0.743210E 00
NUCLIDE 340	Y 98	0.172430E 00 0.292090E 01 0.175200E 01 1 SR 98 1.00000	0.0 0.282520E 01 0.160870E 01	0.805750E 01 0.127340E 01 0.356310E 01	0.0 0.469380E 01 0.174730E 01	0.0 0.321900E 01 0.306840E 01
NUCLIDE 341	ZR 98	0.223596E-01 0.561170E 01 0.520350E 01 1 Y 98 1.00000	0.0 0.558330E 01 0.494540E 01	0.130000E 01 0.412620E 01 0.576360E 01	0.0 0.599490E 01 0.469670E 01	0.0 0.543820E 01 0.369360E 01
NUCLIDE 342	NB 98M	0.247553E 00 0.572610E 01 0.549690E 01 1 ZR 98 1.00000	0.0 0.569910E 01 0.524400E 01	0.460000E 01 0.440180E 01 0.582420E 01	0.0 0.601090E 01 0.491140E 01	0.0 0.550390E 01 0.369990E 01
NUCLIDE 343	NB 98	0.226519E-03 0.660280E-01 0.201660E 00	0.0 0.115750E 00 0.298560E 00	0.460000E 01 0.275660E 00 0.585740E-01	0.131720E 01 0.160040E-01 0.418900E 00	0.150000E 01 0.657580E-01 0.580600E-02
NUCLIDE 344	MO 98	0.0 0.579340E 01 0.370520E 01 1 NB 98M 1.00000	0.0 0.581600E 01 0.554960E 01	0.0 0.468460E 01 0.588310E 01	0.0 0.602700E 01 0.513440E 01	0.0 0.557010E 01 0.370520E 01
NUCLIDE 345	TC 98	0.146530E-13 0.882000E-06 0.374000E-05	0.0 0.296000E-06 0.0	0.170000E 01 0.473000E-05 0.540000E-07	0.816080E-01 0.270000E-08 0.492000E-05	0.142000E 01 0.771000E-07 0.531000E-09
NUCLIDE 346	HU 98	0.0 0.882000E-06 0.374000E-05 1 TC 98 1.00000	0.0 0.296000E-06 0.0	0.0 0.473000E-05 0.540000E-07	0.0 0.270000E-08 0.492000E-05	0.0 0.771000E-07 0.531000E-09
NUCLIDE 347	RB 99	0.352780E 01 0.900091E-04 0.0	0.0 0.729910E-04 0.47640E-03	0.103630E 02 0.435894E-05 0.401182E-05	0.0 0.208041E-02 0.720021E-04	0.0 0.196430E-03 0.111535E-04
NUCLIDE 348	SR 99	0.931970E 00 0.477330E-01 0.865000E-04 1 RB 99 1.00000	0.0 0.439760E-01 0.670400E-02	0.844200E 01 0.690100E-02 0.447200E-01	0.0 0.332230E 00 0.27070E-01	0.0 0.803730E-01 0.223980E 00
NUCLIDE 349	Y 99	0.866434E 00 0.155820E 01 0.722070E 00 1 SR 99 1.00000	0.0 0.151490E 01 0.592170E 00	0.652860E 01 0.576040E 00 0.158260E 01	0.0 0.262130E 01 0.778770E 00	0.0 0.195930E 01 0.184910E 01

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NUCLIDE 350	ZR 99	0.288811E 00 0.504930E 01 0.460740E 01 1 Y 99 1.00000	0.0 0.508790E 01 0.394670E 01	0.462840E 01 0.367560E 01 0.541260E 01	0.0 0.625830E 01 0.393080E 01	0.0 0.326680E 01 0.281100E 01
NUCLIDE 351	NB 99M	0.444325E-02 0.187740E 01 0.226550E 01 1 ZR 99 0.30000	0.0 0.188970E 01 0.198640E 01	0.310000E 01 0.180730E 01 0.202330E 01	0.0 0.195990E 01 0.168450E 01	0.0 0.182080E 01 0.865130E 00
NUCLIDE 352	NB 99	0.495105E-01 0.387040E 01 0.410850E 01 1 ZR 99 0.70000	0.0 0.392490E 01 0.356290E 01	0.310000E 01 0.327760E 01 0.418840E 01	0.0 0.446330E 01 0.329640E 01	0.0 0.392750E 01 0.198950E 01
NUCLIDE 353	MO 99	0.289100E-05 0.613560E 01 0.643290E 01 1 NB 99M 1.00000	0.0 0.582450E 01 0.560880E 01 1 NB 99 1.00000	0.124500E 01 0.513190E 01 0.622290E 01	0.394990E 00 0.642380E 01 0.502040E 01	0.157000E 00 0.575290E 01 0.285480E 01
NUCLIDE 354	TC 99M	0.320528E-04 0.539930E 01 0.566100E 01 1 MO 99 0.88000	0.0 0.512000E 01 0.493580E 01	0.142700E 00 0.451610E 01 0.547610E 01	0.0 0.565290E 01 0.441800E 01	0.142700E 00 0.506250E 01 0.251220E 01
NUCLIDE 355	TC 99	0.103190E-12 0.613560E 01 0.643300E 01 1 MO 99 0.12000	0.513190E-24 0.582450E 01 0.560900E 01 2 TC 99M 1.00000	0.294000E 00 0.513200E 01 0.622290E 01	0.855380E-01 0.642380E 01 0.502350E 01	0.0 0.575290E 01 0.285480E 01
NUCLIDE 356	RU 99	0.0 0.613560E 01 0.643300E 01 1 TC 99 1.00000	0.0 0.582450E 01 0.560900E 01 4 RH 99M 1.00000	0.0 0.513200E 01 0.622290E 01 1.00000	0.0 0.642380E 01 0.502350E 01 4 RH 99 1.00000	0.0 0.575290E 01 0.285480E 01
NUCLIDE 357	RH 99M	0.409661E-04 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.210000E 01 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
NUCLIDE 358	RH 99	0.534836E-06 0.0 0.0 1 RD 99 1.00000	0.0 0.0 0.0 0.0	0.205000E 01 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
NUCLIDE 359	MD 99	0.502281E-03 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.380000E 01 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
NUCLIDE 360	KR100	0.276290E 02 0.121000E-09 0.141000E-11	0.0 0.926000E-10 0.102000E-11	0.107380E 02 0.114000E-11 0.575000E-10	0.0 0.165000E-07 0.500000E-11	0.0 0.389000E-09 0.121000E-07
NUCLIDE 361	NB100	0.109420E 02 0.445000E-05 0.158000E-06 1 KR100 1.00000	0.0 0.361000E-05 0.121000E-06	0.132770E 02 0.126000E-06 0.254000E-05	0.0 0.160000E-03 0.399000E-06	0.0 0.101000E-04 0.759000E-04
NUCLIDE 362	SR100	0.375900E 00 0.752100E-02 0.804000E-03 1 RB100 1.00000	0.0 0.648400E-02 0.655000E-03	0.691880E 01 0.602000E-03 0.315000E-02	0.0 0.142080E-01 0.132000E-02	0.0 0.122900E-01 0.233020E-01
NUCLIDE 363	Y 100	0.635370E 00 0.663980E 00 0.200350E 00 1 SR100 1.00000	0.0 0.605410E 00 0.173450E 00	0.941560E 01 0.141730E 00 0.539300E 00	0.0 0.200580E 01 0.219110E 00	0.0 0.795780E 00 0.436950E 00
NUCLIDE 364	ZR100	0.693147E 00 0.442740E 01 0.314340E 01 1 Y 100 1.00000	0.0 0.422380E 01 0.286260E 01	0.312180E 01 0.211470E 01 0.411390E 01	0.0 0.275930E 01 0.243270E 01	0.0 0.418730E 01 0.100610E 01
NUCLIDE 365	NB100M	0.962704E-03 0.311270E 01 0.327660E 01 1 ZR100 0.50000	0.0 0.302000E 01 0.306750E 01	0.610000E 01 0.214560E 01 0.304740E 01	0.145500E 01 0.318260E 01 0.212580E 01	0.271000E 01 0.270990E 01 0.534980E 00
NUCLIDE 366	NB100	0.399360E-02 0.511270E 01 0.327660E 01 1 ZR100 0.50000	0.0 0.302000E 01 0.306750E 01	0.610000E 01 0.214560E 01 0.304740E 01	0.145510E 01 0.318260E 01 0.212580E 01	0.271000E 01 0.270990E 01 0.534980E 00
NUCLIDE 367	MO100	0.0 0.628880E 01 0.687150E 01 1 NB100M 1.00000	0.0 0.610770E 01 0.645700E 01 1 NB100 1.00000	0.0 0.448370E 01 0.617730E 01	0.0 0.637170E 01 0.436840E 01	0.0 0.345180E 01 0.107040E 01
NUCLIDE 368	TC100	0.435942E-04 0.125000E-03 0.184800E-02 3 TC 99 1.00000	0.0 0.142000E-03 0.195000E-02	0.340000E 01 0.103800E-02 0.194000E-03	0.133100E 01 0.344000E-05 0.443000E-03	0.260000E 00 0.455000E-04 0.158000E-06
NUCLIDE 369	RU100	0.0 0.125000E-03 0.181900E-02 1 TC100 1.00000	0.521010E-24 0.142000E-03 0.195100E-02	0.0 0.103900E-02 0.195000E-03	0.0 0.344000E-05 0.443000E-03	0.0 0.455000E-04 0.158000E-06
NUCLIDE 370	SR101	0.243280E 01 0.517000E-03 0.309000E-04	0.0 0.465000E-03 0.285000E-04	0.978640E 01 0.302000E-04 0.322000E-03	0.0 0.108170E-01 0.635000E-04	0.0 0.141400E-02 0.235000E-02
NUCLIDE 371	Y 101	0.603110E 00 0.136990E 00 0.261000E-01 1 SR101 1.00000	0.0 0.130580E 00 0.255500E-01	0.789470E 01 0.219670E 01 0.107950E 00	0.0 0.806540E 00 0.322500E-01	0.0 0.283790E 00 0.118620E 00

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NUCLIDE 372	ZR101	0.210045E 00 0.226080E 01 0.121140E 01 1 Y 101 1.00000	0.0 0.226760E 01 0.125330E 01	0.600990E 01 0.889100E 00 0.218710E 01	0.0 0.471860E 01 0.944140E 00	0.0 0.322800E 01 0.519510E 00
NUCLIDE 373	NB101	0.990210E-01 0.484550E 01 0.500140E 01 1 ZR101 1.00000	0.0 0.499920E 01 0.538130E 01	0.230000E 01 0.333540E 01 0.526710E 01	0.0 0.632900E 01 0.485270E 01	0.0 0.591500E 01 0.635770E 00
NUCLIDE 374	MO101	0.791264E-03 0.509970E 01 0.605050E 01 1 NB101 1.00000	0.0 0.528250E 01 0.634880E 01	0.282000E 01 0.391500E 01 0.564090E 01	0.432820E 00 0.637720E 01 0.218560E 01	0.164900E 01 0.610720E 01 0.638120E 00
NUCLIDE 375	TC101	0.813553E-03 0.510120E 01 0.603950E 01 1 MO101 1.00000	0.0 0.528430E 01 0.637820E 01	0.163000E 01 0.392440E 01 0.564370E 01	0.476800E 00 0.637720E 01 0.318940E 01	0.330700E 00 0.610790E 01 0.638130E 00
NUCLIDE 376	RU101	0.0 0.510120E 01 0.603950E 01 1 TC101 1.00000	0.160090E-23 0.528430E 01 0.637820E 01	0.0 0.392440E 01 0.564370E 01	0.0 0.637720E 01 0.318940E 01	0.0 0.610790E 01 0.638130E 00
NUCLIDE 377	RH101M	0.179475E-05 0.297000E-11 0.433000E-09 4 RD101 1.00000	0.0 0.429000E-11 0.551000E-09	0.661300E 00 0.157000E-09 0.976000E-11	0.0 0.0 0.308000E-10	0.0 0.0 0.0
NUCLIDE 378	RH101	0.732652E-08 0.326000E-11 0.476000E-09 1 RH101M 0.10000	0.0 0.472000E-11 0.606000E-09	0.560000E 00 0.173000E-09 0.107000E-10	0.0 0.0 0.338000E-10	0.0 0.0 0.0
NUCLIDE 379	PD101	0.231977E-04 0.0 0.0	0.0 0.0 0.0	0.199000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 380	SR102	0.842620E 00 0.300000E-04 0.119000E-05	0.0 0.271000E-04 0.108000E-05	0.826580E 01 0.139000E-05 0.171000E-04	0.0 0.112700E-02 0.466000E-05	0.0 0.560000E-04 0.176000E-03
NUCLIDE 381	Y 102	0.191710E 01 0.224430E-01 0.308490E-02 1 SR102 1.00000	0.0 0.215530E-01 0.297000E-02	0.407430E 02 0.290900E-02 0.178440E-01	0.0 0.236120E 00 0.386800E-02	0.0 0.301730E-01 0.238850E-01
NUCLIDE 382	ZR102	0.540290E-01 0.433480E 00 0.406250E 00 1 Y 102 1.00000	0.0 0.946930E 00 0.414400E 00	0.451220E 01 0.313470E 00 0.400510E 01	0.0 0.318870E 01 0.496470E 00	0.0 0.931870E 00 0.224400E 00
NUCLIDE 383	NB102	0.533320E-01 0.358870E 01 0.372810E 01 1 ZR102 1.00000	0.0 0.376110E 01 0.398620E 01	0.700380E 01 0.244630E 01 0.477040E 01	0.0 0.614110E 01 0.177220E 01	0.0 0.291300E 01 0.363120E 00
NUCLIDE 384	MO102	0.104076E-02 0.420910E 01 0.597020E 01 1 NB102 1.00000	0.0 0.448050E 01 0.651880E 01	0.120000E 01 0.365790E 01 0.597750E 01	0.437670E 00 0.637610E 01 0.239500E 01	0.0 0.327920E 01 0.370500E 00
NUCLIDE 385	TC102M	0.130782E 00 0.420910E 01 0.602830E 01 1 MO102 1.00000	0.0 0.448680E 01 0.658860E 01	0.440000E 01 0.368380E 01 0.599110E 01	0.193600E 01 0.637670E 01 0.240450E 01	0.0 0.327920E 01 0.370510E 00
NUCLIDE 386	TC102	0.268662E-02 0.253000E-04 0.580320E-01	0.0 0.631400E-02 0.691490E-01	0.440000E 01 0.259120E-01 0.136550E-01	0.0 0.563000E-03 0.957100E-02	0.0 0.254400E-02 0.114000E-04
NUCLIDE 387	RU102	0.0 0.420970E 01 0.608670E 01 1 TC102M 1.00000	0.306360E-24 0.449310E 01 0.665760E 01	0.0 0.370980E 01 0.600480E 01	0.0 0.637720E 01 0.241410E 01	0.0 0.374430E 01 0.370530E 00
NUCLIDE 388	RH102M	0.104665E-07 0.191000E-09 0.252000E-07	0.0 0.256000E-09 0.339000E-07	0.232000E 01 0.736000E-08 0.958000E-09	0.0 0.143000E-11 0.131000E-08	0.0 0.471000E-10 0.0
NUCLIDE 389	RH102	0.387562E-07 0.486000E-06 0.252000E-07	0.0 0.256000E-09 0.339000E-07	0.232000E 01 0.736000E-08 0.958000E-09	0.0 0.143000E-11 0.131000E-08	0.0 0.471000E-10 0.0
NUCLIDE 390	PD102	0.0 0.777000E-07 0.403000E-08 1 RH102 0.16000	0.0 0.409000E-10 0.542000E-08	0.0 0.118000E-08 0.153000E-09	0.0 0.0 0.410000E-09	0.0 0.754000E-11 0.0
NUCLIDE 391	Y 103	0.165820E 01 0.358800E-02 0.344000E-03	0.0 0.321600E-02 0.278000E-03	0.922540E 01 0.428000E-03 0.192900E-02	0.0 0.507140E-01 0.496000E-03	0.0 0.640900E-02 0.275000E-02
NUCLIDE 392	ZR103	0.383430E 00 0.307930E 00 0.122190E 00 1 Y 103 1.00000	0.0 0.309330E 00 0.104760E 00	0.736270E 01 0.103860E 00 0.311170E 00	0.0 0.170060E 01 0.639510E-01	0.0 0.520080E 00 0.603820E-01
NUCLIDE 393	NB103	0.581770E-01 0.209940E 01 0.260730E 01 1 ZR103 1.00000	0.0 0.220920E 01 0.235500E 01	0.550700E 01 0.158910E 01 0.337260E 01	0.0 0.560990E 01 0.885320E 00	0.0 0.324880E 01 0.152310E 00

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NUCLIDE 394	MO103M	0.363285E-04 0.438670E 00 0.193360E 01	0.0 0.487800E 00 0.183930E 01	0.410000E 01 0.839560E 00 0.122720E 01	0.0 0.387530E 00 0.420880E 00	0.0 0.604660E 00 0.603200E-02
NUCLIDE 395	MO103	0.105022E-01 0.285420E 01 0.550770E 01 1 NB103 1.00000	0.0 0.293690E 01 0.511400E 01 2 MO103M 0.50000	0.410000E 01 0.284850E 01 0.521350E 01	0.0 0.619120E 01 0.151660E 01	0.0 0.415380E 01 0.161350E 00
NUCLIDE 396	TC103	0.138629E-01 0.310530E 01 0.696900E 01 1 MO103M 0.50000	0.0 0.321820E 01 0.652410E 01 1 MO103 1.00000	0.240000E 01 0.382080E 01 0.598060E 01	0.842660E 00 0.639520E 01 0.179590E 01	0.300000E 00 0.449540E 01 0.164470E 00
NUCLIDE 397	RU103	0.201571E-05 0.310540E 01 0.697300E 01 1 TC103 1.00000	0.0 0.321830E 01 0.653340E 01 3 RU102 1.00000	0.700000E 00 0.342170E 01 0.598120E 01	0.620740E-01 0.639520E 01 0.179620E 01	0.491000E 00 0.449550E 01 0.164470E 00
NUCLIDE 398	RH103M	0.210045E-03 0.307440E 01 0.690330E 01 1 RU103 0.99900	0.0 0.318610E 01 0.646800E 01 4 PD103 0.99900	0.400000E-01 0.338750E 01 0.592140E 01	0.0 0.633120E 01 0.177830E 01	0.400000E-01 0.445050E 01 0.162630E 00
NUCLIDE 399	RH103	0.0 0.310540E 01 0.697300E 01 1 RU103 0.01000	0.584010E-24 0.321830E 01 0.653340E 01 2 RH103M 1.00000	0.0 0.342170E 01 0.598120E 01 4 PD103 0.00100	0.0 0.639520E 01 0.179620E 01	0.0 0.449550E 01 0.164470E 00
NUCLIDE 400	PD103	0.471914E-06 0.0 0.309000E-10 4 AG103 1.00000	0.0 0.0 0.371000E-10	0.560000E 00 0.293000E-11	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 401	AG103M	0.119508E 00 0.0 0.0	0.0 0.0 0.0	0.136000E 00 0.0 0.0	0.0 0.0 0.0	0.158000E 00 0.0 0.0
NUCLIDE 402	AG103	0.175037E-03 0.0 0.0 1 AG103M 1.00000	0.0 0.0 0.0	0.260000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 403	SR104	0.163940E 01 0.518000E-07 0.771000E-09	0.0 0.522000E-07 0.658000E-09	0.957150E 01 0.186000E-08 0.207000E-07	0.0 0.380000E-05 0.124000E-08	0.0 0.160000E-06 0.345000E-06
NUCLIDE 404	Y 104	0.495530E 01 0.247000E-03 0.172000E-04 1 SR104 1.00000	0.0 0.265000E-03 0.156000E-04	0.120330E 02 0.253000E-04 0.189000E-03	0.0 0.605400E-02 0.149000E-04	0.0 0.676000E-03 0.319000E-03
NUCLIDE 405	ZR104	0.178060E 00 0.582610E-01 0.179320E-04 1 Y 104 1.00000	0.0 0.662050E-01 0.172740E-01	0.586850E 01 0.163040E-01 0.85630E-01	0.0 0.505060E 00 0.853400E-02	0.0 0.141700E 00 0.160720E-01
NUCLIDE 406	NB104	0.229620E 00 0.669280E 00 0.101000E 01 1 ZR104 1.00000	0.0 0.103880E 01 0.102870E 01	0.833790E 01 0.391890E 00 0.211660E 01	0.0 0.322270E 01 0.278110E 00	0.0 0.191360E 01 0.703850E-01
NUCLIDE 407	MO104	0.888650E-02 0.176390E 01 0.479570E 01 1 NB104 1.00000	0.0 0.216560E 01 0.508590E 01	0.480000E 01 0.206140E 01 0.587830E 01	0.213240E 01 0.445850E 01 0.901480E 00	0.0 0.368540E 01 0.861370E-01
NUCLIDE 408	TC104	0.641803E-03 0.185290E 01 0.609700E 01 1 MO104 1.00000	0.0 0.227070E 01 0.645380E 01	0.580000E 01 0.237600E 01 0.645330E 01	0.153370E 01 0.449950E 01 0.102460E 01	0.224960E 01 0.382640E 01 0.864550E-01
NUCLIDE 409	RU104	0.0 0.183320E 01 0.603450E 01 1 TC104 1.00000	0.156610E-24 0.227130E 01 0.647850E 01 4 RH104 0.00500	0.0 0.238050E 01 0.646090E 01	0.0 0.450960E 01 0.102310E 01	0.0 0.382710E 01 0.864560E-01
NUCLIDE 410	RH104M	0.264965E-02 0.498000E-07 0.168000E-04	0.0 0.855000E-07 0.160000E-04	0.129000E 00 0.171000E-05 0.145000E-05	0.0 0.344000E-08 0.516000E-06	0.129000E 00 0.801800E-07 0.875000E-11
NUCLIDE 411	RH104	0.165035E-01 0.995000E-07 0.339000E-04 3 RH103 1.00000	0.0 0.171000E-06 0.321000E-04 2 RH104M 0.99820	0.247000E 01 0.341000E-05 0.290000E-05	0.100390E 01 0.687000E-08 0.103000E-05	0.128850E-01 0.160000E-06 0.175000E-10
NUCLIDE 412	PD104	0.0 0.991000E-07 0.334000E-04 1 RH104M 0.00180	0.0 0.170000E-06 0.319000E-04 1 RH104 0.99500	0.0 0.339000E-05 0.289000E-05	0.0 0.684000E-08 0.403000E-05	0.0 0.159000E-06 0.174000E-10
NUCLIDE 413	ZR105	0.111560E 04 0.596600E-04 0.129600E-02	0.0 0.365900E-02 0.144900E-02	0.867910E 01 0.150800E-02 0.125270E-01	0.0 0.841930E-01 0.226000E-03	0.0 0.222030E-01 0.258000E-02
NUCLIDE 414	NB105	0.238950E 00 0.216910E 00 0.209050E 00 1 ZR105 1.00000	0.0 0.332360E 00 0.247680E 00	0.684550E 01 0.140980E 00 0.834880E 00	0.0 0.123020E 01 0.183560E-01	0.0 0.744510E 00 0.227610E-01
NUCLIDE 415	MO105	0.169060E-01 0.755480E 00 0.226580E 01 1 NB105 1.00000	0.0 0.120110E 01 0.281730E 01	0.550000E 01 0.982790E 00 0.448620E 01	0.0 0.246370E 01 0.114590E 00	0.0 0.245600E 01 0.357280E-01

NUCLIDE 416	TC105	0.148108E-02 0.832800E 00 0.391470E 01 1 MO105 1.00000	0.0 0.139670E 01 0.498130E 01	0.340000E 01 0.140540E 01 0.584670E 01	0.145480E 01 0.257000E 01 0.157270E 00	0.0 0.279540E 01 0.363630E-01
NUCLIDE 417	RU105	0.433651E-04 0.947310E 00 0.416940E 01 1 TC105 1.00000	0.0 0.139970E 01 0.512410E 01 3 RU104 1.00000	0.183500E 01 0.142120E 01 0.588310E 01	0.0 0.257050E 01 0.158660E 00	0.739000E 00 0.279980E 01 0.363630E-01
NUCLIDE 418	RH105M	0.182407E-01 0.198930E 00 0.891410E 00 1 RU105 0.21000	0.0 0.293440E 00 0.107630E 01	0.129400E 00 0.310040E 00 0.123550E 01	0.0 0.250600E 00 0.333200E-01	0.129400E 00 0.391890E 00 0.763700E-02
NUCLIDE 419	RH105	0.542369E-05 0.947310E 00 0.538990E 01 1 RU105 0.79000	0.256830E-24 0.139970E 01 0.512470E 01 2 RH105M 1.00000	0.565000E 00 0.202440E 01 0.588320E 01 3 RH104 1.00000	0.133800E 00 0.317610E 01 0.158670E 00 1.00000	0.789240E-01 0.337190E 01 0.363630E-01
NUCLIDE 420	PD105	0.0 0.947310E 00 0.538990E 01 1 RH105 1.00000	0.499400E-24 0.139970E 01 0.512470E 01 4 AG105 1.00000	0.0 0.202440E 01 0.588320E 01	0.0 0.322990E 01 0.414160E 00	0.0 0.337190E 01 0.404890E-01
NUCLIDE 421	AG105	0.199672E-06 0.0 0.0 4 CD105 1.00000	0.0 0.0 0.0	0.130000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 422	CD105	0.202675E-03 0.0 0.0	0.0 0.0 0.0	0.280000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 423	ZR106	0.446330E 00 0.440000E-03 0.449000E-04	0.0 0.973000E-03 0.973000E-04	0.718370E 01 0.204000E-03 0.127600E-02	0.0 0.214030E-01 0.453000E-04	0.0 0.288200E-02 0.880000E-03
NUCLIDE 424	NB106	0.772540E 00 0.400170E-01 0.440620E-01 1 ZR106 1.00000	0.0 0.935940E-01 0.479420E-01	0.963800E 01 0.495570E-01 0.245080E 00	0.0 0.737270E 00 0.949200E-02	0.0 0.237230E 00 0.193210E-01
NUCLIDE 425	MO106	0.729629E-01 0.272820E 00 0.119100E 01 1 NB106 1.00000	0.0 0.667220E 00 0.136660E 01	0.354830E 01 0.758220E 00 0.307350E 01	0.0 0.247620E 01 0.128190E 00	0.0 0.151380E 01 0.487340E-01
NUCLIDE 426	TC106	0.187337E-01 0.386840E 00 0.341970E 01 1 MO106 1.00000	0.0 0.962400E 00 0.403910E 01	0.601650E 01 0.135940E 01 0.270110E 01	0.0 0.282990E 01 0.246870E 00	0.0 0.209410E 01 0.526260E-01
NUCLIDE 427	RU106	0.218004E-07 0.390970E 00 0.425130E 01 1 TC106 1.00000	0.692370E-25 0.973720E 00 0.451680E 01	0.390000E-01 0.163220E 01 0.289440E 01	0.101480E-01 0.288470E 01 0.256320E 00	0.0 0.211350E 01 0.526260E-01
NUCLIDE 428	RH106M	0.883219E-04 0.420000E-05 0.215800E-04	0.0 0.122000E-04 0.254600E-02	0.363000E 01 0.193000E-03 0.424000E-03	0.350000E 00 0.174000E-05 0.408000E-04	0.264100E 01 0.194000E-04 0.615000E-08
NUCLIDE 429	RH106	0.231049E-01 0.390980E 00 0.425350E 01 1 RU106 1.00000	0.0 0.973730E 00 0.451940E 01 3 RH105 1.00000	0.354000E 01 0.163240E 01 0.289460E 01	0.139000E 01 0.283470E 01 0.256340E 00	0.298700E 00 0.211440E 01 0.526260E-01
NUCLIDE 430	PD106	0.0 0.390980E 00 0.425370E 01 1 RH106M 1.00000	0.0 0.973740E 00 0.452190E 01 1 RH106 1.00000	0.0 0.163260E 01 0.289500E 01 3 PD105 1.00000	0.0 0.283520E 01 0.256360E 00 4 AG106M 1.00000	0.0 0.213870E 01 0.526260E-01 4 AG106 1.00000
NUCLIDE 431	AG106M	0.955064E-06 0.0 0.290000E-10	0.0 0.0 0.387000E-10	0.326000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 432	AG106	0.479355E-03 0.0 0.290000E-10	0.0 0.0 0.387000E-10	0.296000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 433	CD106	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 434	ZR107	0.271950E 01 0.257823E-04 0.0	0.0 0.408177E-04 0.440789E-05	0.995570E 01 0.148839E-04 0.434476E-05	0.0 0.156622E-02 0.840839E-04	0.0 0.274951E-03 0.156107E-05
NUCLIDE 435	NB107	0.739840E 00 0.602000E-02 0.369000E-04 1 ZR107 1.00000	0.0 0.101070E-01 0.606800E-02	0.814710E 01 0.959200E-02 0.449660E-01	0.0 0.136580E 00 0.845000E-03	0.0 0.605380E-01 0.686900E-02
NUCLIDE 436	MO107	0.145600E 00 0.901770E-01 0.260080E 00 1 NB107 1.00000	0.0 0.159180E 00 0.452460E 00	0.634270E 01 0.341480E 00 0.139130E 01	0.0 0.219600E 00 0.299470E-01	0.0 0.862820E 00 0.381550E-01

NUCLIDE 437	TC107	0.239016E-01 0.183010E 00 0.145790E 01 1 MO107 1.00000	0.0 0.331890E 00 0.264710E 01	0.454630E 01 0.118930E 01 0.435230E 01	0.0 0.129370E 01 0.102310E 00	0.0 0.170540E 01 0.501030E-01
NUCLIDE 438	RU107	0.275058E-02 0.191230E 00 0.288710E 01 1 TC107 1.00000	0.0 0.348010E 00 0.355030E 01 3 RU106 1.00000	0.320000E 01 0.137080E 01 0.489600E 01	0.124000E 01 0.130690E 01 0.117420E 00	0.251400E 00 0.177420E 01 0.504320E-01
NUCLIDE 439	RH107	0.515735E-03 0.191270E 00 0.296950E 01 1 RU107 1.00000	0.0 0.348100E 00 0.357750E 01	0.131000E 01 0.137340E 01 0.490260E 01	0.437060E 00 0.130690E 01 0.117630E 00	0.307470E 00 0.177650E 01 0.504330E-01
NUCLIDE 440	PD107M	0.315067E-01 0.593000E-08 0.219000E-04	0.0 0.131000E-07 0.223000E-04	0.210000E 00 0.984000E-06 0.207000E-05	0.0 0.123000E-08 0.773000E-07	0.210000E 00 0.493000E-07 0.177000E-10
NUCLIDE 441	PD107	0.313994E-14 0.191270E 00 0.299740E 01 1 RH107 1.00000	0.495010E-24 0.348100E 00 0.357760E 01 2 PD107M 1.00000	0.350000E-01 0.137340E 01 0.490260E 01	0.908870E-02 0.130690E 01 0.117630E 00	0.0 0.177650E 01 0.504330E-01
NUCLIDE 442	AG107M	0.157533E-01 0.0 0.161000E-08 4 CD107 0.99660	0.0 0.0 0.174000E-08	0.931000E-01 0.344000E-10 0.602000E-10	0.0 0.0 0.262000E-11	0.931000E-01 0.0 0.0
NUCLIDE 443	AG107	0.0 0.191270E 00 0.304960E 01 1 PD107 1.00000	0.0 0.348100E 00 0.357760E 01 2 AG107M 1.00000	0.0 0.137340E 01 0.490260E 01 4 CD107 0.00340	0.0 0.130690E 01 0.117630E 00	0.0 0.177650E 01 0.504330E-01
NUCLIDE 444	CD107	0.296217E-04 0.0 0.0 4 IN107 1.00000	0.0 0.0 0.0	0.141700E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 445	IN107	0.361014E-03 0.0 0.0	0.0 0.0 0.0	0.350000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 446	ZR108	0.937050E 00 0.543000E-06 0.142000E-06	0.0 0.156000E-03 0.121000E-06	0.846100E 01 0.544000E-06 0.578000E-06	0.0 0.802000E-04 0.195000E-07	0.0 0.156000E-04 0.732000E-05
NUCLIDE 447	NB108	0.216470E 01 0.394000E-03 0.347000E-03 1 ZR108 1.00000	0.0 0.120500E-02 0.494000E-03	0.109000E 02 0.110500E-02 0.164400E-02	0.0 0.194650E-01 0.47000E-04	0.0 0.974300E-02 0.172400E-02
NUCLIDE 448	MO108	0.766570E-01 0.139650E-01 0.104990E 00 1 NB108 1.00000	0.0 0.515220E-01 0.100300E 00	0.487380E 01 0.115710E 00 0.235630E 00	0.0 0.297820E 00 0.524900E-02	0.0 0.344260E 00 0.257220E-01
NUCLIDE 449	TC108	0.693147E-01 0.398930E-01 0.131670E 01 1 MO108 1.00000	0.0 0.200750E 00 0.132400E 01	0.732170E 01 0.882660E 00 0.232120E 01	0.0 0.612510E 00 0.438860E-01	0.0 0.117730E 01 0.521940E-01
NUCLIDE 450	RU108	0.256721E-02 0.703010E-01 0.244240E 01 1 TC108 1.00000	0.0 0.237950E 00 0.251770E 01	0.130000E 01 0.130770E 01 0.383670E 01	0.458790E 00 0.641110E 00 0.675190E-01	0.462000E-01 0.135120E 01 0.345370E-01
NUCLIDE 451	RH108	0.407734E-01 0.704690E-01 0.252510E 01 1 RU108 1.00000	0.0 0.238390E 00 0.261020E 01	0.450000E 01 0.132340E 01 0.392180E 01	0.171180E 01 0.641270E 00 0.686460E-01	0.351560E 00 0.135360E 01 0.345490E-01
NUCLIDE 452	PD108	0.0 0.704690E-01 0.252550E 01 1 RH108 1.00000	0.118090E-24 0.238390E 00 0.261070E 01 3 PD107 1.00000	0.0 0.132540E 01 0.392210E 01 4 AG108M 0.90000	0.0 0.641270E 00 0.646190E-01 4 AG108 0.00000	0.0 0.135360E 01 0.345490E-01 0.00000
NUCLIDE 453	AG108M	0.219796E-09 0.285000E-11 0.392000E-07	0.0 0.121000E-10 0.495000E-07	0.183800E 01 0.236000E-08 0.221000E-07	0.0 0.0 0.167000E-09	0.0 0.302000E-10 0.0
NUCLIDE 454	AG108	0.477374E-02 0.311000E-11 0.431000E-07 2 AG108M 0.10000	0.0 0.133000E-10 0.544000E-07	0.164600E 01 0.260000E-08 0.243000E-07	0.505370E 00 0.0 0.206000E-09	0.140000E-01 0.132000E-10 0.0
NUCLIDE 455	CD108	0.0 0.304000E-11 0.422000E-07 1 AG108 0.97700	0.0 0.133000E-10 0.532000E-07	0.0 0.234000E-08 0.238000E-07	0.0 0.0 0.201000E 01	0.0 0.324000E-10 0.0
NUCLIDE 456	NB109	0.188440E 01 0.0 0.0	0.0 0.0 0.0	0.940890E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 457	MO109	0.482960E 00 0.176800E-02 0.125800E-04 1 NB109 1.00000	0.0 0.733000E-02 0.135000E-01	0.762910E 01 0.195190E-01 0.128410E 00	0.0 0.666130E-01 0.349000E-03	0.0 0.148840E 00 0.103960E-01
NUCLIDE 458	TC109	0.865560E-01 0.166120E-01 0.394620E 00 1 MO109 1.00000	0.0 0.722010E-01 0.439930E 00	0.585450E 01 0.427300E 01 0.182230E 01	0.0 0.232020E 00 0.133530E-01	0.0 0.999130E 00 0.429040E-01

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NUCLIDE 459	KU109	0.198042E-01 0.268810E-01 0.122500E-01 1 TC109 1.00000	0.0 0.119340E-00 0.142560E-01	0.408920E-01 0.107820E-01 0.360180E-01	0.0 0.267420E-00 0.258980E-01	0.0 0.142490E-01 0.513770E-01
NUCLIDE 460	KH109M	0.231049E-03 0.137130E-01 0.689040E-00 1 RU109 0.50000	0.0 0.609940E-01 0.808020E-00	0.0 0.581810E-00 0.187560E-01	0.0 0.133960E-00 0.495900E-01	0.0 0.709610E-00 0.257650E-01
NUCLIDE 461	KH109	0.231049E-01 0.274270E-01 0.137610E-01 1 RU109 0.50000	0.0 0.121990E-00 0.161400E-01	0.250000E-01 0.116360E-01 0.375120E-01	0.0 0.267930E-00 0.391800E-01	0.0 0.141920E-01 0.515300E-01
NUCLIDE 462	PD109M	0.246321E-02 0.137140E-01 0.689960E-00 1 RH109 0.50000	0.0 0.609980E-01 0.809240E-00	0.188000E-00 0.582170E-00 0.187600E-01	0.0 0.133960E-00 0.196030E-01	0.188000E-00 0.709620E-00 0.257650E-01
NUCLIDE 463	PD109	0.143047E-04 0.274290E-01 0.137990E-01 1 RH109 0.50000	0.0 0.122000E-00 0.161850E-01	0.102700E-01 0.116430E-01 0.375190E-01	0.364000E-00 0.267930E-00 0.392110E-01	0.0 0.141920E-01 0.515300E-01
NUCLIDE 464	AG109M	0.174158E-01 0.274270E-01 0.137990E-01 1 PD109 0.99999	0.0 0.121990E-00 0.161400E-01	0.877000E-01 0.116460E-01 0.375170E-01	0.0 0.266420E-00 0.392090E-01	0.877000E-01 0.141920E-01 0.515710E-01
NUCLIDE 465	AG109	0.0 0.274290E-01 0.137990E-01 1 PD109 0.00005	0.624760E-24 0.122000E-00 0.161850E-01	0.0 0.116570E-01 0.375190E-01	0.0 0.270270E-00 0.392110E-01	0.0 0.141920E-01 0.517330E-01
NUCLIDE 466	CD109	0.177098E-07 0.0 0.338000E-10 4 IN109 1.00000	0.0 0.0 0.505000E-10	0.168000E-00 0.586000E-11 0.214000E-11	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 467	IN109M	0.888650E-02 0.0 0.0	0.0 0.0 0.0	0.658000E-00 0.0 0.0	0.0 0.0 0.0	0.658000E-00 0.0 0.0
NUCLIDE 468	IN109	0.458431E-04 0.0 0.0 2 IN109M 1.00000	0.0 0.0 0.0	0.202000E-01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 469	ZR110	0.173660E-01 0.418000E-10 0.205000E-10	0.0 0.181000E-09 0.173000E-10	0.969370E-01 0.524000E-10 0.149000E-08	0.0 0.0 0.0	0.0 0.230000E-07 0.695000E-08
NUCLIDE 470	NB110	0.526820E-01 0.431000E-06 0.683000E-06 1 ZR110 1.00000	0.0 0.198000E-05 0.613000E-06	0.121220E-02 0.154000E-05 0.279000E-04	0.0 0.134000E-03 0.449000E-07	0.0 0.117000E-03 0.216000E-04
NUCLIDE 471	MO110	0.221870E-00 0.212000E-05 0.405400E-02 1 NB110 1.00000	0.0 0.103500E-02 0.100800E-02	0.616000E-01 0.211100E-02 0.147770E-01	0.0 0.132090E-01 0.396000E-04	0.0 0.291380E-01 0.338700E-02
NUCLIDE 472	TC110	0.295380E-00 0.605200E-02 0.854920E-01 1 MO110 1.00000	0.0 0.311230E-01 0.863270E-01	0.859250E-01 0.152950E-00 0.536360E-00	0.0 0.963060E-01 0.330100E-02	0.0 0.457180E-00 0.358430E-01
NUCLIDE 473	KU110	0.476390E-02 0.179740E-01 0.533700E-00 1 TC110 1.00000	0.0 0.956760E-01 0.563060E-00	0.264230E-01 0.875870E-00 0.186800E-01	0.0 0.140140E-00 0.210630E-01	0.0 0.953120E-00 0.612320E-01
NUCLIDE 474	KH110	0.138629E-00 0.200010E-01 0.732490E-00 1 RU110 1.00000	0.0 0.107230E-00 0.785240E-00	0.550000E-01 0.116610E-01 0.215300E-01	0.243730E-01 0.141860E-00 0.491380E-01	0.561000E-01 0.999400E-00 0.627780E-01
NUCLIDE 475	PD110	0.0 0.200230E-01 0.738940E-00 1 RH110 1.00000	0.0 0.107360E-00 0.792870E-00	0.0 0.117480E-01 0.215710E-01	0.0 0.141870E-00 0.490680E-01	0.0 0.999670E-00 0.627830E-01
NUCLIDE 476	AG110M	0.317098E-07 0.647000E-06 0.584000E-05 3 AG109 0.03300	0.0 0.415000E-07 0.730000E-05	0.299000E-01 0.675000E-05 0.155000E-05	0.183000E-01 0.405000E-09 0.751000E-06	0.273500E-01 0.376000E-07 0.481000E-09
NUCLIDE 477	AG110	0.281767E-01 0.731000E-08 0.658000E-05 3 AG109 0.96700	0.0 0.469000E-07 0.825000E-05	0.287000E-01 0.763000E-05 0.175000E-05	0.115470E-01 0.431000E-09 0.183000E-06	0.876000E-01 0.425000E-07 0.544000E-09
NUCLIDE 478	CD110	0.0 0.137000E-07 0.123000E-04 1 AG110M 0.98700	0.0 0.877000E-07 0.154000E-04	0.0 0.143000E-04 0.327000E-05	0.0 0.432000E-09 0.330000E-06	0.0 0.796000E-07 0.102000E-08
NUCLIDE 479	TC111	0.310020E-00 0.175100E-02 0.962200E-02	0.0 0.304400E-02 0.121330E-01	0.712560E-01 0.318650E-01 0.696040E-01	0.0 0.284880E-01 0.110000E-03	0.0 0.148580E-00 0.212020E-01
NUCLIDE 480	KU111	0.501140E-01 0.124860E-01 0.133210E-00 1 TC111 1.00000	0.0 0.227010E-01 0.176550E-00	0.536190E-01 0.512760E-00 0.485220E-00	0.0 0.558330E-01 0.750300E-02	0.0 0.650720E-00 0.687060E-01
NUCLIDE 481	KH111	0.403030E-02 0.180090E-01 0.259870E-00 1 RU111 1.00000	0.0 0.333290E-01 0.353530E-00	0.365050E-01 0.108380E-01 0.893870E-00	0.0 0.402880E-00 0.270250E-01	0.0 0.796350E-00 0.778860E-01

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NUCLIDE 482	PD111M	0.350074E-04 0.294000E-03 0.945900E-02 1 RH111 0.01000	0.0 0.548000E-03 0.111820E-01	0.720000E 00 0.381950E-01 0.108290E-01	0.0 0.105800E-02 0.706000E-03	0.0 0.943500E-02 0.830000E-03
NUCLIDE 483	PD111	0.525112E-03 0.181560E-01 0.269390E 00 1 RH111 0.99000	0.0 0.336220E-01 0.365990E 00 2 PD111M 0.75000	0.213000E 01 0.112900E 01 0.69890E 00	0.652840E 00 0.102680E 00 0.77950E-01	0.0 0.796940E 00 0.777950E-01
NUCLIDE 484	AG111M	0.936685E-02 0.181930E-01 0.270370E 00 1 PD111M 0.12500	0.0 0.336910E-01 0.367430E 00 1 PD111 1.00000	0.700000E-01 0.113390E 01 0.700300E 00	0.0 0.102810E 00 0.779970E-01	0.700000E-01 0.827350E 00 0.779000E-01
NUCLIDE 485	AG111	0.107253E-05 0.182300E-01 0.271750E 00 1 PD111M 0.12500	0.0 0.337600E-01 0.368860E 00 2 AG111M 1.00000	0.105000E 01 0.113880E 01 0.701660E 00	0.363580E 00 0.102940E 00 0.80880E-01	0.228700E-01 0.105120E 01 0.78000E-01
NUCLIDE 486	CD111M	0.237703E-03 0.236000E-10 0.624000E-08 4 IN111 0.00010	0.0 0.710000E-10 0.903000E-08	0.396000E 00 0.471000E-07 0.157000E-08	0.0 0.0 0.203000E-08	0.396000E 00 0.883000E-10 0.103000E-11
NUCLIDE 487	CD111	0.0 0.182300E-01 0.271750E 00 1 AG111 1.00000	0.0 0.458350E-01 0.368860E 00 2 CD111M 1.00000	0.0 0.113880E 01 0.100950E 01 4 IN111 0.99990	0.0 0.102940E 00 0.229270E-01	0.0 0.110000E 01 0.78000E-01
NUCLIDE 488	IN111M	0.144406E-02 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 489	IN111	0.284487E-05 0.0 0.0 4 SN111 1.00000	0.0 0.0 0.0 2 IN111M 1.00000	0.110000E 01 0.126000E-11 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 490	SN111	0.329130E-03 0.0 0.0	0.0 0.0 0.0	0.252000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 491	MO112	0.511310E 00 0.462000E-06 0.800000E-06	0.0 0.128000E-05 0.933000E-06	0.740420E 01 0.230000E-05 0.853000E-04	0.0 0.142000E-03 0.418000E-07	0.0 0.255000E-03 0.538000E-04
NUCLIDE 492	TC112	0.907550E 00 0.180000E-03 0.599000E-03 1 MO112 1.00000	0.0 0.328000E-03 0.742000E-03	0.982520E 01 0.247700E-02 0.233130E-01	0.0 0.108850E-01 0.472000E-04	0.0 0.489470E-01 0.650900E-02
NUCLIDE 493	RU112	0.290610E-01 0.414300E-02 0.249340E-01 1 TC112 1.00000	0.0 0.128520E-01 0.326050E-01	0.393590E 01 0.143440E 00 0.394670E 00	0.0 0.550660E-01 0.81000E-02	0.0 0.613840E 00 0.556920E-01
NUCLIDE 494	RH112	0.241750E-01 0.107840E-01 0.953210E-01 1 RU112 1.00000	0.0 0.343460E-01 0.129200E 00	0.637230E 01 0.694810E 00 0.857820E 00	0.0 0.879510E-01 0.972700E-02	0.0 0.113860E 01 0.865270E-01
NUCLIDE 495	PD112	0.916861E-05 0.117020E-01 0.112430E 00 1 RH112 1.00000	0.0 0.377040E-01 0.154470E 00	0.300000E 00 0.876110E 00 0.904610E 00	0.819530E-01 0.886330E-01 0.26770E-01	0.180000E-01 0.117720E 01 0.879980E-01
NUCLIDE 496	AG112	0.617118E-04 0.117160E-01 0.117080E 00 1 PD112 1.00000	0.0 0.377290E-01 0.158670E 00	0.401000E 01 0.886560E 00 0.904820E 00	0.143830E 01 0.886340E-01 0.126810E-01	0.637200E 00 0.117800E 01 0.880010E-01
NUCLIDE 497	CD112	0.0 0.17750E-01 0.117080E 00 1 AG112 1.00000	0.0 0.377290E-01 0.147540E 00 4 IN112 0.36000	0.0 0.903780E 00 0.904820E 00	0.0 0.886340E-01 0.126810E-01	0.0 0.123900E 01 0.880010E-01
NUCLIDE 498	IN112M	0.553406E-03 0.0 0.534000E-11	0.0 0.0 0.120000E-10	0.156000E 00 0.162000E-09 0.0	0.0 0.0 0.89000E-11	0.156000E 00 0.0 0.0
NUCLIDE 499	IN112	0.802254E-03 0.0 0.107000E-10 2 IN112M 1.00000	0.0 0.0 0.241000E-10	0.174100E 01 0.323000E-09 0.24000E-11	0.0 0.0 0.477000E-11	0.0 0.0 0.0
NUCLIDE 500	SN112	0.0 0.0 0.470000E-11 1 IN112 0.44000	0.0 0.0 0.106000E-10	0.0 0.142000E-09 0.0	0.0 0.0 0.30000E-11	0.0 0.0 0.0
NUCLIDE 501	TC113	0.872440E 00 0.172000E-04 0.289000E-04	0.0 0.394000E-04 0.311000E-04	0.835660E 01 0.192000E-03 0.319000E-03	0.0 0.129500E-02 0.185000E-03	0.0 0.318500E-02 0.802000E-03
NUCLIDE 502	RU113	0.195630E 00 0.143300E-02 0.452900E-02 1 TC113 1.00000	0.0 0.347500E-02 0.516300E-02	0.663790E 01 0.423430E-01 0.284590E-01	0.0 0.230420E-01 0.203000E-03	0.0 0.215670E 00 0.222620E-01
NUCLIDE 503	RH113	0.282860E-01 0.914200E-02 0.479230E-01 1 RU113 1.00000	0.0 0.231680E-01 0.573210E-01	0.492810E 01 0.403790E 00 0.132360E 00	0.0 0.315770E-01 0.855100E-02	0.0 0.824510E 00 0.650800E-01

NUCLIDE 504	PD113	0.770164E-04 0.126470E-01 0.818680E-01 1 RH113 1.00000	0.0 0.325770E-01 0.100180E 00	0.330000E 01 0.119330E 01 0.164850E 00	0.140180E 01 0.246130E-01 0.485860E-01	0.0 0.972470E 00 0.720890E-01
NUCLIDE 505	AG113M	0.962704E-02 0.132300E-02 0.921500E-02 1 PD113 0.10000	0.0 0.342400E-02 0.113950E-01	0.200000E 01 0.143780E 00 0.168490E-01	0.0 0.247800E-02 0.436500E-02	0.0 0.984740E-01 0.772900E-02
NUCLIDE 506	AG113	0.363285E-04 0.114410E-01 0.747150E-01 1 PD113 0.90000	0.0 0.294860E-01 0.915380E-01	0.200000E 01 0.109870E 01 0.148720E 00	0.659320E 00 0.491610E-01 0.172340E-01	0.290000E 00 0.876450E 00 0.649190E-01
NUCLIDE 507	CD113M	0.161614E-08 0.959000E-04 0.370000E-03	0.0 0.339400E-06 0.418000E-03	0.370000E 00 0.126000E-03 0.422000E-06	0.182090E 00 0.333000E-08 0.483000E-03	0.0 0.108000E-03 0.209000E-07
NUCLIDE 508	CD113	0.0 0.128310E-01 0.839350E-01 1 AG113M 1.00000	0.296230E-24 0.329100E-01 0.126760E 00 1 AG113 1.00000	0.0 0.124260E 01 0.163370E 00 1.00000 2 CD113M	0.0 0.246400E-01 0.196020E-01 0.00400	0.0 0.974920E 00 0.726480E-01
NUCLIDE 509	IN113M	0.115988E-03 0.882000E-11 0.645000E-09 4 SN113 1.00000	0.0 0.309400E-10 0.967000E-09	0.393000E 00 0.318000E-07 0.235000E-10	0.0 0.0 0.786000E-09	0.393000E 00 0.440000E-10 0.0
NUCLIDE 510	IN113	0.0 0.958000E-04 0.370000E-05 1 CD113M 0.99900	0.0 0.339000E-06 0.423000E-05	0.0 0.126000E-03 0.422000E-06 1.00000 4 SN113M	0.0 0.333000E-08 0.483000E-03 0.09000	0.0 0.108000E-03 0.209000E-07
NUCLIDE 511	SN113M	0.577623E-03 0.0 0.0	0.0 0.0 0.0	0.719000E-01 0.0 0.0	0.0 0.0 0.0	0.719000E-01 0.0 0.0
NUCLIDE 512	SN113	0.697612E-01 0.0 0.0 2 SN113M 0.91000	0.0 0.0 0.0	0.102000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 513	MO114	0.100940E 01 0.462000E-10 0.155000E-10	0.0 0.949400E-10 0.214000E-10	0.860130E 01 0.821000E-10 0.111000E-08	0.0 0.289000E-07 0.0	0.0 0.317000E-07 0.150000E-07
NUCLIDE 514	TC114	0.236510E 01 0.408000E-06 0.278000E-06 1 MO114 1.00000	0.0 0.891000E-06 0.409000E-06	0.110160E 02 0.207000E-03 0.597000E-03	0.0 0.600000E-04 0.436000E-07	0.0 0.130000E-03 0.378000E-04
NUCLIDE 515	RU114	0.102000E 00 0.173000E-03 0.235000E-03 1 TC114 1.00000	0.0 0.402000E-03 0.367000E-03	0.519050E 01 0.243800E-02 0.198000E-02	0.0 0.786600E-02 0.335000E-04	0.0 0.264400E-01 0.483000E-02
NUCLIDE 516	RH114	0.107370E 00 0.432800E-02 0.108950E-01 1 RU114 1.00000	0.0 0.105700E-01 0.179800E-01	0.761430E 01 0.153510E 00 0.260740E-01	0.0 0.303770E-01 0.448000E-02	0.0 0.347980E 00 0.433450E-01
NUCLIDE 517	PD114	0.481352E-02 0.118250E-01 0.449740E-01 1 RH114 1.00000	0.0 0.298460E-01 0.772000E-01	0.140000E 01 0.791040E 00 0.358810E-01	0.519050E 00 0.416910E-01 0.145070E-01	0.0 0.661730E 00 0.687070E-01
NUCLIDE 518	AG114	0.138629E 00 0.129460E-01 0.541380E-01 1 PD114 1.00000	0.0 0.328790E-01 0.939470E-01	0.400000E 01 0.101700E 01 0.588130E-01	0.202290E 01 0.420590E-01 0.144570E-01	0.0 0.686050E 00 0.699840E-01
NUCLIDE 519	CD114	0.0 0.129560E-01 0.343080E-01 1 AG114 1.00000	0.0 0.329100E-01 0.94270E-01 3 CD113 1.00000	0.0 0.102270E 01 0.588340E-01 1.00000 4 IN114M	0.0 0.420590E-01 0.196050E-01 0.03500	0.0 0.686160E 00 0.699880E-01 0.02000
NUCLIDE 520	IN114M	0.160451E-06 0.266000E-08 0.844000E-01	0.0 0.811000E-08 0.173000E-06	0.242000E 00 0.394000E-03 0.269000E-08	0.0 0.285000E-10 0.122000E-06	0.230000E 00 0.130000E-07 0.261000E-09
NUCLIDE 521	IN114	0.964043E-02 0.523000E-08 0.165000E-08 2 IN114M 0.96500	0.0 0.159000E-07 0.340000E-08	0.197500E 01 0.774000E-03 0.528000E-08	0.767390E 00 0.559000E-10 0.440000E-06	0.259800E-02 0.256000E-07 0.512000E-09
NUCLIDE 522	SN114	0.0 0.512000E-09 0.162000E-06 1 IN114 0.98000	0.0 0.156000E-07 0.333000E-06	0.0 0.724000E-03 0.548000E-08	0.0 0.348000E-10 0.435000E-09	0.0 0.250000E-07 0.302000E-09
NUCLIDE 523	RU115	0.582710E 00 0.192000E-03 0.112000E-04	0.0 0.290000E-04 0.235000E-04	0.785300E 01 0.126000E-03 0.122000E-03	0.0 0.120600E-02 0.696000E-06	0.0 0.385500E-02 0.689000E-03
NUCLIDE 524	RH115	0.121700E 00 0.170000E-03 0.485300E-04 1 RU115 1.00000	0.0 0.271300E-02 0.413300E-02	0.616990E 01 0.297050E-01 0.666500E-02	0.0 0.221170E-01 0.195000E-03	0.0 0.164990E 00 0.191760E-01
NUCLIDE 525	PD115	0.177730E-01 0.113000E-02 0.205770E-01 1 RH115 1.00000	0.0 0.189120E-01 0.481630E-01	0.450000E 01 0.443210E 00 0.308120E-01	0.0 0.201930E-01 0.339500E-02	0.0 0.642900E 00 0.359980E-01

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NUCLIDE 526	AG115M	0.128361E-01 0.168700E-02 0.134540E-02 1 PD115 0.280000	0.0 0.936400E-02 0.324860E-01	0.330000E 01 0.352170E 00 0.124090E-01	0.0 0.155880E-01 0.411800E-02	0.0 0.239570E 00 0.187300E-01
NUCLIDE 527	AG115	0.550117E-03 0.654900E-02 0.225080E-01 1 PD115 0.720000	0.0 0.176830E-01 0.536780E-01	0.330000E 01 0.347190E 00 0.259660E-01	0.724070E 00 0.376740E-01 0.376600E-02	0.119710E 01 0.347280E 00 0.433690E-01
NUCLIDE 528	CD115M	0.181917E-06 0.606000E-03 0.258600E-02 1 AG115 0.090000	0.0 0.185100E-02 0.611900E-02	0.163000E 01 0.678040E-01 0.242000E-02	0.805000E 00 0.340100E-02 0.104100E-02	0.336000E-01 0.572430E-01 0.398000E-02
NUCLIDE 529	CD115	0.359890E-05 0.993400E-02 0.344300E-01 1 AG115M 1.000000	0.0 0.256040E-01 0.826400E-01 1 AG115	0.111500E 01 0.870390E 00 0.395800E-01 0.910000	0.322310E 00 0.498820E-01 0.204910E-01	0.195000E 00 0.738620E 00 0.582290E-01
NUCLIDE 530	IN115M	0.427869E-04 0.993500E-02 0.344330E-01 1 CD115M 0.000200	0.515260E-24 0.256050E-01 0.826470E-01 1 CD115	0.360000E 00 0.870520E 00 0.395800E-01 1.000000	0.280120E 00 0.498830E-01 0.204950E-01	0.0 0.738840E 00 0.582340E-01
NUCLIDE 531	IN115	0.439591E-22 0.100450E-01 0.353010E-01 1 CD115M 0.999800	0.515260E-24 0.261780E-01 0.846440E-01 2 IN115M 0.950000	0.490000E 00 0.894980E 00 0.400240E-01 0.950000	0.153000E 00 0.507920E-01 0.209150E-01	0.0 0.759250E 00 0.593080E-01
NUCLIDE 532	SN115	0.0 0.105420E-01 0.370230E-01 1 IN115M 0.050000	0.0 0.274580E-01 0.887810E-01 1 IN115	0.0 0.939620E 00 0.420030E-01 1.000000	0.0 0.532860E-01 0.215400E-01 1.000000	0.0 0.880900E 00 0.627370E-01
NUCLIDE 533	SB115	0.362146E-03 0.0 0.0 0.0 4 TE115 1.000000	0.0 0.0 0.0 0.0	0.303000E 01 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
NUCLIDE 534	TE115	0.192541E-02 0.0 0.0	0.0 0.0 0.0	0.450000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 535	MO116	0.668590E 01 0.0 0.0	0.0 0.0 0.0	0.973630E 01 0.0 0.0	0.0 0.883000E-11 0.0	0.0 0.182000E-11 0.110000E-11
NUCLIDE 536	TC116	0.287140E 02 0.125000E-09 0.360000E-10 1 MO116 1.000000	0.0 0.317000E-09 0.476000E-10	0.121560E 02 0.290000E-09 0.164000E-08	0.0 0.108000E-06 0.544000E-11	0.0 0.110000E-06 0.416000E-07
NUCLIDE 537	RU116	0.740960E 00 0.786000E-06 0.460000E-06 1 TC116 1.000000	0.0 0.212000E-05 0.647000E-06	0.640000E 01 0.520000E-05 0.613000E-05	0.0 0.112000E-03 0.310000E-07	0.0 0.302000E-03 0.726000E-04
NUCLIDE 538	RH116	0.136780E 01 0.241000E-03 0.280000E-03 1 RU116 1.000000	0.0 0.690000E-03 0.417000E-03	0.881840E 01 0.439100E-02 0.114400E-02	0.0 0.632000E-02 0.314000E-04	0.0 0.421180E-01 0.659200E-02
NUCLIDE 539	PD116	0.159960E-01 0.452200E-02 0.964300E-06 1 RH116 1.000000	0.0 0.136310E-01 0.151340E-01	0.307940E 01 0.203820E 00 0.139950E-01	0.0 0.299940E-01 0.172100E-02	0.0 0.403140E 00 0.449410E-01
NUCLIDE 540	AG116	0.462098E-02 0.104130E-01 0.322860E-01 1 PD116 1.000000	0.0 0.323340E-01 0.527080E-01	0.610000E 01 0.841470E 00 0.256410E-01	0.221710E 01 0.375860E-01 0.800300E-02	0.110000E 01 0.662330E 00 0.637220E-01
NUCLIDE 541	CD116	0.0 0.110740E-01 0.368980E-01 1 AG116 1.000000	0.0 0.345460E-01 0.607490E-01	0.0 0.101290E 01 0.264740E-01	0.0 0.377570E-01 0.996700E-02	0.0 0.676600E 00 0.644030E-01
NUCLIDE 542	IN116M	0.213539E-03 0.232000E-05 0.313000E-04 3 IN115 1.000000	0.0 0.821000E-05 0.579000E-04	0.339000E 01 0.159200E-02 0.178000E-05	0.303000E 00 0.105000E-06 0.216000E-04	0.251000E 01 0.223000E-04 0.692000E-06
NUCLIDE 543	IN116	0.488132E-01 0.232000E-05 0.313000E-04	0.0 0.821000E-05 0.579000E-04	0.333000E 01 0.159200E-02 0.178000E-05	0.140400E 01 0.105000E-06 0.216000E-04	0.129000E-01 0.223000E-04 0.692000E-06
NUCLIDE 544	SN116	0.0 0.463000E-05 0.627000E-04 1 IN116M 1.000000	0.0 0.164000E-04 0.116000E-03 1 IN116	0.0 0.318800E-02 0.355000E-05 1.000000	0.0 0.210000E-06 0.433000E-04	0.0 0.446000E-04 0.138000E-05
NUCLIDE 545	RU117	0.250590E 04 0.142000E-06 0.133000E-07	0.0 0.905000E-07 0.262000E-07	0.901720E 01 0.176000E-06 0.259000E-06	0.0 0.958000E-05 0.190000E-08	0.0 0.198000E-04 0.506000E-05
NUCLIDE 546	RH117	0.651540E 00 0.148000E-03 0.278000E-04 1 RU117 1.000000	0.0 0.100000E-03 0.583000E-04	0.737000E 01 0.522000E-03 0.162000E-03	0.0 0.173500E-02 0.689000E-03	0.0 0.918200E-02 0.150900E-02
NUCLIDE 547	PD117	0.138629E 00 0.834700E-02 0.299200E-02 1 RH117 1.000000	0.0 0.596600E-02 0.665400E-02	0.573420E 01 0.771400E-01 0.573600E-02	0.0 0.207140E-01 0.124800E-02	0.0 0.248190E 00 0.275780E-01

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NUCLIDE 548	AG117	0.105022E-01 0.127140E-01 0.233330E-01 1 PD117 1.00000	0.0 0.294960E-01 0.543670E-01	0.380000E 01 0.778110E 00 0.196150E-01	0.0 0.375010E-01 0.49050E-01	0.0 0.712620E 00 0.625780E-01
NUCLIDE 549	CD117M	0.601690E-04 0.160900E-02 0.578300E-02	0.0 0.396700E-02 0.142350E-01	0.252000E 01 0.261030E 00 0.144800E-02	0.186000E 00 0.285000E-03 0.803900E-02	0.196400E 01 0.374930E-01 0.191300E-02
NUCLIDE 550	CD117	0.770164E-04 0.143230E-01 0.291350E-01 1 AG117 1.00000	0.0 0.334630E-01 0.683970E-01	0.252000E 01 0.104370E 01 0.210630E-01	0.474000E 00 0.360860E-01 0.409440E-01	0.125400E 01 0.750120E 00 0.644910E-01
NUCLIDE 551	IN117M	0.992479E-04 0.144090E-01 0.263830E-01 1 CD117 1.00000	0.0 0.335380E-01 0.692400E-01	0.109300E 01 0.105880E 01 0.210840E-01	0.350000E 00 0.380970E-01 0.213650E-01	0.179000E 00 0.750940E 00 0.649040E-01
NUCLIDE 552	IN117	0.262556E-03 0.843200E-02 0.188400E-01 1 CD117M 1.00000	0.0 0.198340E-01 0.474210E-01	0.147000E 01 0.773710E 00 0.113780E-01	0.246540E 00 0.184950E-01 0.165010E-01	0.730000E 00 0.390950E 00 0.356900E-01
NUCLIDE 553	SN117M	0.573038E-06 0.445000E-07 0.601000E-06	0.0 0.123000E-06 0.166000E-05	0.317000E 00 0.507000E-04 0.148000E-07	0.0 0.92000E-09 0.174000E-05	0.317000E 00 0.213000E-06 0.445000E-08
NUCLIDE 554	SN117	0.0 0.161020E-01 0.354140E-01 1 IN117M 0.53000	0.0 0.376200E-01 0.841220E-01	0.0 0.133500E 01 0.225320E-01	0.0 0.387060E-01 0.278280E-01	0.0 0.789200E 00 0.69870E-01
NUCLIDE 555	SB117	0.687646E-04 0.447000E-11 0.141000E-09 4 TE117 1.00000	0.0 0.150000E-10 0.412000E-09	0.182000E 01 0.166000E-07 0.101000E-11	0.0 0.0 0.08000E-09	0.0 0.988000E-11 0.0
NUCLIDE 556	TE117	0.180507E-03 0.0 0.0	0.0 0.0 0.0	0.350000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 557	RU118	0.175670E 01 0.748000E-04 0.393000E-09	0.0 0.333000E-08 0.763000E-09	0.754540E 01 0.384000E-08 0.111000E-07	0.0 0.735000E-06 0.202000E-10	0.0 0.958000E-06 0.310000E-06
NUCLIDE 558	RH118	0.440200E 01 0.233000E-04 0.247000E-05 1 RU118 1.00000	0.0 0.110000E-04 0.510000E-05	0.997490E 01 0.339000E-04 0.206000E-04	0.0 0.273000E-03 0.250000E-06	0.0 0.127200E-02 0.266000E-03
NUCLIDE 559	PD118	0.223596E 00 0.364500E-02 0.759000E-05 1 RH118 1.00000	0.0 0.182600E-02 0.166400E-02	0.431210E 01 0.143870E-01 0.197900E-02	0.0 0.109290E-01 0.488000E-03	0.0 0.896070E-01 0.121470E-01
NUCLIDE 560	AG118	0.138629E 00 0.105580E-01 0.142380E-01 1 PD118 1.00000	0.0 0.202790E-01 0.327950E-01	0.678270E 01 0.359210E 00 0.141090E-01	0.0 0.330210E-01 0.564700E-02	0.0 0.502300E 00 0.501490E-01
NUCLIDE 561	CD118	0.235764E-03 0.145230E-01 0.327840E-01 1 AG118 1.00000	0.0 0.354410E-01 0.777950E-01	0.800000E 00 0.981380E 00 0.203510E-01	0.270810E 00 0.268740E-01 0.463810E-01	0.0 0.663930E 00 0.605680E-01
NUCLIDE 562	IN118M	0.256721E-02 0.119000E-03 0.104000E-04	0.0 0.487000E-03 0.266000E-02	0.430000E 01 0.464810E-01 0.120000E-03	0.519000E 00 0.221000E-04 0.460500E-02	0.267600E 01 0.228500E-02 0.949000E-04
NUCLIDE 563	IN118	0.135911E 00 0.146470E-01 0.338250E-01 1 CD118 1.00000	0.0 0.359280E-01 0.804550E-01	0.420000E 01 0.102790E 01 0.204710E-01	0.173880E 01 0.268960E-01 0.481860E-01	0.185000E 00 0.666210E 00 0.609630E-01
NUCLIDE 564	SN118	0.0 0.147620E-01 0.348800E-01 1 IN118M 1.00000	0.0 0.364190E-01 0.831950E-01	0.0 0.107520E 01 0.205910E-01	0.0 0.369180E-01 0.498290E-01	0.0 0.668500E 00 0.605580E-01
NUCLIDE 565	SB118M	0.388187E-04 0.977000E-10 0.257000E-08	0.0 0.342000E-09 0.740000E-08	0.389000E 01 0.221000E-06 0.267000E-10	0.0 0.0 0.115000E-07	0.0 0.261000E-09 0.434000E-11
NUCLIDE 566	SB118	0.330070E-02 0.977000E-10 0.237000E-08 4 TE118 1.00000	0.0 0.342000E-09 0.740000E-08	0.370000E 01 0.221000E-06 0.267000E-10	0.0 0.0 0.115000E-07	0.0 0.261000E-09 0.434000E-11
NUCLIDE 567	TE118	0.133709E-05 0.0 0.0	0.0 0.0 0.0	0.300000E 00 0.100000E-10 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 568	RH119	0.169930E 01 0.669000E-06 0.324000E-06	0.0 0.134000E-05 0.386000E-06	0.850770E 01 0.160000E-06 0.347000E-05	0.0 0.732000E-04 0.262000E-07	0.0 0.248000E-04 0.552000E-04

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NUCLIDE 569	PD119	0.431950E-00 0.231000E-03 0.227000E-03 1 RH119 1.00000	0.0 0.538000E-03 0.307000E-03	0.693000E-01 0.453000E-03 0.746000E-03	0.0 0.270400E-02 0.082000E-04	0.0 0.991300E-02 0.346000E-02
NUCLIDE 570	AG119	0.805510E-01 0.480400E-02 0.851300E-02 1 PD119 1.00000	0.0 0.127480E-01 0.134850E-01	0.538910E-01 0.650380E-01 0.980500E-02	0.0 0.287910E-01 0.441600E-02	0.0 0.234820E-00 0.398040E-01
NUCLIDE 571	CD119M	0.427869E-02 0.587400E-02 0.153810E-01 1 AG119 0.50000	0.0 0.168590E-01 0.267600E-01	0.350000E-01 0.340310E-00 0.944200E-02	0.0 0.483860E-01 0.116170E-01	0.0 0.310530E-00 0.289600E-01
NUCLIDE 572	CD119	0.115525E-02 0.587400E-02 0.153810E-01 1 AG119 0.50000	0.0 0.168590E-01 0.267600E-01	0.320000E-01 0.320310E-00 0.944200E-02	0.435120E-01 0.183860E-01 0.116170E-01	0.300000E-00 0.310530E-00 0.289600E-01
NUCLIDE 573	IN119M	0.641803E-03 0.924300E-02 0.253760E-01 1 CD119M 0.50000	0.0 0.267750E-01 0.452420E-01 1 CD119 1.00000	0.267500E-01 0.689590E-00 0.443250E-01	0.407350E-01 0.476770E-01 0.408460E-01	0.730000E-01 0.493200E-00 0.437970E-01
NUCLIDE 574	IN119	0.525112E-02 0.383200E-02 0.114750E-01 1 CD119M 0.50000	0.0 0.112560E-01 0.207770E-01 2 IN119M 0.50000	0.250000E-01 0.403760E-00 0.380900E-02	0.430870E-00 0.406750E-01 0.402700E-01	0.835000E-00 0.207330E-00 0.470270E-01
NUCLIDE 575	SN119M	0.327450E-07 0.195000E-03 0.612000E-03 1 IN119 0.05000	0.0 0.576000E-03 0.112900E-02	0.890000E-04 0.319300E-01 0.294000E-03	0.434000E-03 0.434000E-03 0.434000E-03	0.890000E-01 0.106160E-01 0.852000E-03
NUCLIDE 576	SN119	0.0 0.130810E-01 0.371270E-01 1 IN119M 0.95000	0.0 0.380580E-01 0.662490E-01 1 IN119 0.95000	0.0 0.111690E-01 0.403370E-01 0.95000 2 SN119M 1.00000	0.0 0.383520E-01 0.12940E-01 1.00000 4 SB119	0.0 0.701030E-00 0.608250E-01 1.00000
NUCLIDE 577	SB119	0.505357E-05 0.271000E-06 0.611000E-07 4 TE119M 1.00000	0.0 0.125000E-07 0.167500E-06 4 TE119 1.00000	0.580000E-00 0.768000E-04 0.821000E-09 1.00000	0.0 0.65000E-10 0.95000E-06	0.0 0.231000E-06 0.169000E-09
NUCLIDE 578	TE119M	0.170692E-02 0.0 0.114000E-11	0.0 0.0 0.364000E-11	0.254400E-01 0.610000E-08 0.0	0.0 0.0 0.47000E-11	0.0 0.246000E-11 0.0
NUCLIDE 579	TE119	0.120338E-04 0.0 0.114000E-11	0.0 0.0 0.364000E-11	0.229400E-01 0.610000E-08 0.0	0.0 0.0 0.47000E-11	0.0 0.246000E-11 0.0
NUCLIDE 580	KU120	0.327050E-01 0.417000E-11 0.0	0.0 0.672000E-11 0.0	0.847500E-01 0.0 0.573000E-10	0.0 0.001000E-08 0.0	0.0 0.127000E-09 0.173000E-08
NUCLIDE 581	RH120	0.114050E-04 0.727000E-07 0.263000E-07 1 RU120 1.00000	0.0 0.137000E-06 0.288000E-07	0.110280E-02 0.465000E-08 0.535000E-08	0.0 0.465000E-04 0.48000E-08	0.0 0.258000E-03 0.802000E-03
NUCLIDE 582	PD120	0.334700E-00 0.595000E-04 0.445000E-07 1 RH120 1.00000	0.0 0.130000E-03 0.567000E-04	0.549980E-01 0.641000E-04 0.265000E-03	0.0 0.430700E-02 0.431000E-04	0.0 0.246000E-02 0.183400E-02
NUCLIDE 583	AG120	0.576260E-00 0.268900E-02 0.393200E-02 1 PD120 1.00000	0.0 0.674200E-02 0.576700E-02	0.805030E-01 0.214720E-01 0.776000E-02	0.0 0.421950E-01 0.93800E-02	0.0 0.127480E-00 0.266850E-01
NUCLIDE 584	CD120	0.947240E-02 0.108870E-01 0.262210E-01 1 AG120 1.00000	0.0 0.301220E-01 0.490440E-01	0.278650E-01 0.435010E-00 0.224540E-01	0.0 0.262960E-01 0.95460E-01	0.0 0.569540E-00 0.534340E-01
NUCLIDE 585	IN120M	0.216608E-00 0.651800E-02 0.184350E-01 1 CD120 0.50000	0.0 0.185370E-01 0.315030E-01	0.560000E-01 0.543800E-00 0.124930E-01	0.441600E-01 0.485330E-01 0.63300E-01	0.176000E-00 0.350500E-00 0.278700E-01
NUCLIDE 586	IN120	0.144406E-01 0.651800E-02 0.184350E-01 1 CD120 0.50000	0.0 0.185370E-01 0.315030E-01	0.560000E-01 0.523800E-00 0.124930E-01	0.441590E-01 0.485330E-01 0.63300E-01	0.175650E-00 0.350500E-00 0.278700E-01
NUCLIDE 587	SN120	0.0 0.130750E-01 0.372470E-01 1 IN120M 1.00000	0.0 0.372190E-01 0.639840E-01 1 IN120 1.00000	0.0 0.112250E-01 0.250140E-01 1.00000 4 SB120M 1.00000	0.0 0.370690E-01 0.334190E-01 1.00000 4 SB120	0.0 0.703740E-00 0.557520E-01 1.00000
NUCLIDE 588	SB120M	0.139280E-05 0.186000E-07 0.371000E-06	0.0 0.807000E-07 0.934000E-06	0.269000E-01 0.284000E-03 0.808000E-08	0.0 0.189000E-09 0.427000E-05	0.0 0.153000E-05 0.157000E-08
NUCLIDE 589	SB120	0.722028E-03 0.186000E-07 0.371000E-06	0.0 0.807000E-07 0.934000E-06	0.269000E-01 0.284000E-03 0.808000E-08	0.0 0.189000E-09 0.427000E-05	0.0 0.153000E-05 0.157000E-08
NUCLIDE 590	TE120	0.0 0.167000E-11 0.698000E-10	0.0 0.845000E-11 0.205000E-09	0.0 0.220000E-06 0.0	0.0 0.0 0.418000E-09	0.0 0.160000E-09 0.0

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NUCLIDE 591	RH121	0.312710E-01 0.487000E-08 0.231000E-08	0.0 0.118000E-07 0.227000E-08	0.932120E-01 0.435000E-09 0.601000E-07	0.0 0.467000E-05 0.213000E-09	0.0 0.318000E-06 0.930000E-06
NUCLIDE 592	PD121	0.117170E-01 0.930000E-05 0.888000E-05 1 RH121 1.00000	0.0 0.262000E-04 0.102000E-04	0.804700E-01 0.712000E-05 0.666000E-04	0.0 0.819000E-03 0.147000E-05	0.0 0.685000E-03 0.472000E-03
NUCLIDE 593	AG121	0.392110E-00 0.920000E-03 0.170400E-02 1 PD121 1.00000	0.0 0.299100E-02 0.225800E-02	0.683030E-01 0.549600E-02 0.396700E-02	0.0 0.153560E-01 0.493000E-03	0.0 0.759970E-01 0.138260E-01
NUCLIDE 594	CD121	0.533190E-01 0.670700E-05 0.213720E-01 1 AG121 1.00000	0.0 0.244400E-01 0.320320E-01	0.486000E-01 0.234950E-00 0.196130E-01	0.0 0.353600E-01 0.498300E-02	0.0 0.606790E-00 0.417740E-01
NUCLIDE 595	IN121M	0.372660E-02 0.330900E-02 0.129820E-01 1 CD121 0.18000	0.0 0.107990E-01 0.214150E-01	0.360000E-01 0.342550E-00 0.616800E-02	0.153780E-01 0.748700E-02 0.882700E-02	0.0 0.263750E-00 0.995700E-02
NUCLIDE 596	IN121	0.231049E-01 0.718100E-01 0.266600E-01 1 CD121 0.82000	0.0 0.264410E-01 0.419290E-01	0.360000E-01 0.332920E-00 0.487200E-01	0.109200E-01 0.301180E-01 0.152160E-01	0.940000E-00 0.652090E-00 0.366920E-01
NUCLIDE 597	SN121M	0.289205E-09 0.597600E-02 0.671000E-03	0.0 0.289000E-03 0.131300E-02	0.453000E-00 0.848110E-01 0.631000E-04	0.141000E-00 0.786000E-05 0.853000E-03	0.0 0.679300E-02 0.279000E-04
NUCLIDE 598	SN121	0.734889E-05 0.118480E-01 0.403140E-01 1 IN121M 1.00000	0.0 0.375290E-01 0.646370E-01	0.383000E-00 0.100030E-01 0.449540E-01	0.115000E-00 0.376130E-01 0.248960E-01	0.0 0.922630E-00 0.466760E-01
NUCLIDE 599	SB121	0.0 0.178240E-01 0.414770E-01 1 SN121M 1.00000	0.437060E-24 0.378200E-01 0.659840E-01	0.0 0.109400E-01 0.250140E-01	0.0 0.376210E-01 0.282040E-01	0.0 0.117450E-01 0.469950E-01
NUCLIDE 600	TE121M	0.534836E-07 0.269000E-10 0.498000E-09	0.0 0.927000E-10 0.168000E-08	0.423000E-00 0.117000E-05 0.500000E-11	0.0 0.0 0.455000E-08	0.0 0.200000E-08 0.0
NUCLIDE 601	TE121	0.471914E-06 0.510000E-10 0.446000E-09 2 TE121M 0.90000	0.0 0.176000E-09 0.319000E-08	0.129000E-01 0.222000E-05 0.951000E-11	0.0 0.0 0.495000E-08	0.0 0.481000E-08 0.0
NUCLIDE 602	I 121	0.908212E-04 0.0 0.0	0.0 0.0 0.0	0.236000E-01 0.987000E-10 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 603	RU122	0.630020E-01 0.0 0.0	0.0 0.0 0.0	0.962660E-01 0.0 0.0	0.0 0.301000E-10 0.0	0.0 0.0 0.439000E-11
NUCLIDE 604	RH122	0.268270E-04 0.697000E-09 0.188000E-09 1 RU122 1.00000	0.0 0.142000E-08 0.165000E-09	0.120690E-02 0.271000E-10 0.590000E-08	0.0 0.410000E-06 0.214000E-10	0.0 0.243000E-07 0.104000E-06
NUCLIDE 605	PD122	0.832450E-00 0.285000E-05 0.161000E-05 1 RH 1.00000	0.0 0.676000E-05 0.165000E-05	0.654370E-01 0.962000E-06 0.144000E-04	0.0 0.464000E-03 0.319000E-06	0.0 0.113000E-03 0.115000E-03
NUCLIDE 606	AG122	0.163420E-01 0.580000E-03 0.663000E-03 1 PD122 1.00000	0.0 0.159200E-02 0.790000E-03	0.898540E-01 0.157900E-02 0.178900E-02	0.0 0.759100E-02 0.225000E-03	0.0 0.257370E-01 0.686000E-02
NUCLIDE 607	CD122	0.294610E-01 0.764600E-04 0.161340E-01 1 AG122 1.00000	0.0 0.237590E-01 0.219200E-01	0.345980E-01 0.135470E-00 0.156630E-01	0.0 0.234040E-01 0.885900E-02	0.0 0.374510E-00 0.339160E-01
NUCLIDE 608	IN122	0.866434E-01 0.145410E-01 0.433660E-01 1 CD122 1.00000	0.0 0.482120E-01 0.640080E-01	0.670000E-01 0.883600E-00 0.245770E-01	0.221150E-01 0.385000E-01 0.326160E-01	0.170000E-01 0.749920E-00 0.430380E-01
NUCLIDE 609	SN122	0.0 0.150750E-01 0.473320E-01 1 IN122 1.00000	0.0 0.503740E-01 0.709830E-01	0.0 0.123260E-01 0.250140E-01	0.0 0.385740E-01 0.381060E-01	0.0 0.782280E-00 0.432560E-01
NUCLIDE 610	SB122M	0.275058E-02 0.124000E-05 0.186000E-04	0.0 0.583000E-05 0.377000E-04	0.162000E-00 0.598800E-02 0.616000E-06	0.0 0.476000E-07 0.430000E-04	0.162000E-00 0.847000E-04 0.142000E-06
NUCLIDE 611	SB122	0.292793E-05 0.249000E-05 0.371000E-04 3 SB121 1.00000	0.0 0.117000E-04 0.754000E-04	0.196100E-01 0.119710E-01 0.123000E-05	0.0 0.0 0.600000E-04	0.413000E-00 0.169000E-03 0.283000E-06
NUCLIDE 612	TE122	0.0 0.241000E-02 0.360000E-04 1 SB122 0.97000	0.0 0.113000E-04 0.732000E-04	0.0 0.116350E-01 0.120000E-05	0.0 0.0 0.0	0.0 0.164000E-03 0.275000E-06

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NUCLIDE 613	RH123	0.731010E 01 0.595000E-10 0.128000E-10	0.0 0.128000E-09 0.110000E-10	0.105850E 02 0.107000E-11 0.541000E-09	0.0 0.206000E-07 0.124000E-11	0.0 0.178000E-08 0.996000E-08
NUCLIDE 614	PD123	0.257390E 01 0.541000E-06 0.244000E-06 1 RH123 1.00000	0.0 0.136000E-03 0.245000E-06	0.905340E 01 0.856000E-07 0.283000E-03	0.0 0.113000E-04 0.402000E-07	0.0 0.183000E-04 0.235000E-04
NUCLIDE 615	AG123	0.746400E 00 0.237000E-03 0.219000E-03 1 PD123 1.00000	0.0 0.691000E-03 0.255000E-03	0.752150E 01 0.310000E-03 0.726000E-03	0.0 0.231600E-02 0.603000E-04	0.0 0.903800E-02 0.284500E-02
NUCLIDE 616	CD123	0.163050E 00 0.607300E-02 0.107220E-01 1 AG123 1.00000	0.0 0.202290E-01 0.143910E-01	0.598930E 01 0.561590E-01 0.117130E-01	0.0 0.311020E-01 0.475300E-02	0.0 0.257640E 00 0.243420E-01
NUCLIDE 617	IN123M	0.192541E-01 0.679300E-04 0.204230E-04 1 CD123 0.23000	0.0 0.250990E-01 0.302630E-01	0.450000E 01 0.320190E 00 0.921600E-02	0.497000E 01 0.124610E-01 0.152330E-01	0.0 0.313040E 00 0.123370E-01
NUCLIDE 618	IN123	0.115525E 00 0.100730E-01 0.259130E-04 1 CD123 0.77000	0.0 0.360230E-01 0.380360E-01	0.450000E 01 0.330470E 00 0.155470E-01	0.0 0.492560E-01 0.158000E-01	0.0 0.452170E 00 0.254820E-01
NUCLIDE 619	SN123M	0.286661E-03 0.992400E-02 0.280110E-04 1 IN123M 0.50000	0.0 0.341470E-01 0.427940E-01	0.144400E 01 0.607050E 00 0.130040E-01	0.456000E 00 0.210170E-01 0.197690E-01	0.184000E 00 0.423790E 00 0.192310E-01
NUCLIDE 620	SN123	0.621902E-01 0.140210E-01 0.280110E-04 1 IN123M 0.50000	0.0 0.341470E-01 0.427940E-01	0.142000E 01 0.607050E 00 0.130040E-01	0.524140E 00 0.210170E-01 0.197690E-01	0.0 0.423790E 00 0.247400E-01
NUCLIDE 621	SB123	0.0 0.239660E-01 0.562190E-04 1 SN123M 1.00000	0.328200E-24 0.683360E-01 0.859790E-01	0.0 0.125210E 01 0.260190E-01	0.0 0.420350E-01 0.398700E-01	0.0 0.852450E 00 0.439730E-01
NUCLIDE 622	TE123M	0.685687E-07 0.339000E-08 0.105000E-06	0.0 0.241000E-07 0.239000E-06	0.247500E 00 0.783000E-04 0.108000E-08	0.0 0.405000E-10 0.491000E-06	0.247500E 00 0.275000E-06 0.140000E-09
NUCLIDE 623	TE123	0.177254E-20 0.108000E-07 0.208000E-06 2 TE123M 1.00000	0.0 0.483000E-07 0.478000E-06 4 1 123 1.00000	0.0 0.157000E-03 0.216000E-08	0.0 0.410000E-10 0.581000E-06	0.0 0.251000E-06 0.280000E-09
NUCLIDE 624	I 123	0.146978E-04 0.0 0.101000E-10	0.0 0.132000E-11 0.274000E-10	0.140000E 01 0.318000E-07 0.0	0.0 0.0 0.484000E-10	0.0 0.146000E-10 0.0
NUCLIDE 625	RU124	0.106070E 02 0.0 0.0	0.0 0.0 0.0	0.106320E 02 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 626	RH124	0.567930E 02 0.287000E-11 0.0 1 RU124 1.00000	0.0 0.661000E-11 0.0	0.130620E 02 0.0 0.303000E-10	0.0 0.24000E-08 0.0	0.0 0.838000E-10 0.396000E-09
NUCLIDE 627	PD124	0.181000E 01 0.640000E-07 0.264000E-07 1 RH124 1.00000	0.0 0.172000E-06 0.286000E-07	0.758860E 01 0.477000E-08 0.387000E-06	0.0 0.140000E-04 0.609000E-08	0.0 0.210000E-05 0.322000E-05
NUCLIDE 628	AG124	0.458390E 01 0.667000E-04 0.552000E-04 1 PD124 1.00000	0.0 0.209000E-03 0.696000E-04	0.100180E 02 0.421000E-04 0.235000E-03	0.0 0.432700E-02 0.408000E-04	0.0 0.239500E-02 0.852000E-03
NUCLIDE 629	CD124	0.123000E 00 0.375900E-02 0.395100E-02 1 AG124 1.00000	0.0 0.135010E-01 0.865800E-02	0.454390E 01 0.178730E-01 0.808100E-02	0.0 0.458390E-01 0.336100E-02	0.0 0.146640E 00 0.140630E-01
NUCLIDE 630	IN124	0.173287E 00 0.178410E-01 0.464380E-04 1 CD124 1.00000	0.0 0.710390E-01 0.758170E-01	0.740000E 01 0.446250E 00 0.271410E-01	0.221150E 01 0.451580E-01 0.364240E-01	0.240000E 01 0.740120E 00 0.301390E-01
NUCLIDE 631	SN124	0.0 0.178510E-01 0.694390E-04 1 IN124 1.00000	0.0 0.919480E-01 0.118970E 00	0.0 0.121920E 01 0.340180E-01	0.0 0.463990E-01 0.629310E-01	0.0 0.945270E 00 0.317210E-01
NUCLIDE 632	SB124M	0.569086E-03 0.251000E-05 0.492000E-03	0.0 0.272000E-03 0.105800E-02	0.618000E 00 0.577410E-01 0.263000E-04	0.654000E-01 0.635000E-05 0.829000E-03	0.385000E 00 0.252300E-02 0.479000E-03
NUCLIDE 633	SB124	0.133265E-06 0.115000E-04 0.880030E-04 3 SB123 1.00000	0.0 0.490000E-03 0.190400E-02	0.291600E 01 0.103930E 00 0.474000E-04	0.273550E 00 0.423000E-05 0.149200E-02	0.189760E 01 0.258060E-01 0.862000E-05
NUCLIDE 634	TE124	0.0 0.120000E-04 0.881050E-01 1 SB124M 0.20000	0.0 0.545000E-03 0.212200E-02	0.0 0.116600E 00 0.527000E-04	0.0 0.470000E-05 0.166400E-02	0.0 0.261180E-01 0.958000E-05

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NUCLIDE 635	AG125	0.176380E-01 0.126000E-04 0.183000E-04	0.0 0.363000E-04 0.240000E-04	0.855530E-01 0.584000E-05 0.704000E-04	0.0 0.740000E-03 0.112000E-05	0.0 0.696000E-03 0.383000E-03
NUCLIDE 636	CD125	0.480890E-00 0.143300E-02 0.384400E-02 1 AG125 1.00000	0.0 0.477800E-02 0.581700E-02	0.704230E-01 0.523700E-02 0.523300E-02	0.0 0.211270E-02 0.224900E-02	0.0 0.943620E-01 0.106270E-01
NUCLIDE 637	IN125M	0.385082E-01 0.556600E-02 0.251840E-01 1 CD125 0.30000	0.0 0.209680E-01 0.433390E-01	0.552940E-01 0.121370E-00 0.142610E-01	0.0 0.228390E-01 0.211810E-01	0.0 0.424390E-00 0.133900E-01
NUCLIDE 638	IN125	0.277259E-00 0.613900E-02 0.267210E-01 1 CD125 0.70000	0.0 0.228790E-01 0.456660E-01	0.552940E-01 0.129470E-00 0.163540E-01	0.0 0.312900E-01 0.220800E-01	0.0 0.462140E-00 0.176410E-01
NUCLIDE 639	SN125M	0.120338E-02 0.184690E-01 0.705130E-01 1 IN125M 0.92000	0.0 0.484910E-01 0.118860E-00 1 IN125 0.70000	0.238600E-01 0.630790E-00 0.297920E-01	0.798000E-00 0.451360E-01 0.281990E-01	0.349000E-00 0.987940E-00 0.263580E-01
NUCLIDE 640	SN125	0.831351E-06 0.646700E-02 0.280230E-01 1 IN125M 0.08000	0.0 0.217460E-01 0.641700E-01 1 IN125 0.30000	0.234000E-01 0.419280E-00 0.112710E-01	0.201600E-01 0.876300E-01 0.478870E-01	0.970000E-01 0.346430E-00 0.799600E-02
NUCLIDE 641	SB125	0.805112E-08 0.253110E-01 0.109290E-00 1 SN125M 1.00000	0.0 0.715820E-01 0.191600E-00 1 SN125 1.00000	0.731000E-00 0.129160E-01 0.413750E-01	0.930000E-01 0.112830E-00 0.114080E-00	0.421000E-00 0.136500E-01 0.343900E-01
NUCLIDE 642	TE125M	0.138320E-06 0.531600E-02 0.229610E-01 1 SB125 0.21000	0.0 0.150340E-01 0.402590E-01	0.144900E-00 0.273600E-00 0.868900E-02	0.0 0.236930E-01 0.239790E-01	0.144900E-00 0.286850E-00 0.722200E-02
NUCLIDE 643	TE125	0.0 0.253120E-01 0.109310E-00 1 SB125 0.79000	0.0 0.715870E-01 0.191650E-00 2 TE125M 1.00000	0.0 0.129650E-01 0.413760E-01 4 I 125 1.00000	0.0 0.112830E-00 0.114130E-00	0.0 0.137300E-01 0.343900E-01
NUCLIDE 644	I 125	0.134381E-06 0.122000E-09 0.479000E-08 4 XE125 1.00000	0.0 0.592000E-09 0.131000E-07	0.149000E-00 0.480000E-05 0.403000E-10	0.0 0.0 0.180000E-07	0.0 0.129000E-07 0.0
NUCLIDE 645	XE125M	0.126027E-01 0.0 0.0	0.0 0.0 0.0	0.250000E-00 0.118000E-09 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 646	XE125	0.113259E-04 0.0 0.0 2 XE125M 1.00000	0.0 0.0 0.0	0.190000E-01 0.236000E-09 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 647	PD126	0.349810E-01 0.198000E-08 0.803000E-09	0.0 0.553000E-08 0.973000E-09	0.860470E-01 0.297000E-10 0.151000E-07	0.0 0.254000E-06 0.203000E-09	0.0 0.179000E-07 0.304000E-07
NUCLIDE 648	AG126	0.113400E-02 0.863000E-02 0.627000E-05 1 PD126 1.00000	0.0 0.281000E-04 0.887000E-05	0.110210E-02 0.112000E-05 0.415000E-04	0.0 0.291000E-03 0.234000E-05	0.0 0.106000E-03 0.479000E-04
NUCLIDE 649	CD126	0.367280E-00 0.186200E-02 0.235500E-02 1 AG126 1.00000	0.0 0.700900E-02 0.388400E-02	0.559820E-01 0.195600E-02 0.579200E-02	0.0 0.131200E-01 0.149700E-02	0.0 0.305490E-01 0.399200E-02
NUCLIDE 650	IN126	0.552290E-00 0.237840E-01 0.531600E-01 1 CD126 1.00000	0.0 0.109980E-00 0.999600E-01	0.801430E-01 0.177660E-00 0.527160E-01	0.0 0.231260E-01 0.501200E-01	0.0 0.544200E-00 0.254730E-01
NUCLIDE 651	SN126	0.219796E-12 0.502980E-01 0.136200E-04 1 IN126 1.00000	0.0 0.229280E-00 0.276520E-00	0.300000E-00 0.121120E-01 0.911130E-01	0.874420E-01 0.636150E-01 0.165330E-00	0.0 0.121710E-01 0.352390E-01
NUCLIDE 652	SB126M	0.608024E-03 0.518280E-01 0.141790E-00 1 SB126 1.00000	0.0 0.234250E-00 0.290090E-00	0.300000E-00 0.146430E-01 0.920810E-01	0.0 0.637100E-01 0.186750E-00	0.300000E-00 0.125290E-01 0.354020E-01
NUCLIDE 653	SB126	0.646979E-06 0.517830E-01 0.216260E-00 2 SB126M 0.99000	0.0 0.238060E-00 0.300750E-00	0.370000E-01 0.169750E-01 0.921270E-01	0.139270E-00 0.631670E-01 0.204360E-00	0.180000E-01 0.125040E-01 0.352110E-01
NUCLIDE 654	TE126	0.0 0.523060E-01 0.217770E-00 1 SB126M 0.01000	0.0 0.240480E-00 0.303920E-00 1 SB126 1.00000	0.0 0.173290E-01 0.930540E-01 4 I 126 0.56000	0.0 0.638050E-01 0.215510E-00	0.0 0.126350E-01 0.355680E-01
NUCLIDE 655	I 126	0.617118E-06 0.183000E-05 0.563000E-01	0.0 0.181000E-07 0.137000E-06	0.175400E-01 0.350000E-04 0.947000E-09	0.0 0.815000E-11 0.244000E-06	0.0 0.155000E-06 0.537000E-10
NUCLIDE 656	XE126	0.0 0.416000E-06 0.248000E-07 1 I 126 0.44000	0.0 0.797000E-08 0.602000E-07	0.0 0.154000E-04 0.416000E-09	0.0 0.259000E-11 0.108000E-06	0.0 0.684000E-07 0.236000E-10

NUCLIDE 657	AG127	0.370450E-01 0.264000E-08 0.439000E-05	0.0 0.860000E-05 0.279000E-05	0.956080E-01 0.173000E-06 0.662000E-04	0.0 0.983000E-04 0.133000E-05	0.0 0.160000E-04 0.929000E-04
NUCLIDE 658	CD147	0.119100E-01 0.657000E-03 0.309600E-04 1 AG127 1.00000	0.0 0.411600E-02 0.228500E-02	0.806670E-01 0.391000E-03 0.180510E-01	0.0 0.945300E-02 0.166500E-02	0.0 0.103460E-01 0.820900E-02
NUCLIDE 659	IN127	0.303220E-00 0.383540E-01 0.121950E-00 1 CD127 1.00000	0.0 0.114250E-00 0.103000E-00	0.657240E-01 0.100920E-00 0.305580E-00	0.0 0.673860E-01 0.964280E-01	0.0 0.375590E-00 0.547370E-01
NUCLIDE 660	SN127M	0.275058E-02 0.821360E-01 0.224490E-00 1 IN127 0.50000	0.0 0.166800E-00 0.208940E-00	0.310000E-01 0.573960E-00 0.332090E-00	0.106700E-01 0.485990E-01 0.23540E-00	0.490000E-00 0.654060E-00 0.38430E-01
NUCLIDE 661	SN127	0.908212E-04 0.235850E-01 0.224490E-00 1 IN127 0.50000	0.0 0.166800E-00 0.208940E-00	0.310000E-01 0.573960E-00 0.332090E-00	0.106690E-01 0.485990E-01 0.233940E-00	0.490000E-00 0.654060E-00 0.38430E-01
NUCLIDE 662	SB127	0.211119E-05 0.114310E-00 0.324530E-00 1 SN127M 1.00000	0.0 0.369950E-00 0.500390E-00	0.158600E-01 0.202960E-01 0.700410E-00	0.396710E-00 0.983410E-01 0.788960E-00	0.475000E-00 0.150770E-01 0.777510E-01
NUCLIDE 663	TE127M	0.736013E-07 0.440120E-01 0.897650E-01 1 SB127 0.17000	0.0 0.630880E-01 0.858100E-01	0.887000E-01 0.377120E-00 0.119180E-00	0.0 0.189510E-00 0.401570E-00	0.887000E-01 0.257800E-00 0.132180E-01
NUCLIDE 664	TE127	0.207033E-04 0.138710E-00 0.525000E-00 1 SB127 0.83000	0.0 0.369840E-00 0.501190E-00	0.690000E-00 0.209140E-01 0.699680E-00	0.226060E-00 0.106740E-01 0.591050E-00	0.0 0.150870E-01 0.776450E-01
NUCLIDE 665	I 127	0.0 0.139060E-00 0.525720E-00 1 TE127M 0.00800	0.548600E-24 0.370340E-00 0.501470E-00	0.0 0.209870E-01 0.700630E-00	0.0 0.106890E-01 0.591920E-00	0.0 0.151770E-01 0.782140E-01
NUCLIDE 666	XE127M	0.990210E-02 0.0 0.188000E-10	0.0 0.281000E-11 0.321000E-10	0.300000E-00 0.218000E-07 0.0	0.0 0.0 0.106000E-09	0.300000E-00 0.381000E-10 0.0
NUCLIDE 667	XE127	0.220339E-06 0.0 0.373000E-10 2 XE127M 1.00000	0.0 0.536100E-11 0.641000E-10	0.440000E-00 0.437000E-07 0.100000E-11	0.0 0.0 0.212000E-09	0.0 0.762000E-10 0.0
NUCLIDE 668	CS127	0.510550E-04 0.0 0.0	0.0 0.0 0.0	0.210000E-01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 669	PD128	0.618690E-01 0.294000E-08 0.445000E-07	0.0 0.137000E-09 0.220000E-10	0.999340E-01 0.0 0.984000E-05	0.0 0.212000E-07 0.125000E-09	0.0 0.143000E-09 0.154000E-07
NUCLIDE 670	AG128	0.253680E-02 0.208000E-03 0.502000E-04 1 PD128 1.00000	0.0 0.261000E-05 0.735000E-06	0.119980E-02 0.283000E-07 0.499800E-02	0.0 0.767000E-04 0.467000E-05	0.0 0.385000E-05 0.308000E-04
NUCLIDE 671	CD128	0.887510E-00 0.198740E-01 0.732000E-04 1 AG128 1.00000	0.0 0.234000E-02 0.113500E-02	0.662380E-01 0.184000E-03 0.146520E-00	0.0 0.138990E-01 0.149700E-02	0.0 0.481300E-02 0.843600E-02
NUCLIDE 672	IN128	0.170890E-01 0.289610E-00 0.553010E-00 1 CD128 1.00000	0.0 0.114750E-00 0.920700E-01	0.902790E-01 0.380620E-01 0.422110E-00	0.0 0.165980E-00 0.100090E-00	0.0 0.320520E-00 0.956880E-01
NUCLIDE 673	SN128	0.195804E-03 0.518380E-04 0.609740E-00 1 IN128 1.00000	0.0 0.492680E-00 0.574770E-00	0.130000E-01 0.111710E-01 0.493690E-00	0.269700E-00 0.300490E-00 0.675860E-00	0.300000E-00 0.178250E-01 0.163700E-00
NUCLIDE 674	SB128M	0.111081E-02 0.348100E-00 0.695450E-00 1 SN128 0.97000	0.0 0.331340E-00 0.664560E-00	0.430000E-01 0.183030E-01 0.479180E-00	0.106060E-01 0.296160E-00 0.629340E-00	0.170000E-01 0.193180E-01 0.161040E-00
NUCLIDE 675	SB128	0.213934E-04 0.500440E-01 0.130730E-00 1 SN128 0.03000	0.0 0.682200E-01 0.124240E-00	0.430000E-01 0.780260E-00 0.151060E-01	0.0 0.136980E-01 0.195910E-00	0.0 0.312810E-00 0.716100E-02
NUCLIDE 676	TE128	0.0 0.402720E-00 0.843990E-00 1 SB128M 1.00000	0.0 0.601670E-00 0.795800E-00	0.0 0.278270E-01 0.494290E-00	0.0 0.309890E-00 0.404660E-01	0.0 0.225850E-01 0.168220E-00
NUCLIDE 677	I 128	0.461913E-03 0.381000E-04 0.153000E-03 3 I 127 1.00000	0.0 0.221000E-05 0.225000E-04	0.208300E-01 0.124100E-02 0.954000E-11	0.159990E-00 0.188000E-08 0.119000E-03	0.750000E-01 0.204000E-04 0.316000E-08
NUCLIDE 678	XE128	0.0 0.358000E-04 0.144000E-03 1 I 128 0.93700	0.0 0.207000E-05 0.118000E-04	0.0 0.116300E-02 0.894000E-11	0.0 0.738000E-08 0.112000E-03	0.0 0.191000E-04 0.296000E-08

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NUCLIDE 679	IN129	0.791120E-00 0.119640E-00 0.979080E-01	0.0 0.920950E-01 0.341660E-01	0.758740E 01 0.119040E-01 0.173360E 00	0.0 0.188580E 00 0.379940E-01	0.0 0.799760E-01 0.148980E 00
NUCLIDE 680	SN129M	0.577623E-04 0.381710E 00 0.493800E 00 1 IN129 0.30000	0.0 0.328270E 00 0.194320E 00	0.440000E 01 0.216070E 00 0.403150E 00	0.0 0.437840E 00 0.411550E 00	0.0 0.136690E 00 0.179420E 00
NUCLIDE 681	SN129	0.154033E-02 0.180190E 00 0.493800E 00 1 IN129 0.30000	0.0 0.328270E 00 0.194320E 00	0.400000E 01 0.216070E 00 0.403150E 00	0.118060E 01 0.437840E 00 0.411550E 00	0.115000E 01 0.117530E 01 0.179420E 00
NUCLIDE 682	SB129	0.443643E-04 0.645560E 00 0.165020E 01 1 SN129M 1.00000	0.0 0.946990E 00 0.687140E 00 1 SN129 1.00000	0.250000E 01 0.150510E 01 0.100420E 01	0.125190E 00 0.513350E 00 0.162670E 01	0.630000E 00 0.117530E 01 0.384300E 00
NUCLIDE 683	TE129M	0.235265E-04 0.103470E 00 0.283150E 00 1 SB129 0.16000	0.0 0.497720E 00 0.334900E 00	0.638000E 00 0.146990E 01 0.162850E 00	0.770000E-01 0.22030E 00 0.93990E 00	0.391000E 00 0.107530E 01 0.615850E-01
NUCLIDE 684	TE129	0.167427E-03 0.608670E 00 0.158650E 01 1 SB129 0.84000	0.0 0.111940E 01 0.801390E 00 2 TE129M 0.64000	0.148000E 01 0.235750E 01 0.949950E 00	0.509330E 00 0.273470E 01 0.158830E 01	0.940000E-01 0.167710E 01 0.362320E 00
NUCLIDE 685	I 129	0.137372E-14 0.853060E 00 0.168860E 04 1 TE129M 0.36000	0.290130E-24 0.129680E 01 0.922030E 00 1 TE129 1.00000	0.189000E 00 0.289700E 01 0.100860E 01	0.707150E-01 0.853400E 00 0.169450E 01	0.400000E-01 0.213150E 01 0.384490E 00
NUCLIDE 686	XE129M	0.100282E-05 0.524000E-09 0.106000E-07	0.0 0.124000E-08 0.808000E-08	0.236100E 00 0.235000E-03 0.144000E-09	0.0 0.129000E-11 0.432000E-07	0.236100E 00 0.121000E-07 0.0
NUCLIDE 687	XE129	0.0 0.853380E 00 0.168860E 01 1 I 129 1.00000	0.0 0.129680E 01 0.922030E 00 2 XE129M 1.00000	0.0 0.291160E 01 0.100860E 01 4 CS129 1.00000	0.0 0.853400E 00 0.169450E 01	0.0 0.230660E 01 0.384490E 00
NUCLIDE 688	CS129	0.596102E-02 0.0 0.0 4 BA129M 1.00000	0.0 0.0 0.0 4 BA129 1.00000	0.110000E 01 0.147000E-09 0.0 4 BA129 1.00000	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 689	BA129M	0.916861E-04 0.0 0.0	0.0 0.0 0.0	0.245000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 690	BA129	0.875186E-04 0.0 0.0	0.0 0.0 0.0	0.245000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 691	PD130	0.261640E 02 0.408000E-10 0.195000E-09	0.0 0.110000E-11 0.0	0.126300E 02 0.0 0.117000E-10	0.0 0.058000E-09 0.0	0.0 0.0 0.424000E-09
NUCLIDE 692	AG130	0.214010E 03 0.841000E-04 0.126000E-05 1 PD130 1.00000	0.0 0.992000E-07 0.126000E-07	0.150230E 02 0.146000E-09 0.567000E-06	0.0 0.104000E-04 0.99000E-08	0.0 0.697000E-07 0.651000E-05
NUCLIDE 693	CD130	0.185240E 01 0.115500E-02 0.123700E-02 1 AG130 1.00000	0.0 0.406000E-03 0.952000E-04	0.762210E 01 0.442000E-05 0.126000E-02	0.0 0.781400E-02 0.640000E-04	0.0 0.376000E-03 0.473500E-02
NUCLIDE 694	IN130	0.456900E 01 0.115560E 00 0.104080E 00 1 CD130 1.00000	0.0 0.828600E-01 0.348840E-01	0.100140E 02 0.623800E-02 0.143810E 00	0.0 0.225020E 00 0.685500E-01	0.0 0.995470E-01 0.191650E 00
NUCLIDE 695	SN130	0.444325E-02 0.108290E 01 0.111190E 01 1 IN130 1.00000	0.0 0.108860E 01 0.763990E 00	0.200000E 01 0.464800E 00 0.117490E 01	0.0 0.24250E 01 0.108750E 00	0.0 0.164290E 01 0.718940E 00
NUCLIDE 696	SB130M	0.144406E-02 0.423190E 00 0.663490E 00	0.0 0.490750E 00 0.581440E 00	0.500000E 01 0.112720E 01 0.307860E 00	0.0 0.411490E 00 0.85590E 00	0.0 0.939080E 00 0.624680E-01
NUCLIDE 697	SB130	0.312228E-03 0.150610E 01 0.177340E 01 1 SN130 1.00000	0.0 0.157430E 01 0.134540E 01	0.500000E 01 0.159200E 01 0.148260E 01	0.0 0.235400E 01 0.39430E 01	0.0 0.258200E 01 0.781410E 00
NUCLIDE 698	TE130	0.0 0.200470E 01 0.267920E 01 1 SB130M 1.00000	0.0 0.214610E 01 0.207950E 01 1 SB130 1.00000	0.0 0.364720E 01 0.181840E 01	0.0 0.146920E 01 0.432240E 01	0.0 0.370580E 01 0.845890E 00
NUCLIDE 699	I 130M	0.129803E-02 0.139000E-03 0.236000E-03	0.0 0.177000E-03 0.636000E-03	0.150000E 01 0.136710E-01 0.358000E-04	0.0 0.162000E-05 0.68900E-02	0.0 0.560000E-03 0.857000E-06
NUCLIDE 700	I 130	0.155275E-04 0.239000E-03 0.353900E-04 3 I 129 1.00000	0.0 0.266000E-03 0.955000E-03 2 I 130M 0.50000	0.299000E 01 0.208060E-01 0.538000E-04	0.485670E 00 0.443000E-05 0.453400E-02	0.215110E 01 0.840000E-03 0.129000E-05

NUCLIDE 701	XE130	0.0 0.318000E-03 0.473100E-02 1 I 130M 0.50000	0.0 0.354000E-03 0.127300E-02 1 I 130 1.00000	0.0 0.277880E-01 0.717000E-04 1.00000	0.0 0.324000E-05 0.338100E-02	0.0 0.112000E-02 0.171000E-05
NUCLIDE 702	CD131	0.178340E 02 0.128500E-02 0.216000E-04	0.0 0.640000E-04 0.160000E-04	0.120970E 02 0.271000E-06 0.272000E-03	0.0 0.831000E-03 0.472000E-05	0.0 0.634000E-03 0.167500E-02
NUCLIDE 703	IN131	0.179150E 01 0.908740E-01 0.171710E-01 1 CD131 1.00000	0.0 0.324800E-01 0.148320E-01	0.857530E 01 0.983000E-03 0.764220E-01	0.0 0.154950E 00 0.608100E-02	0.0 0.816500E-02 0.156390E 00
NUCLIDE 704	SN131	0.888650E-02 0.982330E 00 0.754390E 00 1 IN131 1.00000	0.0 0.950880E 00 0.747760E 00	0.500000E 01 0.177980E 00 0.132710E 01	0.0 0.189610E 01 0.416430E 00	0.0 0.559200E 00 0.109160E 01
NUCLIDE 705	SB131	0.502281E-03 0.225150E 01 0.299630E 01 1 SN131 1.00000	0.0 0.287310E 01 0.327480E 01	0.320000E 01 0.212540E 01 0.292370E 01	0.101930E 01 0.347450E 01 0.228540E 01	0.692800E 00 0.306890E 01 0.156100E 01
NUCLIDE 706	TE131M	0.641803E-05 0.323560E 00 0.800220E 00 1 SB131 0.06800	0.0 0.363000E 00 0.609260E 00	0.205100E 01 0.107200E 01 0.281840E 00	0.151170E 00 0.367030E 00 0.878210E 00	0.158600E 01 0.688040E 00 0.120000E 00
NUCLIDE 707	TE131	0.462098E-03 0.250240E 01 0.322290E 04 1 SB131 0.93200 2 TE131M 0.18000	0.0 0.291070E 01 0.354810E 01	0.228000E 01 0.296880E 01 0.286040E 02	0.743710E 00 0.336070E 01 0.264430E 01	0.371000E 00 0.346340E 01 0.148570E 01
NUCLIDE 708	I 131	0.994735E-06 0.277420E 01 0.388920E 01 1 TE131M 0.82000 1 TE131 1.00000	0.0 0.321220E 01 0.419600E 01	0.969000E 00 0.405980E 01 0.309260E 01	0.185670E 00 0.366210E 01 0.338440E 01	0.387000E 00 0.405400E 01 0.158370E 01
NUCLIDE 709	XE131M	0.670781E-09 0.166730E-01 0.233390E-01 1 I 131 0.00600	0.0 0.192740E-01 0.251840E-01	0.163980E 00 0.245360E-01 0.185560E-01	0.0 0.219730E-01 0.203230E-01	0.163980E 00 0.243400E-01 0.950200E-02
NUCLIDE 710	XE131	0.0 0.277430E 01 0.388920E 01 1 I 131 0.99400 2 XE131M 1.00000 4 CS131 1.00000	0.463570E-24 0.321220E 01 0.419600E 01	0.0 0.406140E 01 0.309260E 01	0.0 0.366390E 01 0.330320E 01	0.0 0.405400E 01 0.158370E 01
NUCLIDE 711	CS131	0.827919E-06 0.367000E-07 0.380000E-09 4 BA131 1.00000	0.0 0.590000E-10 0.842000E-09	0.0 0.673000E-07 0.502000E-11	0.0 0.0 0.223000E-08	0.0 0.241000E-08 0.0
NUCLIDE 712	BA131M	0.791264E-03 0.149000E-11 0.0	0.0 0.0 0.0	0.180000E 00 0.0 0.0	0.0 0.0 0.0	0.180000E 00 0.0 0.0
NUCLIDE 713	BA131	0.685687E-06 0.298000E-11 0.0 2 BA131M 1.00000	0.0 0.0 0.0	0.118000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 714	CD132	0.106890E 02 0.331000E-02 0.161000E-05	0.0 0.544000E-05 0.105000E-05	0.106480E 02 0.931000E-08 0.301000E-04	0.0 0.663000E-03 0.283000E-06	0.0 0.309000E-05 0.291000E-03
NUCLIDE 715	IN132	0.554070E 02 0.663400E-02 0.338200E-02 1 CD132 1.00000	0.0 0.766600E-02 0.272000E-02	0.130280E 02 0.950000E-04 0.231940E-01	0.0 0.160870E 00 0.105700E-02	0.0 0.522500E-02 0.747320E-01
NUCLIDE 716	SN132	0.115325E-01 0.566310E 00 0.408720E 00 1 IN132 1.00000	0.0 0.571200E 00 0.358280E 00	0.300000E 01 0.472440E-01 0.991500E 00	0.0 0.246130E 01 0.197080E 00	0.0 0.461290E 00 0.120290E 01
NUCLIDE 717	SB132M	0.154033E-01 0.160190E 01 0.166980E 01 1 SN132 0.50000	0.0 0.167090E 01 0.164390E 01	0.300000E 01 0.673360E 00 0.193170E 01	0.0 0.253100E 01 0.120590E 01	0.0 0.153790E 01 0.127120E 01
NUCLIDE 718	SB132	0.372660E-02 0.240290E 01 0.250440E 01 1 SN132 0.50000 2 SB132M 0.50000	0.0 0.250630E 01 0.246590E 01	0.600000E 01 0.101000E 01 0.289750E 01	0.0 0.379650E 01 0.180880E 01	0.0 0.230690E 01 0.190680E 01
NUCLIDE 719	TE132	0.246847E-05 0.410890E 01 0.508800E 01 1 SB132M 0.50000 1 SB132 1.00000	0.0 0.448220E 01 0.526530E 01	0.500000E 00 0.399990E 01 0.457920E 01	0.610770E-01 0.529840E 01 0.441920E 01	0.283000E 00 0.432500E 01 0.267080E 01
NUCLIDE 720	I 132	0.842999E-04 0.412740E 01 0.516290E 04 1 TE132 1.00000	0.0 0.451240E 01 0.538560E 01	0.356000E 01 0.476650E 01 0.459080E 01	0.463760E 00 0.529990E 01 0.474050E 01	0.229690E 01 0.445770E 01 0.267150E 01
NUCLIDE 721	XE132	0.0 0.412740E 01 0.516310E 01 1 I 132 1.00000 3 XE131 1.00000 4 CS132 0.97600	0.0 0.451240E 01 0.538560E 01	0.0 0.477350E 01 0.459080E 01	0.0 0.532770E 01 0.483510E 01	0.0 0.480210E 01 0.267150E 01
NUCLIDE 722	CS132	0.121923E-05 0.550000E-09 0.243000E-07	0.0 0.401000E-08 0.456000E-07	0.206200E 01 0.308000E-05 0.454000E-09	0.454690E-02 0.462000E-11 0.139000E-06	0.690000E 00 0.919000E-08 0.291000E-11

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NUCLIDE 723	HA132	0.0 0.121000E-10 0.536000E-09 1 CS132 0.07200	0.0 0.883000E-10 0.960000E-09	0.0 0.679000E-07 0.956000E-11	0.0 0.0 0.307000E-08	0.0 0.202000E-09 0.0
NUCLIDE 724	IN133	0.133240E 02 0.367000E-05 0.234000E-03	0.0 0.718000E-03 0.459000E-03	0.115810E 02 0.374000E-03 0.494800E-04	0.0 0.265020E-01 0.276000E-04	0.0 0.433000E-03 0.139080E-01
NUCLIDE 725	SN133	0.126027E-01 0.120830E-01 0.963640E-01 1 IN133 1.00000	0.0 0.184730E 00 0.758440E-01	0.843280E 01 0.671900E-02 0.411590E 00	0.0 0.126580E 01 0.394440E-01	0.0 0.132970E 00 0.704920E 00
NUCLIDE 726	SB133	0.427869E-02 0.323520E 01 0.234360E 01 1 SN133 1.00000	0.0 0.297270E 01 0.210520E 01	0.400000E 01 0.627820E 00 0.395930E 01	0.0 0.332940E 01 0.151180E 01	0.0 0.249330E 01 0.307440E 01
NUCLIDE 727	TE133M	0.217971E-03 0.419090E 01 0.366520E 01 1 SB133 0.72000	0.0 0.379550E 01 0.353690E 01	0.266300E 01 0.232640E 01 0.410840E 01	0.620060E 00 0.439740E 01 0.306420E 01	0.126500E 01 0.341910E 01 0.255740E 01
NUCLIDE 728	TE133	0.924196E-03 0.274350E 01 0.311060E 01 1 SB133 0.28000 2 TE133M 0.13000	0.0 0.298100E 01 0.307040E 01	0.270000E 01 0.197360E 01 0.290040E 01	0.620060E 00 0.262420E 01 0.279740E 01	0.107000E 01 0.276660E 01 0.153720E 01
NUCLIDE 729	I 133	0.925677E-05 0.676240E 01 0.683410E 01 1 TE133M 0.87000 1 TE133 1.00000	0.0 0.660030E 01 0.681720E 01	0.180000E 01 0.364380E 01 0.661220E 01	0.439240E 00 0.647140E 01 0.395440E 01	0.581000E 00 0.610360E 01 0.385070E 01
NUCLIDE 730	XE133M	0.354980E-03 0.189360E 00 0.192790E 00 1 I 133 0.02800	0.0 0.185740E 00 0.194300E 00	0.232800E 00 0.179280E 00 0.185360E 00	0.0 0.181210E 00 0.170230E 00	0.232800E 00 0.172180E 00 0.107820E 00
NUCLIDE 731	XE133	0.152230E-05 0.676590E 01 0.683770E 01 1 I 133 0.97200 2 XE133M 1.00000	0.112640E-24 0.660220E 01 0.682440E 01	0.428000E 00 0.568640E 01 0.661260E 01	0.402280E 00 0.647140E 01 0.395870E 01	0.815530E-01 0.610800E 01 0.385070E 01
NUCLIDE 732	CS133	0.0 0.676590E 01 0.683770E 01 1 XE133 1.00000 4 BA133 1.00000	0.439350E-24 0.660220E 01 0.682440E 01	0.0 0.568640E 01 0.661260E 01	0.0 0.647140E 01 0.395870E 01	0.0 0.611510E 01 0.409380E 01
NUCLIDE 733	BA133M	0.494964E-05 0.0 0.0 4 LA133 0.50000	0.0 0.366000E-11 0.517000E-10	0.288000E 00 0.470000E-08 0.146000E-10	0.0 0.0 0.991000E-10	0.288000E 00 0.695000E-11 0.0
NUCLIDE 734	BA133	0.205416E-08 0.0 0.292000E-10 2 BA133M 1.00000 4 LA133 0.50000	0.0 0.732000E-11 0.103000E-09	0.488000E 00 0.940000E-08 0.0	0.0 0.0 0.598000E-09	0.0 0.139000E-10 0.0
NUCLIDE 735	LA133	0.481352E-04 0.0 0.0 0.0	0.0 0.0 0.0	0.220000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 736	CD134	0.165530E 02 0.582000E-08 0.254000E-09	0.0 0.178000E-08 0.140000E-09	0.115740E 02 0.0 0.467000E-07	0.0 0.62000E-06 0.455000E-10	0.0 0.928000E-09 0.471000E-06
NUCLIDE 737	IN134	0.105470E 03 0.710000E-04 0.798000E-05 1 CD134 1.00000	0.0 0.329000E-04 0.513000E-05	0.139430E 02 0.741000E-07 0.172000E-03	0.0 0.452300E-02 0.140000E-05	0.0 0.200000E-04 0.155700E-02
NUCLIDE 738	SN134	0.119500E 01 0.446690E-01 0.115960E-01 1 IN134 1.00000	0.0 0.286230E-01 0.868100E-02	0.701080E 01 0.466000E-03 0.847390E-01	0.0 0.272940E 00 0.251300E-02	0.0 0.202590E-01 0.288500E 00
NUCLIDE 739	SB134	0.613405E-01 0.170090E 01 0.889710E 00 1 SN134 1.00000	0.0 0.136260E 01 0.766410E 00	0.937880E 01 0.142980E 00 0.241530E 01	0.0 0.176180E 01 0.449690E 00	0.0 0.110990E 01 0.267010E 01
NUCLIDE 740	TE134	0.268662E-03 0.638290E 01 0.531240E 01 1 SB134 1.00000	0.0 0.574910E 01 0.511040E 01	0.140000E 01 0.268110E 01 0.717440E 01	0.459390E 00 0.628580E 01 0.403110E 01	0.130220E 00 0.516170E 01 0.501590E 01
NUCLIDE 741	I 134	0.220888E-03 0.717560E 01 0.717920E 01 1 TE134 1.00000	0.0 0.695790E 01 0.718570E 01	0.420000E 01 0.481440E 01 0.798340E 01	0.691920E 00 0.655340E 01 0.604740E 01	0.240680E 01 0.642880E 01 0.515380E 01
NUCLIDE 742	XE134	0.0 0.719390E 01 0.722400E 01 1 I 134 1.00000 3 XE133 1.00000	0.0 0.698100E 01 0.725900E 01	0.0 0.525130E 01 0.794240E 01	0.0 0.752990E 01 0.615390E 01	0.0 0.645670E 01 0.515430E 01
NUCLIDE 743	CS134M	0.663934E-04 0.404000E-05 0.381000E-04	0.0 0.118000E-04 0.722000E-04	0.138000E 00 0.110300E-02 0.258000E-05	0.0 0.708000E-07 0.550000E-03	0.138000E 00 0.165000E-04 0.495000E-07
NUCLIDE 744	CS134	0.106697E-07 0.143000E-04 0.762000E-04 3 CS133 1.00000 2 CS134M 1.00000	0.489590E-24 0.235000E-04 0.144000E-03	0.205900E 01 0.220500E-02 0.516000E-05	0.160970E 00 0.402000E-06 0.310000E-03	0.156700E 01 0.330000E-04 0.902000E-07

NUCLIDE 745	BA134	0.0 0.143000E-04 0.762000E-04 1 CS134 1.00000	0.0 0.235000E-04 0.145000E-03	0.0 0.220600E-02 0.516000E-03	0.0 0.102000E-06 0.310000E-03	0.0 0.330000E-04 0.902000E-07
NUCLIDE 746	SN135	0.326950E 01 0.127390E-01 0.464000E-03	0.0 0.237100E-02 0.346000E-03	0.938360E 01 0.162000E-04 0.401390E-01	0.0 0.691330E-01 0.124000E-03	0.0 0.178500E-02 0.469240E-01
NUCLIDE 747	SB135	0.407734E 00 0.551720E 00 0.115980E 00 1 SN135 1.00000	0.0 0.360910E 00 0.157880E 00	0.700000E 01 0.169360E-01 0.822720E 00	0.0 0.182370E 01 0.510720E-01	0.0 0.287920E 00 0.141360E 01
NUCLIDE 748	TE135	0.630134E-01 0.338550E 01 0.184980E 01 1 SB135 1.00000	0.0 0.372840E 01 0.281250E 01	0.600000E 01 0.953910E 00 0.543620E 01	0.0 0.214990E 01 0.124210E 01	0.0 0.312060E 01 0.434570E 01
NUCLIDE 749	I 135	0.287374E-04 0.638600E 01 0.603750E 01 1 TE135 1.00000	0.180700E-26 0.629890E 01 0.649040E 01	0.280000E 01 0.452740E 01 0.704940E 01	0.322180E 00 0.567330E 01 0.475210E 01	0.167500E 01 0.539170E 01 0.487050E 01
NUCLIDE 750	XE135M	0.735825E-03 0.105020E 01 0.106160E 01 1 I 135 0.14800	0.0 0.100840E 01 0.190240E 01	0.527000E 00 0.123940E 01 0.107190E 01	0.0 0.852110E 00 0.954570E 00	0.527000E 00 0.877990E 00 0.725630E 00
NUCLIDE 751	XE135	0.210197E-04 0.672330E 01 0.721980E 01 1 I 135 0.85200	0.180090E-25 0.645120E 01 0.744670E 01 2 XE135M 1.00000	0.116000E 01 0.566640E 01 0.729480E 01	0.307570E 00 0.274770E 01 0.604150E 01	0.260800E 00 0.586740E 01 0.487490E 01
NUCLIDE 752	CS135M	0.217971E-03 0.139600E-02 0.894000E-03	0.0 0.264000E-03 0.122400E-02	0.162100E 01 0.128900E-01 0.513000E-04	0.0 0.177000E-03 0.236900E-02	0.162100E 01 0.307000E-03 0.146000E-03
NUCLIDE 753	CS135	0.955633E-14 0.672610E 01 0.722160E 01 1 XE135 1.00000	0.225350E-24 0.645170E 01 0.744910E 01 2 CS135M 1.00000	0.210000E 00 0.549210E 01 0.729490E 01 3 CS134 1.00000	0.388270E-01 0.866940E 01 0.809810E 01 1.00000	0.0 0.588630E 01 0.507360E 01
NUCLIDE 754	BA135M	0.670874E-05 0.177000E-05 0.263000E-06	0.0 0.447000E-07 0.406000E-06	0.268000E 00 0.127000E-04 0.498000E-08	0.0 0.382000E-10 0.106000E-03	0.268000E 00 0.471000E-07 0.431000E-10
NUCLIDE 755	BA135	0.0 0.672610E 01 0.722160E 01 1 CS135 1.00000	0.0 0.645170E 01 0.744910E 01 2 BA135M 1.00000	0.0 0.569220E 01 0.729490E 01 4 LA135 1.00000	0.0 0.866940E 01 0.809810E 01 1.00000	0.0 0.588630E 01 0.507360E 01
NUCLIDE 756	LA135	0.987389E-05 0.443000E-09 0.680000E-11 4 CE135 1.00000	0.0 0.0 0.123000E-10	0.130000E 01 0.182000E-08 0.0	0.0 0.0 0.990000E-10	0.0 0.0 0.0
NUCLIDE 757	CE135	0.108780E-04 0.0 0.0	0.0 0.0 0.0	0.210000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 758	CD136	0.249400E 02 0.0 0.0	0.0 0.0 0.0	0.124770E 02 0.0 0.168000E-11	0.0 0.339000E-09 0.0	0.0 0.0 0.128000E-09
NUCLIDE 759	IN136	0.189830E 03 0.303000E-07 0.113000E-08 1 CD136 1.00000	0.0 0.188000E-07 0.974000E-09	0.148340E 02 0.739000E-11 0.163000E-06	0.0 0.468000E-05 0.129000E-07	0.0 0.140000E-07 0.440000E-05
NUCLIDE 760	SN136	0.233060E 01 0.139000E-03 0.173000E-04 1 IN136 1.00000	0.0 0.171000E-03 0.103000E-04	0.796340E 01 0.517000E-06 0.903000E-03	0.0 0.228550E-01 0.720000E-04	0.0 0.136000E-03 0.700200E-02
NUCLIDE 761	SB136	0.607780E 01 0.374840E-01 0.126010E-01 1 SN136 1.00000	0.0 0.746820E-01 0.865600E-02	0.103200E 02 0.160800E-02 0.218920E 00	0.0 0.905470E 00 0.12950E-01	0.0 0.630710E-01 0.584090E 00
NUCLIDE 762	TE136	0.210045E-01 0.722690E 00 0.540000E 00 1 SB136 1.00000	0.0 0.191450E 01 0.401760E 00	0.513060E 01 0.251930E 00 0.334940E 01	0.0 0.207560E 01 0.388500E 00	0.0 0.170480E 01 0.372690E 01
NUCLIDE 763	I 136	0.815467E-04 0.348950E 01 0.191320E 01 1 TE136 1.00000	0.0 0.231710E 01 0.165880E 01 3 I 135 1.00000	0.700000E 01 0.266570E 01 0.688850E 01	0.187580E 01 0.870890E 01 0.169990E 01	0.267720E 01 0.489480E 01 0.515840E 01
NUCLIDE 764	XE136	0.0 0.612210E 01 0.633280E 01 1 I 136 1.00000	0.0 0.583880E 01 0.88320E 01 3 XE135 1.00000	0.0 0.459380E 01 0.721010E 01	0.0 0.875500E 01 0.88880E 01	0.0 0.540990E 01 0.520350E 01
NUCLIDE 765	CS136	0.617118E-06 0.677700E-02 0.100520E 00 3 CS135 1.00000	0.0 0.517400E-02 0.150510E 00	0.220300E 01 0.261940E 00 0.178500E-02	0.106240E 00 0.14590E-01 0.0	0.184600E 01 0.329090E-01 0.455200E-02
NUCLIDE 766	BA136	0.0 0.699000E-02 0.100600E 00 1 CS136 1.00000	0.0 0.517600E-02 0.150660E 00	0.0 0.262870E 00 0.178600E-02	0.0 0.114600E-01 0.20000E-01	0.0 0.329270E-01 0.453200E-02

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NUCLIDE 767	SN137	0.613180E 01 0.522000E-03 0.132000E-03	0.0 0.682000E-03 0.794000E-06	0.103100E 02 0.103000E-07 0.466000E-04	0.0 0.105200E-02 0.211000E-06	0.0 0.605000E-03 0.535000E-03
NUCLIDE 768	SB137	0.229980E 01 0.624420E-01 0.332800E-02 1 SN137 1.00000	0.0 0.991800E-02 0.232400E-02	0.890200E 01 0.109000E-03 0.349090E-01	0.0 0.220370E 00 0.747000E-03	0.0 0.878800E-02 0.141800E 00
NUCLIDE 769	TE137	0.728110E 00 0.557810E 00 0.425910E 00 1 SB137 1.00000	0.0 0.760100E 00 0.343220E 00	0.749360E 01 0.555330E-01 0.145200E 01	0.0 0.497590E 01 0.210370E 00	0.0 0.673560E 00 0.234020E 01
NUCLIDE 770	I 137	0.310828E-01 0.383960E 01 0.384800E 01 1 TE137 1.00000	0.0 0.454370E 01 0.346210E 01	0.550000E 01 0.162580E 01 0.555100E 01	0.0 0.273140E 01 0.298570E 01	0.0 0.402630E 01 0.501560E 01
NUCLIDE 771	XE137	0.302420E-02 0.593900E 01 0.605190E 01 1 I 137 1.00000	0.0 0.614030E 01 0.578490E 01	0.400000E 01 0.491220E 01 0.654710E 01	0.157250E 01 0.595070E 01 0.590060E 01	0.304850E 00 0.544120E 01 0.527880E 01
NUCLIDE 772	CS137	0.727800E-09 0.622790E 01 0.653380E 01 1 XE137 1.00000	0.184040E-25 0.618940E 01 0.662500E 01	0.557000E 00 0.348550E 01 0.656360E 01	0.176800E 00 0.595180E 01 0.655920E 01	0.0 0.548470E 01 0.528040E 01
NUCLIDE 773	BA137M	0.452860E-02 0.482390E 01 0.619930E 01 1 CS137 0.93500	0.0 0.578710E 01 0.619460E 01	0.661600E 00 0.513190E 01 0.613700E 01	0.0 0.556490E 01 0.613360E 01	0.661600E 00 0.512820E 01 0.497160E 01
NUCLIDE 774	BA137	0.0 0.622930E 01 0.653420E 01 1 CS137 0.06500 2 BA137M 1.00000 4 LA137 1.00000	0.0 0.618950E 01 0.662550E 01	0.0 0.549140E 01 0.656370E 01	0.0 0.595180E 01 0.656100E 01	0.0 0.548480E 01 0.543460E 01
NUCLIDE 775	LA137	0.366326E-12 0.283000E-05 0.491000E-07 4 CE137M 0.00600 4 CE137 1.00000	0.0 0.673000E-08 0.880000E-07	0.500000E 00 0.386000E-05 0.592000E-09	0.0 0.268000E-11 0.337000E-06	0.0 0.596000E-08 0.685000E-11
NUCLIDE 776	CE137M	0.566297E-03 0.331000E-09 0.0	0.0 0.0 0.0	0.255000E 00 0.528000E-10 0.0	0.0 0.0 0.192000E-11	0.255000E 00 0.0 0.0
NUCLIDE 777	CE137	0.213934E-04 0.661000E-09 0.0 2 CE137M 0.99400	0.0 0.0 0.0	0.120000E 01 0.105000E-09 0.0	0.0 0.0 0.384000E-11	0.0 0.0 0.0
NUCLIDE 778	SN138	0.415520E 01 0.148000E-05 0.247000E-07	0.0 0.202000E-06 0.106000E-07	0.883200E 01 0.136000E-09 0.488000E-03	0.0 0.681000E-04 0.354000E-08	0.0 0.151000E-06 0.359000E-04
NUCLIDE 779	SB138	0.136320E 02 0.231900E-02 0.203000E-03 1 SN138 1.00000	0.0 0.935000E-03 0.103000E-03	0.112370E 02 0.467000E-05 0.430300E-02	0.0 0.426040E-01 0.228000E-04	0.0 0.678000E-03 0.303240E-01
NUCLIDE 780	TE138	0.571880E 00 0.260570E 00 0.820980E-01 1 SB138 1.00000	0.0 0.213740E 00 0.477840E-01	0.604150E 01 0.744100E-02 0.505300E 00	0.0 0.150540E 01 0.372710E-01	0.0 0.150530E 00 0.40750E 01
NUCLIDE 781	I 138	0.115525E 00 0.227530E 01 0.194480E 01 1 TE138 1.00000	0.0 0.311050E 01 0.129160E 01	0.780000E 01 0.620710E 00 0.422460E 01	0.0 0.214810E 01 0.146790E 01	0.0 0.213640E 01 0.581100E 01
NUCLIDE 782	XE138	0.813553E-03 0.623500E 01 0.514380E 01 1 I 138 1.00000	0.0 0.622840E 01 0.370860E 01	0.280000E 01 0.396060E 01 0.649950E 01	0.463470E 00 0.590820E 01 0.540440E 01	0.400000E 00 0.422200E 01 0.699500E 01
NUCLIDE 783	CS138	0.358772E-03 0.674470E 01 0.564800E 01 1 XE138 1.00000 3 CS137 1.00000	0.0 0.649710E 01 0.491510E 01	0.483000E 01 0.528630E 01 0.659570E 01	0.110100E 01 0.591880E 01 0.655460E 01	0.215300E 01 0.445240E 01 0.701700E 01
NUCLIDE 784	BA138	0.0 0.674770E 01 0.569120E 01 1 CS138 1.00000 4 LA138 0.70000	0.0 0.649850E 01 0.491930E 01	0.0 0.533100E 01 0.659590E 01	0.0 0.591880E 01 0.637280E 01	0.0 0.450070E 01 0.701700E 01
NUCLIDE 785	LA138	0.199814E-18 0.172000E-05 0.208000E-03	0.0 0.365000E-06 0.223000E-03	0.154600E 01 0.884000E-04 0.334000E-07	0.0 0.264000E-09 0.122000E-04	0.0 0.233000E-06 0.101000E-08
NUCLIDE 786	CE138	0.0 0.517000E-06 0.625000E-06 1 LA138 0.30000	0.0 0.110000E-06 0.670000E-06	0.0 0.265000E-04 0.100000E-07	0.0 0.791000E-10 0.567000E-05	0.0 0.699000E-07 0.302000E-09
NUCLIDE 787	SB139	0.445300E 01 0.150300E-02 0.767000E-03	0.0 0.455000E-04 0.648000E-03	0.982150E 01 0.219000E-07 0.232000E-03	0.0 0.466200E-02 0.558000E-06	0.0 0.412000E-04 0.209700E-02
NUCLIDE 788	TE139	0.159700E 01 0.659410E-01 0.104990E-01 1 SB139 1.00000	0.0 0.339200E-01 0.984000E-02	0.842900E 01 0.496000E-03 0.902010E-01	0.0 0.474780E 00 0.172600E-02	0.0 0.282080E-01 0.358260E 00

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NUCLIDE 789	I 139	0.346574E 00 0.124690E 01 0.760610E 00 1 TE139 1.00000	0.0 0.141210E 01 0.620870E 00	0.700000E 01 0.131280E 00 0.208190E 01	0.0 0.354060E 01 0.278330E 00	0.0 0.108120E 01 0.366620E 01
NUCLIDE 790	XE139	0.173287E-01 0.496230E 01 0.435550E 01 1 I 139 1.00000	0.0 0.539850E 01 0.523780E 01	0.460000E 01 0.216670E 01 0.541810E 01	0.189900E 01 0.319820E 01 0.301660E 01	0.220000E 00 0.390700E 01 0.633440E 01
NUCLIDE 791	CS139	0.124220E-02 0.650880E 01 0.579890E 01 1 XE139 1.00000	0.0 0.636730E 01 0.678680E 01	0.400000E 01 0.477640E 01 0.587930E 01	0.126310E 01 0.326530E 01 0.367920E 01	0.955000E 00 0.468770E 01 0.650130E 01
NUCLIDE 792	BA139	0.138852E-03 0.637970E 01 0.584090E 01 1 CS139 1.00000	0.0 0.638330E 01 0.683830E 01	0.229000E 01 0.503330E 01 0.588340E 01	0.582910E 00 0.326550E 01 0.609250E 01	0.519700E-01 0.492050E 01 0.650190E 01
NUCLIDE 793	LA139	0.0 0.658870E 01 0.584090E 01 1 BA139 1.00000	0.563960E-25 0.638330E 01 0.683830E 01 4 CE139 1.00000	0.0 0.503330E 01 0.588340E 01	0.0 0.331670E 01 0.609310E 01	0.0 0.492060E 01 0.652930E 01
NUCLIDE 794	CE139M	0.123776E-01 0.223000E-05 0.259000E-08	0.0 0.288000E-09 0.446000E-08	0.746000E 00 0.234000E-06 0.189000E-10	0.0 0.0 0.341000E-07	0.746000E 00 0.168000E-09 0.0
NUCLIDE 795	CE139	0.583457E-07 0.446000E-05 0.510000E-08 2 CE139M 1.00000	0.0 0.576000E-09 0.892000E-08 4 PR139 1.00000	0.270000E 00 0.468000E-06 0.379000E-10	0.0 0.0 0.108000E-06	0.0 0.336000E-09 0.0
NUCLIDE 796	PR139	0.436601E-04 0.233000E-08 0.0	0.0 0.0 0.0	0.211000E 01 0.644000E-11 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 797	TE140	0.121090E 01 0.177590E-01 0.193000E-03	0.0 0.146200E-02 0.139000E-03	0.702850E 01 0.800000E-05 0.132020E-01	0.0 0.129030E 00 0.377000E-04	0.0 0.322400E-02 0.336990E-01
NUCLIDE 798	I 140	0.462098E 00 0.636820E 00 0.730280E-04 1 TE140 1.00000	0.0 0.264780E 00 0.628040E-01	0.936250E 01 0.999500E-02 0.855640E 00	0.0 0.42710E 01 0.295730E-01	0.0 0.337640E 00 0.156600E 01
NUCLIDE 799	XE140	0.509667E-01 0.883350E 01 0.173140E 01 1 I 140 1.00000	0.0 0.316200E 01 0.165320E 01	0.370000E 01 0.665620E 00 0.450220E 01	0.151240E 01 0.358930E 01 0.135190E 01	0.130000E 00 0.285560E 01 0.646540E 01
NUCLIDE 800	CS140	0.108644E-01 0.583450E 01 0.504510E 01 1 XE140 1.00000	0.0 0.572490E 01 0.466810E 01	0.610000E 01 0.357660E 01 0.282740E 01	0.0 0.394410E 01 0.307680E 01	0.0 0.445840E 01 0.778480E 01
NUCLIDE 801	BA140	0.626761E-06 0.630030E 01 0.548880E 01 1 CS140 1.00000	0.206650E-24 0.590300E 01 0.514250E 01	0.105000E 01 0.466130E 01 0.588190E 01	0.272290E 00 0.394660E 01 0.612930E 01	0.246000E 00 0.453410E 01 0.780730E 01
NUCLIDE 802	LA140	0.478600E-05 0.632190E 01 0.549280E 01 1 BA140 1.00000	0.0 0.590400E 01 0.515010E 01 3 LA139 1.00000	0.376900E 01 0.468950E 01 0.586190E 01	0.438370E 00 0.394660E 01 0.615300E 01	0.255780E 01 0.456960E 01 0.780730E 01
NUCLIDE 803	CE140	0.0 0.632200E 01 0.350280E 01 1 LA140 1.00000	0.0 0.603020E 01 0.590470E 01 4 PR140 1.00000	0.0 0.468960E 01 0.596190E 01	0.0 0.394660E 01 0.641820E 01	0.0 0.456960E 01 0.780730E 01
NUCLIDE 804	PR140	0.340780E-02 0.525000E-08 0.371000E-10 4 ND140 1.00000	0.0 0.142000E-11 0.659000E-10	0.334000E 01 0.293000E-08 0.0	0.0 0.0 0.174000E-08	0.0 0.0 0.0
NUCLIDE 805	ND140	0.238057E-05 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 806	I 141	0.165220E 01 0.435470E-01 0.425600E-02	0.0 0.271050E-01 0.350200E-02	0.847190E 01 0.801000E-03 0.981920E-01	0.0 0.471140E 00 0.108200E-02	0.0 0.574240E-01 0.238640E 00
NUCLIDE 807	XE141	0.402993E 00 0.126370E 01 0.458890E 00 1 I 141 1.00000	0.0 0.122540E 01 0.435680E 00	0.620000E 01 0.231620E 00 0.194420E 01	0.0 0.440500E 01 0.254930E 00	0.0 0.116670E 01 0.348690E 01
NUCLIDE 808	CS141	0.280626E-01 0.436720E 01 0.370980E 01 1 XE141 1.00000	0.0 0.496210E 01 0.381590E 01	0.500000E 01 0.220570E 01 0.461250E 01	0.0 0.342620E 01 0.293160E 01	0.0 0.397290E 01 0.698320E 01
NUCLIDE 809	BA141	0.631282E-03 0.582450E 01 0.556890E 01 1 CS141 1.00000	0.0 0.594190E 01 0.598730E 01 3 BA140 1.00000	0.300000E 01 0.34980E 01 0.492800E 01	0.110000E 01 0.344740E 01 0.367280E 01	0.300000E 00 0.430740E 01 0.728460E 01
NUCLIDE 810	LA141	0.497522E-04 0.586730E 01 0.564840E 01 1 BA141 1.00000	0.0 0.595980E 01 0.609380E 01	0.243000E 01 0.458170E 01 0.493030E 01	0.460330E 00 0.344750E 01 0.391750E 01	0.274000E-01 0.431200E 01 0.728620E 01

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NUCLIDE 811	CE141	0.246620E-06 0.586740E 01 0.586740E 01 1 LA141 1.00000	0.131610E-24 0.295960E 01 0.609410E 01	0.581000E 00 0.458330E 01 0.497340E 01	0.147510E 00 0.244750E 01 0.291870E 01	0.101500E 00 0.432250E 01 0.728620E 01
NUCLIDE 812	PR141	0.0 0.586740E 01 0.596140E 01 1 CE141 1.00000	0.157320E-24 0.595960E 01 0.609410E 01 4 ND141 1.00000	0.0 0.458330E 01 0.497340E 01	0.0 0.244750E 01 0.291870E 01	0.0 0.432250E 01 0.731530E 01
NUCLIDE 813	ND141M	0.111798E-01 0.0 0.0	0.0 0.0 0.0	0.755000E 00 0.385000E-11 0.0	0.0 0.0 0.289000E-11	0.755000E 00 0.0 0.0
NUCLIDE 814	ND141	0.789102E-04 0.0 0.0 2 ND141M 1.00000	0.0 0.0 0.0 4 FM141 1.00000	0.180000E 01 0.770000E-11 0.0	0.0 0.0 0.279000E-11	0.0 0.0 0.0
NUCLIDE 815	PM141	0.552749E-03 0.0 0.0	0.0 0.0 0.0	0.360000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 816	TE142	0.224370E 01 0.530000E-08 0.146000E-07	0.0 0.215000E-06 0.593000E-08	0.790720E 01 0.129000E-09 0.307000E-03	0.0 0.288000E-03 0.223000E-08	0.0 0.286000E-05 0.209000E-04
NUCLIDE 817	I 142	0.587070E 01 0.164500E-02 0.150000E-03 1 TE142 1.00000	0.0 0.934000E-03 0.713000E-04	0.102820E 02 0.416000E-03 0.535600E-02	0.0 0.242580E 00 0.229000E-04	0.0 0.484000E-02 0.224470E-01
NUCLIDE 818	XE142	0.568153E 00 0.365160E 00 0.741570E-01 1 I 142 1.00000	0.0 0.201480E 00 0.407790E-01	0.529430E 01 0.623000E-02 0.486500E 00	0.0 0.218150E 01 0.286200E-01	0.0 0.427310E 00 0.130000E 01
NUCLIDE 819	CS142	0.407734E 00 0.290270E 01 0.161960E 01 1 XE142 1.00000	0.0 0.278910E 01 0.132880E 01	0.760000E 01 0.491160E 00 0.331670E 01	0.0 0.248650E 01 0.444780E 01	0.0 0.276630E 01 0.629700E 01
NUCLIDE 820	BA142	0.107967E-02 0.531750E 01 0.448440E 01 1 CS142 1.00000	0.0 0.544100E 01 0.430600E 01	0.220000E 01 0.300020E 01 0.470270E 01	0.494320E 00 0.269600E 01 0.282600E 01	0.850000E 00 0.387850E 01 0.794000E 01
NUCLIDE 821	LA142	0.125027E-03 0.542270E 01 0.497070E 01 1 BA142 1.00000	0.0 0.565770E 01 0.488430E 01	0.451000E 01 0.404570E 01 0.473300E 01	0.839010E 00 0.469710E 01 0.534880E 01	0.218900E 01 0.391780E 01 0.797820E 01
NUCLIDE 822	CE142	0.439591E-24 0.595730E 01 0.497370E 01 1 LA142 1.00000	0.0 0.565880E 01 0.488870E 01 3 CE141 1.00000	0.0 0.412000E 01 0.475310E 01	0.0 0.469710E 01 0.537920E 01	0.0 0.391790E 01 0.797830E 01
NUCLIDE 823	PR142M	0.791264E-03 0.497000E-07 0.146000E-05	0.0 0.131000E-06 0.247000E-05	0.0 0.300000E-04 0.496000E-08	0.0 0.01000E-11 0.497000E-04	0.0 0.366000E-08 0.143000E-08
NUCLIDE 824	PR142	0.100282E-04 0.993000E-07 0.291000E-05 3 PR141 1.00000	0.0 0.261000E-06 0.493000E-05 2 PR142M 1.00000	0.216000E 01 0.600000E-04 0.993000E-08	0.223650E 00 0.403000E-11 0.993000E-04	0.580900E-01 0.732000E-08 0.880000E-08
NUCLIDE 825	ND142	0.0 0.993000E-07 0.291000E-05 1 PR142 1.00000	0.0 0.261000E-06 0.493000E-05	0.0 0.601000E-04 0.993000E-08	0.0 0.403000E-11 0.993000E-04	0.0 0.732000E-08 0.880000E-08
NUCLIDE 826	XE143	0.722028E 00 0.472570E-01 0.107440E-01	0.0 0.212440E-01 0.218400E-02	0.800000E 01 0.239000E-03 0.562170E-01	0.0 0.528300E 00 0.598500E-02	0.0 0.303910E-01 0.214910E 00
NUCLIDE 827	CS143	0.407734E 00 0.146400E 01 0.515940E 00 1 XE143 1.00000	0.0 0.107220E 01 0.287850E 00	0.620000E 01 0.779360E-01 0.144580E 01	0.0 0.247880E 01 0.236070E 00	0.0 0.126110E 01 0.306300E 01
NUCLIDE 828	BA143	0.577623E-01 0.489520E 01 0.294690E 01 1 CS143 1.00000	0.0 0.469570E 01 0.264150E 01	0.350000E 01 0.153870E 01 0.401560E 01	0.0 0.250380E 01 0.207470E 01	0.0 0.344550E 01 0.605430E 01
NUCLIDE 829	LA143	0.825175E-03 0.582470E 01 0.430890E 01 1 BA143 1.00000	0.0 0.574660E 01 0.423020E 01	0.330000E 01 0.365000E 01 0.440960E 01	0.423340E 01 0.453250E 01 0.271440E 01	0.310000E 00 0.377190E 01 0.630540E 01
NUCLIDE 830	CE143	0.583457E-05 0.588720E 01 0.437110E 01 1 LA143 1.00000	0.0 0.576790E 01 0.431240E 01	0.144000E 01 0.389960E 01 0.441350E 01	0.281330E 00 0.453250E 01 0.295150E 01	0.361000E 00 0.377510E 01 0.630660E 01
NUCLIDE 831	PR143	0.590761E-06 0.592200E 01 0.437150E 01 1 CE143 1.00000	0.478240E-24 0.576790E 01 0.431270E 01	0.933000E 00 0.390140E 01 0.441350E 01	0.218430E 00 0.453250E 01 0.295350E 01	0.0 0.377510E 01 0.686680E 01
NUCLIDE 832	ND143	0.0 0.599330E 01 0.445870E 01 1 PR143 1.00000	0.479450E-24 0.576790E 01 0.431270E 01 4 FM143 1.00000	0.0 0.390140E 01 0.441350E 01	0.0 0.453250E 01 0.295350E 01	0.0 0.377510E 01 0.686680E 01

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NUCLIDE 833	PM143	0.302737E-07	0.0	0.110000E 01	0.0	0.0
		0.0	0.0	0.119000E-10	0.0	0.0
		0.0	0.0	0.0	0.19000E-11	0.0
		4 SM143 1.00000				
NUCLIDE 834	SM143M	0.110023E-01	0.0	0.746000E 00	0.0	0.748000E 00
		0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
NUCLIDE 835	SM143	0.130832E-02	0.0	0.330000E 01	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
		2 SM143M 1.00000				
NUCLIDE 836	XE144	0.770164E-01	0.0	0.600000E 01	0.0	0.0
		0.620600E-02	0.917000E-03	0.394000E-05	0.107270E 00	0.291200E-02
		0.990000E-03	0.665000E-04	0.381900E-02	0.119900E-02	0.307300E-01
NUCLIDE 837	CS144	0.630134E 00	0.0	0.600000E 01	0.0	0.0
		0.299780E 00	0.192230E 00	0.274000E-02	0.191730E 01	0.305140E 00
		0.113490E 00	0.347920E-01	0.377930E 00	0.104100E 00	0.146780E 01
		1 XE144 1.00000				
NUCLIDE 838	BA144	0.582477E-01	0.0	0.400000E 01	0.0	0.0
		0.285640E 01	0.259590E 01	0.438680E 00	0.428850E 01	0.232770E 01
		0.146060E 01	0.104620E 01	0.275560E 01	0.138090E 01	0.617960E 01
		1 CS144 1.00000				
NUCLIDE 839	LA144	0.169060E-01	0.0	0.560000E 01	0.0	0.0
		0.531580E 01	0.499940E 01	0.262230E 01	0.454090E 01	0.344860E 01
		0.345410E 01	0.321600E 01	0.400980E 01	0.394240E 01	0.747900E 01
		1 BA144 1.00000				
NUCLIDE 840	CE144	0.282086E-07	0.716540E-25	0.320000E 00	0.189310E-01	0.460000E-01
		0.544560E 01	0.519070E 01	0.354380E 01	0.454260E 01	0.349330E 01
		0.377140E 01	0.360430E 01	0.405920E 01	0.467020E 01	0.750380E 01
		1 LA144 1.00000				
NUCLIDE 841	PR144M	0.160451E-02	0.0	0.0	0.0	0.0
		0.185000E-02	0.467000E-03	0.129890E-01	0.466000E-06	0.514000E-04
		0.160400E-04	0.228800E-02	0.540000E-04	0.140300E-02	0.122000E-04
NUCLIDE 842	PR144	0.667772E-03	0.0	0.298900E 01	0.121630E 01	0.308750E-01
		0.544920E 01	0.519170E 01	0.356980E 01	0.454260E 01	0.349330E 01
		0.377460E 01	0.360890E 01	0.405930E 01	0.468900E 01	0.750380E 01
		1 CE144 1.00000 3 PM143 1.00000 2 PR144M 1.00000				
NUCLIDE 843	ND144	0.104665E-22	0.142940E-24	0.190000E 01	0.190000E 01	0.0
		0.544930E 01	0.520330E 01	0.356990E 01	0.454260E 01	0.349330E 01
		0.377460E 01	0.360890E 01	0.405930E 01	0.468900E 01	0.750380E 01
		1 PR144 1.00000 3 ND143 1.00000 4 PM144 1.00000				
NUCLIDE 844	PM144	0.221007E-07	0.0	0.230000E 01	0.0	0.0
		0.0	0.234000E-11	0.388000E-08	0.0	0.0
		0.406000E-10	0.786000E-10	0.0	0.814000E-09	0.0
NUCLIDE 845	SM144	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
NUCLIDE 846	XE145	0.157270E 01	0.0	0.840960E 01	0.0	0.0
		0.305000E-04	0.196000E-04	0.373000E-07	0.103000E-02	0.715000E-04
		0.178000E-05	0.113000E-05	0.123000E-05	0.433000E-06	0.142000E-02
NUCLIDE 847	CS145	0.465470E 00	0.0	0.700800E 01	0.0	0.0
		0.281680E-01	0.165450E-01	0.227000E-03	0.200690E 00	0.332020E-01
		0.320200E-04	0.236300E-02	0.478990E-01	0.845000E-03	0.249910E 00
		1 XE145 1.00000				
NUCLIDE 848	BA145	0.105340E 00	0.0	0.561160E 01	0.0	0.0
		0.897230E 00	0.767940E 00	0.676930E-01	0.480670E 01	0.897440E 00
		0.299200E 00	0.254620E 00	0.110420E 01	0.453070E 00	0.291250E 01
		1 CS145 1.00000				
NUCLIDE 849	LA145	0.159580E-01	0.0	0.422900E 01	0.0	0.0
		0.336590E 01	0.317050E 01	0.123710E 01	0.270980E 01	0.257680E 01
		0.208370E 01	0.198710E 01	0.287410E 01	0.482790E 01	0.524040E 01
		1 BA145 1.00000				
NUCLIDE 850	CE145	0.398360E-02	0.0	0.260000E 01	0.777640E 00	0.600000E 00
		0.395080E 01	0.381650E 01	0.280730E 01	0.373540E 01	0.284790E 01
		0.298260E 01	0.297120E 01	0.311880E 01	0.330930E 01	0.536620E 01
		1 LA145 1.00000 3 CE144 1.00000				
NUCLIDE 851	PR145	0.321975E-04	0.0	0.180000E 01	0.662570E 00	0.500000E-01
		0.395350E 01	0.382850E 01	0.297890E 01	0.373540E 01	0.285080E 01
		0.301400E 01	0.301460E 01	0.312090E 01	0.341240E 01	0.536690E 01
		1 CE145 1.00000				
NUCLIDE 852	ND145	0.0	0.409500E-24	0.0	0.0	0.0
		0.395350E 01	0.382850E 01	0.298000E 01	0.373540E 01	0.285080E 01
		0.301460E 01	0.301550E 01	0.312090E 01	0.341290E 01	0.536690E 01
		1 PR145 1.00000 3 ND144 1.00000 4 PM145 1.00000				
NUCLIDE 853	PM145	0.122109E-08	0.0	0.140000E 00	0.0	0.0
		0.902000E-10	0.549000E-09	0.399000E-06	0.0	0.383000E-10
		0.702000E-08	0.123000E-07	0.201000E-10	0.468000E-07	0.110000E-11
		4 SM145 1.00000				
NUCLIDE 854	SM145	0.235957E-07	0.0	0.650000E 00	0.0	0.0
		0.0	0.0	0.623000E-11	0.0	0.0
		0.0	0.0	0.0	0.0	0.0

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NUCLIDE 855	XE146	0.123940E-01 0.366000E-06 0.167000E-07	0.0 0.224000E-06 0.992000E-08	0.705980E-01 0.179000E-09 0.246000E-05	0.0 0.258000E-03 0.159000E-08	0.0 0.857000E-06 0.489000E-04
NUCLIDE 856	CS146	0.226200E-01 0.110200E-02 0.122000E-03 1 XE146 1.00000	0.0 0.789000E-03 0.849000E-04	0.929870E-01 0.465000E-05 0.380200E-02	0.0 0.769260E-01 0.231000E-04	0.0 0.179400E-02 0.315100E-01
NUCLIDE 857	BA146	0.872520E-01 0.167760E-00 0.434710E-01 1 CS146 1.00000	0.0 0.138750E-00 0.350130E-01	0.423580E-01 0.563800E-02 0.308360E-00	0.0 0.140590E-01 0.157840E-01	0.0 0.193280E-00 0.114390E-01
NUCLIDE 858	LA146	0.759680E-01 0.173310E-01 0.927580E-00 1 BA146 1.00000	0.0 0.161700E-01 0.851300E-00	0.650180E-01 0.365060E-00 0.142500E-01	0.0 0.319020E-01 0.604970E-00	0.0 0.150840E-01 0.398410E-01
NUCLIDE 859	CE146	0.813553E-03 0.292790E-01 0.230340E-01 1 LA146 1.00000	0.0 0.289280E-01 0.228880E-01	0.100000E-01 0.192090E-01 0.264200E-01	0.227850E-00 0.338530E-01 0.218620E-01	0.300000E-00 0.225340E-01 0.459200E-01
NUCLIDE 860	PR146	0.477374E-03 0.299870E-01 0.247930E-01 1 CE146 1.00000	0.0 0.297930E-01 0.249800E-01	0.420000E-01 0.248630E-01 0.266530E-01	0.100400E-01 0.338660E-01 0.254230E-01	0.170340E-01 0.228730E-01 0.460070E-01
NUCLIDE 861	ND146	0.0 0.299900E-01 0.248070E-01 1 PR146 1.00000	0.969980E-25 0.297970E-01 0.250000E-01 3 ND146 1.00000	0.0 0.250100E-01 0.266530E-01 4 PM146 1.00000	0.0 0.238660E-01 0.254770E-01 0.65000	0.0 0.228740E-01 0.460070E-01
NUCLIDE 862	PM146	0.397460E-08 0.126000E-05 0.582000E-06	0.0 0.685000E-07 0.937000E-06	0.147200E-01 0.209000E-04 0.364000E-08	0.839530E-01 0.708000E-11 0.434000E-05	0.798000E-00 0.908000E-08 0.231000E-09
NUCLIDE 863	SM146	0.219796E-15 0.416000E-06 0.193000E-06 1 PM146 0.35000	0.0 0.226000E-07 0.309000E-06	0.254000E-01 0.689000E-05 0.119000E-08	0.254000E-01 0.234000E-11 0.143000E-05	0.0 0.300000E-08 0.762000E-10
NUCLIDE 864	BA147	0.296350E-00 0.198760E-01 0.370300E-02	0.0 0.139890E-01 0.288300E-02	0.654990E-01 0.248000E-03 0.494190E-01	0.0 0.390060E-00 0.888000E-03	0.0 0.296100E-01 0.216270E-00
NUCLIDE 865	LA147	0.396210E-01 0.631650E-00 0.260990E-00 1 BA147 1.00000	0.0 0.508640E-00 0.233950E-00	0.515170E-01 0.567080E-01 0.904080E-00	0.0 0.199500E-01 0.120470E-00	0.0 0.703130E-00 0.190760E-01
NUCLIDE 866	CE147	0.990210E-02 0.201100E-01 0.146300E-01 1 LA147 1.00000	0.0 0.177160E-01 0.146050E-01	0.375950E-01 0.825190E-00 0.205630E-01	0.0 0.254980E-01 0.113190E-01	0.0 0.185990E-01 0.299440E-01
NUCLIDE 867	PR147	0.962704E-03 0.225210E-01 0.193380E-01 1 CE147 1.00000	0.0 0.204190E-01 0.200450E-01	0.270000E-01 0.165240E-01 0.218280E-01	0.740810E-00 0.236350E-01 0.183160E-01	0.779000E-00 0.202400E-01 0.304770E-01
NUCLIDE 868	ND147	0.72535E-04 0.225510E-01 0.194710E-01 1 PR147 1.00000	0.0 0.204580E-01 0.202220E-01 3 ND146 1.00000	0.900000E-00 0.172370E-01 0.218280E-01	0.225480E-00 0.256350E-01 0.186880E-01	0.211200E-00 0.202550E-01 0.304790E-01
NUCLIDE 869	PM147	0.837955E-08 0.225510E-01 0.194710E-01 1 ND147 1.00000	0.129610E-23 0.204660E-01 0.202310E-01	0.225000E-00 0.172400E-01 0.218280E-01	0.631770E-01 0.256340E-01 0.186890E-01	0.0 0.229030E-01 0.304790E-01
NUCLIDE 870	SM147	0.203514E-18 0.225510E-01 0.194710E-01 1 PM147 1.00000	0.136970E-23 0.204990E-01 0.202630E-01 4 EU147 1.00000	0.231400E-01 0.172400E-01 0.218280E-01	0.231400E-01 0.229720E-01 0.186890E-01	0.0 0.229030E-01 0.304790E-01
NUCLIDE 871	EU147	0.330146E-06 0.0 0.0 4 GD147 1.00000	0.0 0.0 0.0	0.180000E-01 0.114000E-11 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 872	GD147	0.506687E-05 0.0 0.0 0.0	0.0 0.0 0.0	0.220000E-01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 873	XE148	0.240200E-01 0.123000E-10 0.0	0.0 0.674000E-11 0.0	0.800940E-01 0.0 0.190000E-09	0.0 0.126000E-07 0.0	0.0 0.493000E-10 0.647000E-08
NUCLIDE 874	CS148	0.559430E-01 0.578000E-06 0.382000E-07 1 XE148 1.00000	0.0 0.370000E-06 0.234000E-07	0.102300E-02 0.354000E-09 0.450000E-05	0.0 0.226000E-03 0.769000E-08	0.0 0.165000E-05 0.589000E-04
NUCLIDE 875	BA148	0.253550E-00 0.124700E-02 0.154000E-03 1 CS148 1.00000	0.0 0.929000E-03 0.139000E-03	0.522000E-01 0.656000E-03 0.498300E-02	0.0 0.724210E-01 0.477000E-04	0.0 0.254200E-02 0.257850E-01
NUCLIDE 876	LA148	0.271560E-00 0.138260E-00 0.483560E-01 1 BA148 1.00000	0.0 0.118740E-00 0.401040E-01	0.744000E-01 0.370700E-02 0.296740E-00	0.0 0.102780E-01 0.363000E-01	0.0 0.206140E-00 0.664020E-00

NUCLIDE 877	CE148	0.161197E-01 0.110390E 01 0.758710E 00 1 LA148 1.00000	0.0 0.106420E 01 0.714420E 00	0.200000E 01 0.272260E 00 0.146720E 01	0.0 0.203130E 01 0.288530E 00	0.0 0.128690E 01 0.183580E 01
NUCLIDE 878	PR148	0.577623E-02 0.166620E 01 0.158170E 01 1 CE148 1.00000	0.0 0.169010E 01 0.159780E 01	0.450000E 01 0.114620E 01 0.186180E 01	0.180010E 01 0.211550E 01 0.115400E 01	0.300000E 00 0.176620E 01 0.204600E 01
NUCLIDE 879	ND148	0.0 0.169090E 01 0.165850E 01 1 PR148 1.00000	0.0 0.172150E 01 0.169180E 01	0.0 0.138720E 01 0.187120E 01	0.0 0.211590E 01 0.128410E 01	0.0 0.178170E 01 0.201780E 01
NUCLIDE 880	PM148M	0.193314E-06 0.113000E-03 0.219000E-03 3 PM147 0.47400	0.0 0.456000E-04 0.311000E-03	0.244400E 01 0.230200E-02 0.612000E-05	0.436000E 00 0.239000E-07 0.724000E-03	0.197500E 01 0.140000E-04 0.434000E-06
NUCLIDE 881	PM148	0.148565E-05 0.140000E-04 0.233000E-03 3 PM147 0.52600	0.100980E-23 0.488000E-04 0.333000E-03 2 PM148M 0.07000	0.248000E 01 0.246300E-05 0.625000E-05	0.708430E 00 0.277000E-07 0.836000E-04	0.641100E 00 0.130000E-04 0.486000E-06
NUCLIDE 882	SM148	0.732652E-22 0.120000E-03 0.439000E-03 1 PM148M 0.93000	0.240560E-24 0.913000E-04 0.622000E-03 1 PM148 1.00000	0.200100E 01 0.460900E-02 0.122000E-04 3 SM147 1.00000	0.200100E 01 0.108000E-06 0.848000E-03	0.0 0.281000E-04 0.908000E-06
NUCLIDE 883	BA149	0.730710E 00 0.455000E-04 0.586000E-05	0.0 0.311000E-04 0.412000E-05	0.749760E 01 0.616000E-07 0.290000E-03	0.0 0.881300E-02 0.495000E-06	0.0 0.117000E-03 0.176100E-02
NUCLIDE 884	LA149	0.185250E 00 0.171680E-01 0.310000E-02 1 BA149 1.00000	0.0 0.136310E-01 0.417000E-02	0.610000E 01 0.192000E-03 0.372970E-01	0.0 0.287690E 00 0.863000E-03	0.0 0.327890E-01 0.142860E 00
NUCLIDE 885	CE149	0.329240E-01 0.385940E 00 0.243310E 00 1 LA149 1.00000	0.0 0.349440E 00 0.228550E 00	0.471000E 01 0.300170E-01 0.736450E 00	0.0 0.153990E 01 0.783960E-01	0.0 0.569380E 00 0.891890E 00
NUCLIDE 886	PR149	0.502281E-02 0.988790E 00 0.102440E 01 1 CE149 1.00000	0.0 0.970300E 00 0.406000E 01	0.280000E 01 0.317610E 00 0.136310E 01	0.100300E 01 0.183450E 01 0.234460E 00	0.300000E 00 0.125330E 01 0.122410E 01
NUCLIDE 887	ND149	0.111295E-03 0.107000E 01 0.123970E 01 1 PR149 1.00000	0.0 0.106670E 01 0.132390E 01	0.167000E 01 0.542580E 00 0.143190E 01	0.439120E 00 0.183960E 01 0.157810E 00	0.437600E 00 0.132640E 01 0.123490E 01
NUCLIDE 888	PM149	0.362601E-05 0.107070E 01 0.124390E 01 1 ND149 1.00000	0.124170E-23 0.106670E 01 0.132960E 01 3 PM148 1.00000	0.107100E 01 0.256280E 00 0.143210E 01	0.369020E 00 0.283960E 01 0.765920E 00	0.858000E-02 0.132690E 01 0.123490E 01
NUCLIDE 889	SM149	0.219796E-22 0.107100E 01 0.124390E 01 1 PM149 1.00000	0.158890E-23 0.107190E 01 0.132960E 01 3 SM148 1.00000	0.190000E 01 0.256330E 00 0.143210E 01 4 EU149 1.00000	0.190000E 01 0.184330E 01 0.765930E 00	0.0 0.132690E 01 0.123490E 01
NUCLIDE 890	EU149	0.862638E-07 0.618000E-11 0.206000E-09 4 GD149 1.00000	0.0 0.117000E-10 0.379000E-09	0.800000E 00 0.853000E-08 0.0	0.0 0.0 0.154000E-08	0.0 0.215000E-11 0.0
NUCLIDE 891	GD149	0.844478E-06 0.0 0.0	0.0 0.0 0.0	0.120000E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 892	XE150	0.428140E 01 0.0 0.0	0.0 0.0 0.0	0.894280E 01 0.0 0.0	0.0 0.269000E-11 0.0	0.0 0.0 0.0
NUCLIDE 893	CS150	0.126680E 02 0.0 0.126000E-11 1 XE150 1.00000	0.0 0.187000E-10 0.0	0.111510E 02 0.0 0.295000E-09	0.0 0.172000E-06 0.0	0.0 0.163000E-09 0.152000E-07
NUCLIDE 894	BA150	0.612260E 00 0.128000E-07 0.912000E-07 1 CS150 1.00000	0.0 0.644000E-06 0.597000E-07	0.617130E 01 0.432000E-09 0.914000E-05	0.0 0.204000E-03 0.788000E-08	0.0 0.352000E-05 0.872000E-04
NUCLIDE 895	LA150	0.839540E 00 0.216000E-03 0.302000E-03 1 BA150 1.00000	0.0 0.102500E-02 0.230000E-03	0.837610E 01 0.303000E-05 0.664500E-02	0.0 0.745310E-01 0.27000E-04	0.0 0.355700E-02 0.245000E-01
NUCLIDE 896	CE150	0.267250E-01 0.612150E-01 0.509600E-01 1 LA150 1.00000	0.0 0.854900E-01 0.441330E-01	0.340000E 01 0.279200E-02 0.268950E 00	0.0 0.751780E 00 0.106340E-01	0.0 0.194870E 00 0.423450E 00
NUCLIDE 897	PR150	0.185310E-01 0.507430E 00 0.535790E 00 1 CE150 1.00000	0.0 0.345480E 00 0.533450E 00	0.560000E 01 0.885710E-01 0.100890E 01	0.0 0.125620E 01 0.209940E 00	0.0 0.906300E 00 0.937940E 00
NUCLIDE 898	ND150	0.0 0.649020E 00 0.971340E 00 1 PR150 1.00000	0.0 0.754610E 00 0.102660E 01	0.0 0.281970E 00 0.118430E 01	0.0 0.128530E 01 0.498010E 00	0.0 0.112880E 01 0.991080E 00

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NUCLIDE 899	PM150	0.718436E-04	0.0	0.343000E 01	0.873690E 00	0.121200E 01
		0.886000E-03	0.698400E-02	0.364290E-01	0.980000E-04	0.489300E-02
		0.266980E-01	0.347880E-01	0.282700E-02	0.340580E-01	0.341000E-03
		3 PM149 1.00000				
NUCLIDE 900	SM150	0.0	0.683660E-24	0.0	0.0	0.0
		0.886000E-03	0.699700E-02	0.368840E-01	0.980000E-04	0.489800E-02
		0.267990E-01	0.349110E-01	0.282900E-02	0.343110E-01	0.341000E-03
		1 PM150 1.00000	3 SM149 1.00000			
NUCLIDE 901	LA151	0.485110E 00	0.0	0.705150E 01	0.0	0.0
		0.129000E-04	0.379000E-04	0.730000E-07	0.433500E-02	0.211000E-03
		0.103000E-04	0.742000E-05	0.449000E-03	0.681000E-06	0.868000E-02
NUCLIDE 902	CE151	0.112990E 00	0.0	0.567000E 01	0.0	0.0
		0.128280E-01	0.106530E-01	0.183000E-03	0.473820E 00	0.382060E-01
		0.607800E-04	0.308200E-02	0.591710E-01	0.802000E-03	0.163340E 00
		1 LA151 1.00000				
NUCLIDE 903	PR151	0.175000E-01	0.0	0.429000E 01	0.0	0.0
		0.196270E 00	0.184990E 00	0.186400E-01	0.827380E 00	0.456250E 00
		0.203460E 00	0.194780E 00	0.343000E 00	0.304770E-01	0.376150E 00
		1 CE151 1.00000				
NUCLIDE 904	ND151	0.931649E-03	0.0	0.240000E 01	0.160700E 00	0.390000E 00
		0.403660E 00	0.407840E 00	0.139000E 00	0.923930E 00	0.826000E 00
		0.671150E 00	0.703880E 00	0.889580E 00	0.460120E 00	0.400030E 00
		1 PR151 1.00000				
NUCLIDE 905	PM151	0.677961E-05	0.0	0.119000E 01	0.280920E 00	0.355600E 00
		0.422510E 00	0.430950E 00	0.204080E 00	0.925040E 00	0.851750E 00
		0.763870E 00	0.818530E 00	0.886490E 00	0.334430E 00	0.400200E 00
		1 ND151 1.00000				
NUCLIDE 906	SM151	0.236339E-09	0.284070E-23	0.760000E-01	0.199160E-01	0.374000E-03
		0.422620E 00	0.431090E 00	0.206710E 00	0.925040E 00	0.851860E 00
		0.765100E 00	0.820270E 00	0.886540E 00	0.336320E 00	0.400200E 00
		1 PM151 1.00000	3 SM150 1.00000			
NUCLIDE 907	EU151	0.0	0.0	0.0	0.0	0.0
		0.435050E 00	0.431090E 00	0.206720E 00	0.925040E 00	0.851860E 00
		0.765100E 00	0.820270E 00	0.886540E 00	0.337830E 00	0.400200E 00
		1 SM151 1.00000	4 ND151 1.00000			
NUCLIDE 908	GD151	0.668000E 00	0.0	0.400000E 00	0.0	0.0
		0.0	0.0	0.663000E-09	0.0	0.0
		0.269000E-10	0.521000E-10	0.0	0.170000E-09	0.0
		4 TB151 1.00000				
NUCLIDE 909	TB151	0.977365E-05	0.0	0.270000E 01	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
NUCLIDE 910	BA152	0.128710E 01	0.0	0.711080E 01	0.0	0.0
		0.537000E-10	0.346000E-10	0.0	0.488000E-06	0.422000E-09
		0.327000E-11	0.204000E-11	0.148000E-08	0.0	0.307000E-08
NUCLIDE 911	LA152	0.227360E 01	0.0	0.930370E 01	0.0	0.0
		0.106000E-05	0.796000E-06	0.845000E-09	0.350000E-03	0.592000E-05
		0.164000E-06	0.119000E-06	0.152000E-04	0.500000E-08	0.189000E-04
		1 BA152 1.00000				
NUCLIDE 912	CE152	0.988320E-01	0.0	0.435820E 01	0.0	0.0
		0.977000E-03	0.856000E-03	0.659000E-05	0.244190E-01	0.393400E-02
		0.375000E-03	0.318000E-03	0.779700E-02	0.478000E-04	0.352400E-02
		1 LA152 1.00000				
NUCLIDE 913	PR152	0.815800E-01	0.0	0.655000E 01	0.0	0.0
		0.492470E-01	0.495550E-01	0.248700E-02	0.396760E 00	0.146730E 00
		0.440350E-05	0.430470E-01	0.213700E 00	0.635200E-02	0.431810E-01
		1 CE152 1.00000				
NUCLIDE 914	ND152	0.987389E-03	0.0	0.161000E 01	0.0	0.0
		0.215680E 00	0.240040E 00	0.559140E-01	0.577340E 00	0.320520E 00
		0.368150E 00	0.404420E 00	0.634730E 00	0.924340E-01	0.791230E-01
		1 PR152 1.00000				
NUCLIDE 915	PM152	0.275058E-02	0.0	0.350000E 01	0.862840E 00	0.130000E 01
		0.263940E 00	0.302670E 00	0.143250E 00	0.384450E 00	0.602990E 00
		0.566390E 00	0.654420E 00	0.706300E 00	0.585090E 00	0.816940E-01
		1 ND152 1.00000				
NUCLIDE 916	SM152	0.0	0.719780E-24	0.0	0.0	0.0
		0.264920E 00	0.304130E 00	0.155070E 00	0.284470E 00	0.603800E 00
		0.575610E 00	0.667730E 00	0.707090E 00	0.193090E 00	0.817050E-01
		1 PM152 1.00000	3 SM151 1.00000	4 EU152M 0.23000		0.72000
NUCLIDE 917	EU152M	0.207033E-04	0.0	0.144000E 01	0.308000E 00	0.102000E 00
		0.528000E-06	0.917000E-06	0.505000E-04	0.843000E-09	0.472000E-06
		0.122000E-04	0.205000E-04	0.228000E-06	0.109000E-04	0.115000E-08
NUCLIDE 918	EU152	0.156997E-08	0.0	0.510000E 00	0.143000E-01	0.290000E 00
		0.328000E-06	0.917000E-06	0.505000E-04	0.843000E-09	0.472000E-06
		0.122000E-04	0.205000E-04	0.228000E-06	0.208000E-04	0.115000E-08
		3 EU151 1.00000				
NUCLIDE 919	GD152	0.199814E-21	0.0	0.224000E 01	0.424000E 01	0.0
		0.555000E-06	0.963000E-06	0.531000E-04	0.885000E-09	0.496000E-06
		0.128000E-04	0.215000E-04	0.240000E-06	0.420000E-04	0.121000E-08
		1 EU152M 0.77000	1 EU152 0.28000			
NUCLIDE 920	LA153	0.111060E 01	0.0	0.798270E 01	0.0	0.0
		0.851000E-08	0.652000E-08	0.682000E-11	0.161000E-04	0.656000E-07
		0.995000E-09	0.726000E-09	0.241000E-06	0.407000E-10	0.147000E-05

NUCLIDE 921	CE153	0.315710E-04 0.328000E-04 0.463000E-05 1 LA153 1.00000	0.0 0.293000E-04 0.820000E-05	0.661220E-01 0.224000E-06 0.475000E-03	0.0 0.256000E-02 0.408000E-06	0.0 0.180000E-03 0.107100E-02
NUCLIDE 922	PR153	0.669220E-01 0.629300E-02 0.447200E-02 1 CE153 1.00000	0.0 0.650300E-02 0.441900E-02	0.524000E-01 0.351000E-03 0.483900E-01	0.0 0.144370E-00 0.777000E-03	0.0 0.251760E-01 0.433530E-01
NUCLIDE 923	ND153	0.884900E-04 0.789150E-01 0.120880E-00 1 PR153 1.00000	0.0 0.923000E-01 0.136490E-00	0.387000E-01 0.285040E-01 0.360630E-00	0.0 0.75790E-00 0.790040E-01	0.0 0.242180E-00 0.162630E-00
NUCLIDE 924	PM153	0.210045E-04 0.146380E-00 0.347070E-00 1 ND153 1.00000	0.0 0.182410E-00 0.426950E-00	0.180000E-01 0.177940E-00 0.529460E-00	0.813930E-00 0.407780E-00 0.832270E-01	0.150000E-00 0.396040E-00 0.790900E-00
NUCLIDE 925	SM153	0.411412E-05 0.151340E-00 0.383900E-00 1 PM153 1.00000	0.0 0.189970E-00 0.480600E-00	0.801000E-00 0.244220E-00 0.536290E-00	0.229450E-00 0.408060E-00 0.501830E-00	0.938000E-01 0.404440E-00 0.194350E-00
NUCLIDE 926	EU153	0.0 0.56320E-00 0.383970E-00 1 SM153 1.00000	0.214610E-23 0.190010E-00 0.480930E-00	0.0 0.245260E-00 0.536310E-00	0.0 0.408060E-00 0.125790E-00	0.0 0.404470E-00 0.194350E-00
NUCLIDE 927	GD153	0.331510E-07 0.516000E-08 0.207000E-06 4 TB153 1.00000	0.0 0.962000E-08 0.407000E-06	0.243000E-00 0.383000E-05 0.172000E-08	0.0 0.262000E-11 0.218000E-06	0.0 0.411000E-08 0.148000E-10
NUCLIDE 928	TB153	0.334272E-05 0.0 0.515000E-11	0.0 0.0 0.118000E-10	0.190000E-01 0.331000E-09 0.0	0.0 0.0 0.463000E-10	0.0 0.0 0.0
NUCLIDE 929	BA154	0.243700E-04 0.0 0.0	0.0 0.0 0.0	0.803150E-01 0.0 0.0	0.0 0.261000E-11 0.0	0.0 0.0 0.0
NUCLIDE 930	LA154	0.551240E-01 0.357000E-10 0.416000E-11 1 BA154 1.00000	0.0 0.274000E-10 0.283000E-11	0.102140E-02 0.0 0.202000E-08	0.0 0.470000E-06 0.0	0.0 0.476000E-09 0.259000E-08
NUCLIDE 931	CE154	0.276810E-00 0.549000E-06 0.162000E-06 1 LA154 1.00000	0.0 0.449500E-06 0.12000E-06	0.530460E-01 0.122000E-08 0.157000E-04	0.0 0.292000E-03 0.222000E-08	0.0 0.504000E-05 0.724000E-05
NUCLIDE 932	PR154	0.289090E-00 0.399000E-03 0.291000E-03 1 CE154 1.00000	0.0 0.418000E-03 0.252000E-03	0.748560E-01 0.744000E-05 0.593900E-02	0.0 0.200480E-01 0.117000E-04	0.0 0.256800E-02 0.104000E-02
NUCLIDE 933	ND154	0.626880E-02 0.161430E-01 0.272300E-01 1 PR154 1.00000	0.0 0.194080E-01 0.271470E-01	0.258000E-01 0.221800E-02 0.133510E-00	0.0 0.179740E-00 0.211500E-02	0.0 0.751700E-01 0.102410E-01
NUCLIDE 934	PM154	0.442098E-02 0.405590E-01 0.189120E-00 1 ND154 1.00000	0.0 0.801280E-01 0.211850E-00	0.250000E-01 0.405000E-01 0.342050E-00	0.997550E-00 0.227120E-00 0.22600E-01	0.0 0.227120E-00 0.169270E-01
NUCLIDE 935	SM154	0.0 0.710820E-01 0.271440E-00 1 PM154 1.00000	0.0 0.964550E-01 0.316770E-00	0.0 0.918990E-01 0.370140E-00	0.0 0.244840E-00 0.457310E-01	0.0 0.253630E-00 0.473020E-01
NUCLIDE 936	EU154	0.281789E-08 0.170000E-03 0.304400E-02 3 EU153 1.00000	0.312690E-23 0.303000E-03 0.448800E-02	0.197800E-01 0.361800E-02 0.241000E-03	0.252520E-00 0.330000E-03 0.42500E-02	0.123060E-01 0.303000E-03 0.123000E-05
NUCLIDE 937	GD154	0.0 0.170000E-03 0.305000E-02 1 EU154 1.00000	0.0 0.304000E-03 0.449900E-02	0.0 0.565600E-02 0.241000E-03	0.0 0.330000E-03 0.43100E-02	0.0 0.304000E-03 0.123000E-05
NUCLIDE 938	CE155	0.757370E-00 0.492000E-08 0.158000E-08	0.0 0.603000E-08 0.114000E-08	0.753800E-01 0.583000E-11 0.246000E-06	0.0 0.131000E-04 0.87000E-10	0.0 0.771000E-07 0.172000E-06
NUCLIDE 939	PR155	0.200930E-00 0.140000E-04 0.112000E-04 1 CE155 1.00000	0.0 0.200000E-04 0.944000E-05	0.617960E-01 0.162000E-06 0.443000E-03	0.0 0.258200E-02 0.471000E-06	0.0 0.147000E-03 0.875000E-04
NUCLIDE 940	ND155	0.382920E-01 0.200400E-04 0.387200E-02 1 PR155 1.00000	0.0 0.332200E-02 0.378000E-02	0.482000E-01 0.185000E-03 0.349490E-01	0.0 0.806440E-01 0.85000E-03	0.0 0.145690E-01 0.256100E-02
NUCLIDE 941	PM155	0.420370E-02 0.197380E-01 0.806940E-01 1 ND155 1.00000	0.0 0.368810E-01 0.893490E-01	0.346000E-01 0.113410E-01 0.213490E-00	0.0 0.131810E-00 0.10100E-02	0.0 0.106220E-00 0.773800E-02
NUCLIDE 942	SM155	0.518047E-03 0.326250E-01 0.196830E-00 1 PM155 1.00000	0.0 0.664560E-01 0.236850E-00	0.165000E-01 0.572410E-01 0.290730E-00	0.760600E-00 0.39000E-00 0.56590E-01	0.120500E-00 0.154570E-00 0.864100E-02

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NUCLIDE 943	EU155	0.439591E-08 0.332780E-01 0.206630E 00 1 SM155 1.00000	0.192190E-23 0.662240E-01 0.257750E 00 3 EU154 1.00000	0.248000E 00 0.731080E-01 0.293170E 00 1.00000	0.172470E-01 0.139050E 00 0.298390E-01 0.0	0.765000E-01 0.156470E 00 0.865100E-02 0.0
NUCLIDE 944	GD155	0.0 0.332800E-01 0.206740E 00 1 EU155 1.00000	0.0 0.662350E-01 0.257940E 00 4 Te155 1.00000	0.0 0.734990E-01 0.293170E 00 1.00000	0.0 0.139050E 00 0.299020E-01 0.0	0.0 0.156480E 00 0.865100E-02 0.0
NUCLIDE 945	TB155	0.148565E-05 0.375000E-09 0.424000E-07 1 DY155 1.00000	0.0 0.124000E-08 0.882000E-07 1.00000	0.900000E 00 0.322000E-06 0.396000E-09 0.0	0.0 0.0 0.291000E-07 0.0	0.0 0.451000E-08 0.0 0.0
NUCLIDE 946	DY155	0.188766E-04 0.0 0.0	0.0 0.0 0.188000E-11	0.210000E 01 0.329000E-10 0.0	0.0 0.0 0.190000E-11	0.0 0.0 0.0
NUCLIDE 947	CE156	0.644690E 00 0.184000E-10 0.327000E-11	0.0 0.183000E-10 0.382000E-11	0.623230E 01 0.0 0.290000E-08	0.0 0.196000E-06 0.0	0.0 0.587000E-09 0.858000E-09
NUCLIDE 948	PR156	0.865860E 00 0.215000E-06 0.993000E-07 1 CE156 1.00000	0.0 0.249000E-06 0.136000E-06 1.00000	0.840340E 01 0.179000E-08 0.171000E-04 1.00000	0.0 0.211000E-03 0.162000E-08 0.0	0.0 0.458000E-03 0.161000E-03 0.0
NUCLIDE 949	ND156	0.326480E-01 0.119000E-03 0.140000E-03 1 PR156 1.00000	0.0 0.160000E-03 0.223000E-03 1.00000	0.352830E 01 0.828000E-05 0.495500E-02 1.00000	0.0 0.121940E-01 0.273000E-05 0.0	0.0 0.172800E-02 0.200000E-03 0.0
NUCLIDE 950	PM156	0.217600E-01 0.378200E-04 0.104390E-01 1 ND156 1.00000	0.0 0.582100E-02 0.190940E-01 1.00000	0.570000E 01 0.189300E-02 0.882790E-01 1.00000	0.0 0.290670E-01 0.699000E-03 0.0	0.0 0.388510E-01 0.160100E-02 0.0
NUCLIDE 951	SM156	0.204831E-04 0.120420E-01 0.610710E-01 1 PM156 1.00000	0.0 0.202750E-01 0.124540E 00 1.00000	0.720000E 00 0.275470E-01 0.197420E 00 1.00000	0.178250E 00 0.44790E-01 0.705100E-02 0.0	0.154320E 00 0.995380E-01 0.241600E-02 0.0
NUCLIDE 952	EU156	0.527798E-06 0.133260E-01 0.819140E-01 1 SM156 1.00000	0.181540E-23 0.233690E-01 0.153940E 00 3 EU155 1.00000	0.245000E 01 0.551610E-01 0.409040E 00 1.00000	0.402890E 00 0.748380E-01 0.217840E-01 0.0	0.135950E 01 0.10710E 00 0.245200E-02 0.0
NUCLIDE 953	GD156	0.0 0.133420E-01 0.825380E-01 1 EU156 1.00000	0.0 0.281310E-01 0.156920E 00 4 Te156M 0.50000	0.0 0.574330E-01 0.209120E 00 4 TB156 1.00000	0.0 0.748380E-01 0.22080E-01 1.00000	0.0 0.108010E 00 0.243400E-02 0.0
NUCLIDE 954	TB156M	0.385082E-04 0.531000E-08 0.514000E-06	0.0 0.209000E-07 0.120000E-05	0.128800E 01 0.621000E-05 0.127000E-07	0.0 0.234000E-10 0.255000E-06	0.0 0.154000E-07 0.543000E-11
NUCLIDE 955	TB156	0.157305E-05 0.796000E-08 0.771000E-06 2 TB156M 0.50000	0.0 0.313000E-07 0.180000E-03 1.00000	0.240000E 01 0.932000E-05 0.991000E-07 1.00000	0.0 0.401000E-10 0.582000E-06 0.0	0.0 0.230000E-07 0.814000E-11 0.0
NUCLIDE 956	DY156	0.109898E-21 0.0 0.804000E-10	0.0 0.146000E-11 0.219000E-09	0.0 0.323000E-08 0.0	0.0 0.0 0.149000E-09	0.0 0.0 0.0
NUCLIDE 957	CE157	0.161710E 01 0.0 0.0	0.0 0.0 0.0	0.844470E 01 0.0 0.148000E-10	0.0 0.291000E-08 0.0	0.0 0.291000E-11 0.556000E-11
NUCLIDE 958	PR157	0.507570E 00 0.220000E-08 0.128000E-08 1 CE157 1.00000	0.0 0.412000E-08 0.116000E-08 1.00000	0.709950E 01 0.111000E-10 0.351000E-06 1.00000	0.0 0.970000E-05 0.105000E-10 0.0	0.0 0.912000E-07 0.461000E-07 0.0
NUCLIDE 959	ND157	0.124710E 00 0.474000E-05 0.713000E-05 1 PR157 1.00000	0.0 0.103000E-04 0.750000E-05 1.00000	0.575360E 01 0.205000E-06 0.389000E-03 1.00000	0.0 0.240400E-02 0.22000E-06 0.0	0.0 0.133000E-03 0.185000E-04 0.0
NUCLIDE 960	PM157	0.210350E-01 0.525000E-03 0.194500E-04 1 ND157 1.00000	0.0 0.132300E-02 0.236900E-02 1.00000	0.440760E 01 0.178000E-03 0.231660E-01 1.00000	0.0 0.189610E-01 0.277000E-04 0.0	0.0 0.101580E-01 0.437000E-03 0.0
NUCLIDE 961	SM157	0.231049E-01 0.419500E-02 0.329260E-01 1 PM157 1.00000	0.0 0.118600E-01 0.455840E-01 1.00000	0.270000E 01 0.850600E-02 0.114540E 00 1.00000	0.830530E 00 0.265180E-01 0.14900E-02 0.0	0.570000E 00 0.607220E-01 0.115600E-02 0.0
NUCLIDE 962	EU157	0.126672E-04 0.633200E-02 0.713650E-01 1 SM157 1.00000	0.0 0.187990E-01 0.106230E 00 5 EU156 1.00000	0.134000E 01 0.358090E-01 0.145350E 00 1.00000	0.121350E 00 0.278150E-01 0.84000E-02 0.0	0.336320E 00 0.820600E-01 0.125800E-02 0.0
NUCLIDE 963	GD157	0.0 0.646200E-02 0.754920E-01 1 EU157 1.00000	0.0 0.191500E-01 0.114200E 00 4 TB157 1.00000	0.0 0.434820E-01 0.146090E 00 1.00000	0.0 0.279220E-01 0.73500E-02 0.0	0.0 0.827170E-01 0.125900E-02 0.0
NUCLIDE 964	TB157	0.137372E-09 0.235000E-06 0.244000E-04 4 DY157 1.00000	0.0 0.102000E-05 0.512000E-04 1.00000	0.0 0.144000E-03 0.956000E-06 1.00000	0.0 0.59000E-08 0.10000E-04 0.0	0.0 0.111000E-05 0.430000E-09 0.0

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NUCLIDE 965	UY157	0.237705E-04 0.283000E-10 0.760000E-08	0.0 0.143000E-09 0.186000E-07	0.110000E 01 0.147000E-06 0.584000E-10	0.0 0.0 0.14000E-08	0.0 0.899000E-10 0.0
NUCLIDE 966	CE158	0.131550E 01 0.0 0.0	0.0 0.0 0.0	0.714050E 01 0.0 0.0	0.0 0.680000E-11 0.0	0.0 0.0 0.0
NUCLIDE 967	PR158	0.227070E 01 0.505000E-11 0.212000E-11 1 CE158 1.00000	0.0 0.820000E-11 0.197000E-11	0.930230E 01 0.0 0.190000E-08	0.0 0.587000E-07 0.0	0.0 0.319000E-09 0.343000E-09
NUCLIDE 968	ND158	0.111890E 00 0.548000E-07 0.607000E-07 1 PR158 1.00000	0.0 0.105000E-06 0.658000E-07	0.446260E 01 0.101000E-08 0.102000E-04	0.0 0.277000E-04 0.289000E-09	0.0 0.227000E-05 0.656000E-06
NUCLIDE 969	PM158	0.905480E-01 0.287000E-04 0.808000E-04 1 ND158 1.00000	0.0 0.636000E-04 0.102000E-03	0.662330E 01 0.440000E-05 0.271400E-02	0.0 0.307200E-02 0.120000E-05	0.0 0.784000E-03 0.649000E-04
NUCLIDE 970	SM158	0.911710E-03 0.863000E-03 0.567800E-02 1 PM158 1.00000	0.0 0.218700E-02 0.824200E-02	0.178310E 01 0.950000E-03 0.47940E-01	0.0 0.140010E-01 0.125000E-03	0.0 0.162980E-01 0.473000E-03
NUCLIDE 971	EU158	0.251687E-03 0.265200E-02 0.318270E-01 1 SM158 1.00000	0.0 0.734600E-02 0.514370E-01	0.350000E 01 0.131510E-01 0.960020E-01	0.859210E 00 0.173340E-01 0.955000E-03	0.150000E 01 0.398530E-01 0.688000E-03
NUCLIDE 972	GD158	0.0 0.428600E-02 0.422970E-01 1 EU158 1.00000	0.336880E-24 0.840700E-02 0.711000E-01	0.0 0.282980E-01 0.101070E 00	0.0 0.174060E-01 0.142900E-02	0.0 0.428070E-01 0.697000E-03
NUCLIDE 973	TB158M	0.635915E-01 0.276000E-05 0.145000E-03	0.0 0.713000E-05 0.332000E-03	0.110000E 00 0.513000E-03 0.153000E-04	0.0 0.410000E-07 0.959000E-05	0.110000E 00 0.115000E-04 0.943000E-08
NUCLIDE 974	TB158	0.146530E-10 0.553000E-05 0.290000E-03 1 TB158M 1.00000	0.0 0.143000E-04 0.624000E-03	0.116500E 01 0.102500E-02 0.305000E-04	0.388300E-01 0.820000E-07 0.92000E-04	0.817000E 00 0.231000E-04 0.489000E-07
NUCLIDE 975	DY158	0.0 0.888000E-06 0.469000E-04 1 TB158 0.16000	0.0 0.229000E-05 0.101000E-03	0.0 0.169000E-03 0.489000E-03	0.0 0.131000E-07 0.311000E-05	0.0 0.370000E-05 0.302000E-08
NUCLIDE 976	PR159	0.112690E 01 0.0 0.0	0.0 0.0 0.0	0.800020E 01 0.0 0.272000E-10	0.0 0.149000E-07 0.0	0.0 0.831000E-03 0.424000E-08
NUCLIDE 977	ND159	0.333670E 00 0.110000E-08 0.14000E-08 1 PR159 1.00000	0.0 0.191000E-08 0.137000E-08	0.666720E 01 0.135000E-10 0.445000E-06	0.0 0.187000E-04 0.0	0.0 0.756000E-04 0.104000E-06
NUCLIDE 978	PM159	0.751950E-01 0.170000E-05 0.454000E-05 1 ND159 1.00000	0.0 0.344000E-05 0.633000E-05	0.533390E 01 0.177000E-06 0.344000E-03	0.0 0.124300E-02 0.0	0.0 0.331000E-03 0.136000E-04
NUCLIDE 979	SM159	0.110100E-01 0.138000E-03 0.898000E-03 1 PM159 1.00000	0.0 0.321000E-03 0.144700E-02	0.400030E 01 0.111000E-03 0.146930E-01	0.0 0.668000E-02 0.387000E-08	0.0 0.848600E-02 0.122000E-03
NUCLIDE 980	EU159	0.638257E-03 0.860000E-03 0.115410E-01 1 SM159 1.00000	0.0 0.224100E-02 0.210550E-01	0.257000E 01 0.392500E-02 0.572510E-01	0.769810E 00 0.870600E-02 0.861000E-05	0.551800E 00 0.235680E-01 0.193000E-03
NUCLIDE 981	GD159	0.106967E-04 0.108400E-02 0.216740E-01 1 EU159 1.00000	0.0 0.320400E-02 0.421600E-01	0.950000E 00 0.134210E-01 0.678580E-01	0.299600E 00 0.876000E-02 0.982000E-03	0.599000E-01 0.258800E-01 0.197000E-03
NUCLIDE 982	TB159	0.0 0.109200E-02 0.224420E-01 1 GD159 1.00000	0.168470E-23 0.324000E-02 0.459890E-01	0.0 0.178680E-01 0.680390E-01	0.0 0.876000E-02 0.123660E-01	0.0 0.259030E-01 0.197000E-03
NUCLIDE 983	DY159	0.557121E-07 0.134000E-07 0.346000E-05 4 HO159 1.00000	0.0 0.752000E-07 0.952000E-05	0.380000E 00 0.330000E-04 0.164000E-06	0.0 0.545000E-11 0.437900E-02	0.0 0.117000E-07 0.147000E-11
NUCLIDE 984	HO159M	0.845301E-01 0.0 0.385000E-09	0.0 0.377000E-11 0.124000E-08	0.205900E 00 0.121000E-07 0.345000E-11	0.0 0.0 0.964000E-04	0.205900E 00 0.0 0.0
NUCLIDE 985	HO159	0.350074E-03 0.115000E-11 0.770000E-09 2 HO159M 1.00000	0.0 0.754000E-11 0.247000E-08	0.180000E 01 0.241000E-07 0.689000E-11	0.0 0.0 0.493000E-03	0.0 0.0 0.0
NUCLIDE 986	CE160	0.243270E 01 0.0 0.0	0.0 0.0 0.0	0.802880E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0

NUCLIDE 987	PR160	0.535130E 01 0.0 0.0 1 CE160 1.00000	0.0 0.0 0.0	0.101820E 02 0.0 0.0	0.0 0.214000E-11 0.0	0.0 0.0 0.0
NUCLIDE 988	ND160	0.297520E 00 0.439000E-11 0.514000E-11 1 PR160 1.00000	0.0 0.111000E-10 0.772000E-11	0.537770E 01 0.0 0.562000E-08	0.0 0.281000E-07 0.0	0.0 0.926000E-09 0.232000E-09
NUCLIDE 989	PM160	0.305460E 00 0.268000E-07 0.822000E-07 1 ND160 1.00000	0.0 0.792000E-07 0.143000E-06	0.752920E 01 0.310000E-08 0.170000E-09	0.0 0.213000E-04 0.242000E-08	0.0 0.357000E-05 0.250000E-06
NUCLIDE 990	SM160	0.840040E-02 0.798000E-02 0.615000E-04 1 PM160 1.00000	0.0 0.274000E-04 0.124000E-03	0.272340E 01 0.753000E-05 0.258000E-02	0.0 0.266000E-03 0.286000E-05	0.0 0.685000E-03 0.145000E-04
NUCLIDE 991	EU160	0.462098E-02 0.146000E-03 0.256000E-02 1 SM160 1.00000	0.0 0.569000E-03 0.593700E-02	0.360000E 01 0.939000E-03 0.266520E-01	0.150440E 01 0.202300E-02 0.222000E-03	0.0 0.835000E-02 0.701000E-04
NUCLIDE 992	GD160	0.0 0.331000E-03 0.978000E-02 1 EU160 1.00000	0.0 0.139100E-02 0.249940E-01	0.0 0.822400E-02 0.450240E-01	0.0 0.240100E-02 0.405300E-02	0.0 0.159260E-01 0.882000E-04
NUCLIDE 993	TB160	0.110809E-06 0.431000E-06 0.173600E-02 3 TB159 1.00000	0.0 0.102000E-03 0.525200E-02	0.181000E 01 0.468100E-02 0.208900E-02	0.193000E 00 0.258000E-05 0.187000E-03	0.121260E 01 0.539000E-03 0.422000E-06
NUCLIDE 994	DY160	0.0 0.434000E-06 0.178500E-02 1 TB160 1.00000	0.0 0.103000E-03 0.535200E-02	0.0 0.1881000E-02 0.109300E-02	0.0 0.258000E-05 0.813000E-03	0.0 0.542000E-03 0.426000E-06
NUCLIDE 995	ND161	0.773450E 00 0.0 0.0	0.0 0.0 0.0	0.56170E 01 0.0 0.182000E-10	0.0 0.44000E-09 0.0	0.0 0.445000E-11 0.0
NUCLIDE 996	PM161	0.214710E 00 0.171000E-09 0.549000E-09 1 ND161 1.00000	0.0 0.620000E-09 0.105000E-08	0.624130E 01 0.158000E-10 0.219000E-06	0.0 0.256000E-05 0.134000E-11	0.0 0.684000E-07 0.248000E-06
NUCLIDE 997	SM161	0.438640E-01 0.201000E-06 0.166000E-05 1 PM161 1.00000	0.0 0.848000E-06 0.371000E-05	0.492030E 01 0.158000E-06 0.125000E-03	0.0 0.68000E-03 0.869000E-08	0.0 0.497000E-04 0.320000E-06
NUCLIDE 998	EU161	0.543610E-02 0.127000E-04 0.252000E-03 1 SM161 1.00000	0.0 0.615000E-04 0.652000E-03	0.359910E 01 0.754000E-04 0.408000E-02	0.0 0.130800E-02 0.475000E-05	0.0 0.201200E-02 0.702000E-05
NUCLIDE 999	GD161	0.312228E-02 0.653000E-04 0.260300E-02 1 EU161 1.00000	0.0 0.352000E-03 0.759600E-02	0.200000E 01 0.209200E-02 0.132200E-01	0.277060E 00 0.495700E-02 0.288000E-04	0.427450E 00 0.754700E-02 0.135000E-04
NUCLIDE 1000	TB161	0.114608E-05 0.840000E-04 0.439800E-02 1 GD161 1.00000	0.0 0.469000E-03 0.135890E-01	0.580000E 00 0.610800E-02 0.149860E-01	0.454200E 00 0.498400E-02 0.423000E-03	0.774000E-01 0.885900E-02 0.140000E-04
NUCLIDE 1001	DY161	0.0 0.844000E-04 0.450300E-02 1 TB161 1.00000	0.0 0.472000E-03 0.139470E-01	0.0 0.678000E-02 0.150090E-01	0.0 0.198400E-02 0.132000E-03	0.0 0.888000E-02 0.140000E-04
NUCLIDE 1002	HO161M	0.101933E 00 0.324000E-09 0.184000E-06 4 GR161 0.27000	0.0 0.271000E-08 0.847000E-06	0.211100E 00 0.360000E-05 0.727000E-08	0.0 0.394000E-11 0.493000E-07	0.211100E 00 0.899000E-08 0.0
NUCLIDE 1003	HO161	0.770184E-04 0.649000E-09 0.387090E-06 2 HO161M 1.00000	0.0 0.243000E-08 0.163000E-05	0.800000E 00 0.720000E-05 0.151000E-07	0.0 0.187000E-11 0.187000E-07	0.0 0.180000E-07 0.0
NUCLIDE 1004	ER161	0.621100E-04 0.0 0.624000E-10	0.0 0.0 0.322000E-09	0.240000E 01 0.0 0.0	0.0 0.401000E-08 0.213000E-10	0.0 0.0 0.0
NUCLIDE 1005	ND162	0.667170E 00 0.0 0.0	0.0 0.0 0.0	0.627320E 01 0.0 0.0	0.0 0.240000E-11 0.0	0.0 0.0 0.0
NUCLIDE 1006	PM162	0.878510E 00 0.109000E-11 0.453000E-11 1 ND162 1.00000	0.0 0.280000E-11 0.0	0.841620E 01 0.0 0.594000E-09	0.0 0.188000E-07 0.0	0.0 0.106000E-08 0.174000E-10
NUCLIDE 1007	SM162	0.387090E-01 0.461000E-05 0.481000E-07 1 PM162 1.00000	0.0 0.138000E-07 0.0	0.364470E 01 0.226000E-08 0.136000E-05	0.0 0.108000E-05 0.442000E-10	0.0 0.284000E-05 0.119000E-07
NUCLIDE 1008	EU162	0.251600E-01 0.965000E-06 0.244000E-04 1 SM162 1.00000	0.0 0.334000E-05 0.0	0.578680E 01 0.382000E-05 0.180000E-03	0.0 0.459000E-03 0.474000E-07	0.0 0.385000E-03 0.457000E-06

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NUCLIDE 1009	GD162	0.111081E-02 0.130000E-04 0.716000E-03 1 EU162 1.00000	0.0 0.511000E-04 0.0	0.101480E 01 0.337000E-03 0.133700E-02	0.0 0.408000E-03 0.475000E-05	0.0 0.361700E-02 0.165000E-05
NUCLIDE 1010	TB162M	0.859558E-04 0.125000E-04 0.108100E-02 1 GD162 0.50000	0.0 0.526000E-04 0.0	0.280000E 01 0.112400E-02 0.102900E-02	0.0 0.421000E-03 0.965000E-05	0.0 0.292700E-02 0.959000E-06
NUCLIDE 1011	TB162	0.154651E-02 0.125000E-04 0.108100E-02 1 GD162 0.50000	0.0 0.526000E-04 0.0	0.280000E 01 0.112400E-02 0.102900E-02	0.0 0.421000E-03 0.965000E-05	0.0 0.292700E-02 0.959000E-06
NUCLIDE 1012	DY162	0.0 0.261000E-04 0.241700E-02 1 TB162M 1.00000	0.0 0.110000E-03 0.0	0.0 0.319200E-02 0.209100E-02	0.0 0.741000E-03 0.469000E-04	0.0 0.397200E-02 0.192000E-05
NUCLIDE 1013	HO162M	0.169889E-02 0.203000E-06 0.144000E-05	0.0 0.136000E-07 0.0	0.899000E 00 0.161000E-04 0.444000E-07	0.0 0.427000E-10 0.404000E-07	0.0 0.183000E-06 0.164000E-11
NUCLIDE 1014	HO162	0.770164E-03 0.375000E-08 0.225000E-05 2 HO162M 0.63000	0.0 0.222000E-07 0.0	0.216000E 01 0.283000E-04 0.744000E-07	0.0 0.402000E-09 0.459000E-07	0.0 0.299000E-06 0.487000E-11
NUCLIDE 1015	ER162	0.0 0.109000E-11 0.171000E-08	0.0 0.752000E-11 0.0	0.0 0.637000E-07 0.114000E-10	0.0 0.0 0.402000E-09	0.0 0.548000E-06 0.0
NUCLIDE 1016	ND163	0.160700E 01 0.0 0.0	0.0 0.0 0.0	0.843680E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 1017	PM163	0.322060E 00 0.0 0.0 1 ND163 1.00000	0.0 0.0 0.0	0.712950E 01 0.0 0.114000E-10	0.0 0.466000E-10 0.0	0.0 0.368000E-11 0.457000E-09
NUCLIDE 1018	SM163	0.134840E 00 0.360000E-10 0.278000E-09 1 PM163 1.00000	0.0 0.726000E-10 0.0	0.582130E 01 0.101000E-10 0.893000E-07	0.0 0.430000E-06 0.0	0.0 0.456000E-07 0.620000E-07
NUCLIDE 1019	EU163	0.246210E-01 0.333000E-01 0.638000E-06 1 SM163 1.00000	0.0 0.780000E-07 0.0	0.451270E 01 0.786000E-07 0.337000E-09	0.0 0.414000E-04 0.486000E-09	0.0 0.269000E-04 0.384000E-06
NUCLIDE 1020	GD163	0.249950E-02 0.168000E-05 0.749000E-04 1 EU163 1.00000	0.0 0.452000E-05 0.0	0.320380E 01 0.297000E-04 0.757000E-03	0.0 0.463000E-04 0.439000E-06	0.0 0.900000E-03 0.471000E-06
NUCLIDE 1021	TB163M	0.392433E-03 0.367000E-05 0.313000E-03 1 GD163 0.50000	0.0 0.109000E-04 0.0	0.168000E 01 0.333000E-03 0.970000E-03	0.0 0.436000E-04 0.483000E-05	0.0 0.148400E-02 0.471000E-06
NUCLIDE 1022	TB163	0.296217E-04 0.167000E-03 0.313000E-03 1 GD163 0.50000	0.0 0.109000E-04 0.0	0.168000E 01 0.333000E-03 0.970000E-03	0.0 0.436000E-04 0.483000E-05	0.0 0.148400E-02 0.471000E-06
NUCLIDE 1023	DY163	0.0 0.899000E-05 0.963000E-03 1 TB163M 1.00000	0.0 0.276000E-04 0.0	0.0 0.170900E-02 0.210000E-02	0.0 0.408000E-03 0.452000E-05	0.0 0.337900E-02 0.295000E-10
NUCLIDE 1024	HO163M	0.647801E 00 0.166000E-07 0.784000E-05	0.0 0.664000E-07 0.0	0.299000E 00 0.702000E-04 0.684000E-06	0.0 0.408000E-08 0.476000E-06	0.0 0.271000E-05 0.390000E-10
NUCLIDE 1025	HO163	0.219796E-10 0.333000E-07 0.157000E-04 2 HO163M 1.00000	0.0 0.133000E-06 0.0	0.100000E-01 0.142000E-03 0.137000E-05	0.0 0.416000E-08 0.353000E-06	0.0 0.542000E-05 0.0
NUCLIDE 1026	ER163	0.154033E-05 0.360000E-10 0.446000E-07	0.0 0.167000E-09 0.0	0.121000E 01 0.120000E-05 0.597000E-09	0.0 0.0 0.495000E-08	0.0 0.373000E-08 0.0
NUCLIDE 1027	ND164	0.0 0.0 0.0	0.0 0.0 0.0	0.714900E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 1028	PM164	0.222900E 01 0.0 0.0 1 ND164 1.00000	0.0 0.0 0.0	0.928430E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 1029	SM164	0.123400E 00 0.0 0.210000E-11 1 PM164 1.00000	0.0 0.0 0.0	0.454670E 01 0.0 0.226000E-09	0.0 0.410000E-08 0.0	0.0 0.802000E-09 0.573000E-11
NUCLIDE 1030	EU164	0.982120E-01 0.997000E-04 0.164000E-07 1 SM164 1.00000	0.0 0.227000E-08 0.0	0.668030E 01 0.221000E-08 0.383000E-06	0.0 0.470000E-06 0.415000E-10	0.0 0.178000E-05 0.292000E-08

NUCLIDE 1031	GD164	0.142560E-02 0.156000E-06 0.618000E-05 1 EU164 1.00000	0.0 0.411000E-06 0.0	0.194180E 01 0.277000E-05 0.338000E-04	0.0 0.251000E-04 0.06000E-07	0.0 0.181000E-03 0.854000E-07
NUCLIDE 1032	TB164	0.380015E-02 0.165000E-05 0.139000E-03 1 GD164 1.00000	0.0 0.490000E-05 0.0	0.380000E 01 0.184000E-03 0.225000E-03	0.0 0.333000E-04 0.235000E-06	0.0 0.134000E-02 0.258000E-06
NUCLIDE 1033	DY164	0.0 0.286000E-05 0.369000E-03 1 TB164 1.00000	0.0 0.900000E-05 0.0	0.0 0.113100E-02 0.318000E-03	0.0 0.252000E-04 0.259000E-05	0.0 0.199100E-02 0.288000E-06
NUCLIDE 1034	HO164	0.320901E-03 0.713000E-07 0.292000E-04	0.0 0.277000E-06 0.0	0.106760E 01 0.300000E-03 0.323000E-03	0.0 0.221000E-07 0.225000E-06	0.0 0.256000E-04 0.345000E-09
NUCLIDE 1035	ER164	0.0 0.380000E-07 0.127000E-04 1 HO164 0.53000	0.0 0.148000E-06 0.0	0.0 0.167000E-03 0.172000E-05	0.0 0.943000E-08 0.289000E-06	0.0 0.136000E-04 0.183000E-09
NUCLIDE 1036	PM165	0.112530E 01 0.0 0.0	0.0 0.0 0.0	0.799840E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 1037	SH165	0.345860E 00 0.0 0.0 1 PM165 1.00000	0.0 0.0 0.0	0.670320E 01 0.0 0.150000E-11	0.0 0.285000E-10 0.0	0.0 0.351000E-11 0.0
NUCLIDE 1038	EU165	0.823820E-01 0.998000E-11 0.988000E-10 1 SH165 1.00000	0.0 0.169000E-10 0.0	0.540730E 01 0.946000E-11 0.863000E-08	0.0 0.231000E-07 0.0	0.0 0.320000E-07 0.113000E-09
NUCLIDE 1039	GD165	0.132070E-01 0.683000E-08 0.167000E-08 1 EU165 1.00000	0.0 0.134000E-07 0.0	0.411080E 01 0.243000E-07 0.242000E-05	0.0 0.254000E-05 0.298000E-09	0.0 0.140000E-08 0.040000E-07
NUCLIDE 1040	TB165	0.103150E-02 0.262000E-08 0.148000E-04 1 GD165 1.00000	0.0 0.590000E-06 0.0	0.281420E 01 0.152000E-04 0.421000E-04	0.0 0.266000E-05 0.258000E-07	0.0 0.359000E-03 0.677000E-07
NUCLIDE 1041	DY165M	0.919781E-02 0.473000E-06 0.492000E-04 1 TB165 0.50000	0.0 0.117000E-05 0.0	0.108160E 00 0.132000E-03 0.464000E-04	0.0 0.238000E-05 0.2214000E-06	0.108160E 00 0.498000E-03 0.476000E-07
NUCLIDE 1042	DY165	0.819323E-04 0.935000E-08 0.872000E-04 1 TB165 0.50000	0.0 0.232000E-05 0.0	0.130000E 01 0.262000E-03 0.917000E-04	0.447000E 00 0.106000E-04 0.222000E-06	0.343000E-01 0.984000E-03 0.940000E-07
NUCLIDE 1043	HO165	0.0 0.110000E-05 0.140000E-03 1 DY165M 0.02400	0.0 0.280000E-05 0.0	0.0 0.617000E-03 0.981000E-04	0.0 0.108000E-04 0.197000E-06	0.0 0.109500E-02 0.964000E-07
NUCLIDE 1044	ER165	0.185850E-04 0.235000E-08 0.141000E-05 4 TH165 1.00000	0.0 0.788000E-08 0.0	0.0 0.333000E-04 0.338000E-07	0.0 0.980000E-10 0.242000E-07	0.0 0.970000E-04 0.191000E-11
NUCLIDE 1045	TH165	0.641803E-05 0.188000E-11 0.278000E-08	0.0 0.733000E-11 0.0	0.157000E 01 0.212000E-08 0.109000E-10	0.0 0.0 0.798000E-10	0.0 0.443000E-09 0.0
NUCLIDE 1046	SH166	0.312840E 00 0.0 0.0	0.0 0.0 0.0	0.542940E 01 0.206000E-08 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 1047	EU166	0.315500E 00 0.0 0.243000E-11 1 SH166 1.00000	0.0 0.0 0.0	0.755490E 01 0.348000E-05 0.113000E-09	0.0 0.229000E-08 0.0	0.0 0.942000E-09 0.390000E-11
NUCLIDE 1048	GD166	0.106530E-01 0.344000E-09 0.139000E-07 1 EU166 1.00000	0.0 0.904000E-09 0.0	0.284970E 01 0.307000E-03 0.141000E-06	0.0 0.271000E-06 0.251000E-11	0.0 0.137000E-05 0.192000E-08
NUCLIDE 1049	TB166	0.599020E-02 0.403000E-07 0.391000E-05 1 GD166 1.00000	0.0 0.123000E-06 0.0	0.497420E 01 0.204700E-02 0.941000E-05	0.0 0.366000E-05 0.209000E-08	0.0 0.105000E-03 0.379000E-07
NUCLIDE 1050	DY166	0.236246E-05 0.337000E-06 0.679000E-04 1 TB166 1.00000	0.0 0.115000E-05 0.0	0.482000E 00 0.287800E-02 0.506000E-04	0.119000E 00 0.050000E-05 0.118000E-06	0.813000E-01 0.627000E-03 0.899000E-07
NUCLIDE 1051	HO166M	0.183163E-10 0.197000E-11 0.409000E-07	0.0 0.356000E-06 0.0	0.185600E 01 0.147000E-04 0.767000E-05	0.160000E-01 0.435000E-06 0.255000E-06	0.179300E 01 0.110000E-03 0.308000E-08
NUCLIDE 1052	HO166	0.718436E-05 0.337000E-06 0.109000E-03 1 DY166 1.00000	0.0 0.151000E-05 0.0	0.184700E 01 0.289300E-02 0.283000E-04	0.878000E 00 0.119000E-05 0.273000E-06	0.531000E-01 0.737000E-03 0.930000E-07

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NUCLIDE 1053	ER166	0.0 0.337000E-06 0.132000E-03 1 HO166 1.00000	0.0 0.190000E-05 0.0 1 HO166 1.00000	0.0 0.290800E-02 0.663000E-02 1 HO166 1.00000	0.0 0.132000E-05 0.198000E-06 1 HO166 1.00000	0.0 0.854000E-03 0.964000E-07 1 HO166 1.00000
NUCLIDE 1054	TM166	0.249729E-04 0.137000E-10 0.545000E-07 4 YB166 1.00000	0.0 0.117000E-09 0.0 1 HO166 1.00000	0.304000E 01 0.545000E-11 0.600000E-09 1 HO166 1.00000	0.0 0.0 0.106000E-08 1 HO166 1.00000	0.0 0.119000E-07 0.0 1 HO166 1.00000
NUCLIDE 1055	YB166	0.337791E-05 0.0 0.175000E-10	0.0 0.0 0.0	0.300000E 00 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 1056	SM167	0.776300E 00 0.0 0.0	0.0 0.0 0.0	0.756590E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 1057	EU167	0.224420E 00 0.0 0.0 1 SM167 1.00000	0.0 0.0 0.0 1 SM167 1.00000	0.628280E 01 0.0 0.0 1 SM167 1.00000	0.0 0.0 0.0 1 SM167 1.00000	0.0 0.338000E-11 0.0 1 SM167 1.00000
NUCLIDE 1058	GD167	0.487610E-01 0.0 0.0 1 EU167 1.00000	0.0 0.0 0.0 1 EU167 1.00000	0.499890E 01 0.904000E-11 0.0 1 EU167 1.00000	0.0 0.0 0.0 1 EU167 1.00000	0.0 0.226000E-07 0.0 1 EU167 1.00000
NUCLIDE 1059	TB167	0.671110E-02 0.0 0.0 1 GD167 1.00000	0.0 0.0 0.0 1 GD167 1.00000	0.371450E 01 0.382000E-07 0.0 1 GD167 1.00000	0.0 0.0 0.0 1 GD167 1.00000	0.0 0.734000E-03 0.0 1 GD167 1.00000
NUCLIDE 1060	DY167	0.262556E-02 0.0 0.0 1 TB167 1.00000	0.0 0.0 0.0 1 TB167 1.00000	0.243000E 01 0.799000E-05 0.0 1 TB167 1.00000	0.0 0.0 0.0 1 TB167 1.00000	0.0 0.115000E-03 0.0 1 TB167 1.00000
NUCLIDE 1061	HO167	0.621100E-04 0.0 0.0 1 DY167 1.00000	0.0 0.0 0.0 1 DY167 1.00000	0.100000E 01 0.108000E-03 0.0 1 DY167 1.00000	0.203000E 00 0.0 0.0 1 DY167 1.00000	0.380000E 00 0.380000E-03 0.0 1 DY167 1.00000
NUCLIDE 1062	ER167M	0.301368E 00 0.0 0.0 1 HO167 0.05000	0.0 0.663000E-10 0.0 1 HO167 0.05000	0.207800E 00 0.632000E-04 0.0 1 HO167 0.05000	0.0 0.0 0.0 1 HO167 0.05000	0.207800E 00 0.282000E-04 0.0 1 HO167 0.05000
NUCLIDE 1063	ER167	0.0 0.0 0.0 1 HO167 0.95000	0.0 0.683000E-10 0.0 1 HO167 0.95000	0.0 0.216000E-03 0.0 1 HO167 0.95000	0.0 0.0 0.0 1 HO167 0.95000	0.0 0.368000E-03 0.0 1 HO167 0.95000
NUCLIDE 1064	TM167	0.862658E-06 0.0 0.0 4 YB167 1.00000	0.0 0.0 0.0 4 YB167 1.00000	0.116000E 01 0.799000E-05 0.0 4 YB167 1.00000	0.0 0.0 0.0 4 YB167 1.00000	0.0 0.175000E-04 0.0 4 YB167 1.00000
NUCLIDE 1065	YB167	0.660140E-02 0.0 0.0	0.0 0.0 0.0	0.196000E 01 0.381000E-07 0.0	0.0 0.0 0.0	0.0 0.656000E-10 0.0
NUCLIDE 1066	SM168	0.678100E 00 0.0 0.0	0.0 0.0 0.0	0.629270E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 1067	EU168	0.873090E 00 0.0 0.0 1 SM168 1.00000	0.0 0.0 0.0 1 SM168 1.00000	0.841070E 01 0.0 0.0 1 SM168 1.00000	0.0 0.0 0.0 1 SM168 1.00000	0.0 0.0 0.0 1 SM168 1.00000
NUCLIDE 1068	GD168	0.442240E-01 0.0 0.0 1 EU168 1.00000	0.0 0.0 0.0 1 EU168 1.00000	0.373850E 01 0.0 0.0 1 EU168 1.00000	0.0 0.0 0.0 1 EU168 1.00000	0.0 0.221000E-09 0.0 1 EU168 1.00000
NUCLIDE 1069	TB168	0.281180E-01 0.0 0.0 1 GD168 1.00000	0.0 0.0 0.0 1 GD168 1.00000	0.385500E 01 0.112000E-08 0.0 1 GD168 1.00000	0.0 0.0 0.0 1 GD168 1.00000	0.0 0.368000E-06 0.0 1 GD168 1.00000
NUCLIDE 1070	DY168	0.105530E-03 0.0 0.0 1 TB168 1.00000	0.0 0.0 0.0 1 TB168 1.00000	0.118180E 01 0.766000E-06 0.0 1 TB168 1.00000	0.0 0.0 0.0 1 TB168 1.00000	0.0 0.324000E-04 0.0 1 TB168 1.00000
NUCLIDE 1071	HO168	0.385082E-02 0.0 0.0 1 DY168 1.00000	0.0 0.0 0.0 1 DY168 1.00000	0.330000E 01 0.294000E-04 0.0 1 DY168 1.00000	0.0 0.0 0.0 1 DY168 1.00000	0.0 0.157000E-03 0.0 1 DY168 1.00000
NUCLIDE 1072	ER168	0.0 0.0 0.0 1 HO168 1.00000	0.0 0.0 0.0 1 HO168 1.00000	0.0 0.123000E-03 0.0 1 HO168 1.00000	0.0 0.0 0.0 1 HO168 1.00000	0.0 0.199000E-03 0.0 1 HO168 1.00000
NUCLIDE 1073	TM168	0.861712E-01 0.0 0.0	0.0 0.0 0.0	0.172000E 01 0.173000E-04 0.0	0.0 0.0 0.0	0.0 0.954000E-06 0.0
NUCLIDE 1074	YB168	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.263000E-06 0.0	0.0 0.0 0.0	0.0 0.120000E-08 0.0

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NUCLIDE 1075	EU169	0.526900E 00	0.0	0.713930E 01	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
NUCLIDE 1076	GD169	0.142240E 00	0.0	0.586810E 01	0.0	0.0
		0.0	0.0	0.0	0.0	0.342000E-11
		0.0	0.0	0.0	0.0	0.0
	1 EU169	1.00000				
NUCLIDE 1077	TB169	0.278230E-01	0.0	0.459600E 01	0.0	0.0
		0.0	0.0	0.365000E-10	0.0	0.168000E-07
		0.0	0.0	0.0	0.0	0.0
	1 GD169	1.00000				
NUCLIDE 1078	DY169	0.319420E-02	0.0	0.392370E 01	0.0	0.0
		0.0	0.0	0.837000E-07	0.0	0.408000E-05
		0.0	0.0	0.0	0.0	0.0
	1 TB169	1.00000				
NUCLIDE 1079	HO169	0.245797E-02	0.0	0.210000E 01	0.200000E 00	0.713000E 00
		0.0	0.0	0.983000E-05	0.0	0.624000E-04
		0.0	0.0	0.0	0.0	0.0
	1 DY169	1.00000				
NUCLIDE 1080	ER169	0.862638E-06	0.0	0.340000E 00	0.979000E-01	0.336000E-02
		0.0	0.0	0.822000E-04	0.0	0.128000E-05
		0.0	0.0	0.0	0.0	0.0
	1 HO169	1.00000				
NUCLIDE 1081	TM169	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.128000E-03	0.0	0.134000E-03
		0.0	0.0	0.0	0.0	0.0
	1 ER169	1.00000		4 YB169	1.00000	
NUCLIDE 1082	YB169M	0.130684E-01	0.0	0.263000E-01	0.0	0.263000E-01
		0.0	0.0	0.103000E-05	0.0	0.166000E-07
		0.0	0.0	0.0	0.0	0.0
NUCLIDE 1083	YB169	0.258792E-06	0.0	0.130000E 01	0.0	0.0
		0.0	0.0	0.207000E-05	0.0	0.333000E-07
		0.0	0.0	0.0	0.0	0.0
	2 YB169M	1.00000		4 LU169	1.00000	
NUCLIDE 1084	LU169M	0.427869E-02	0.0	0.290000E-01	0.0	0.290000E-01
		0.0	0.0	0.273000E-08	0.0	0.459000E-11
		0.0	0.0	0.0	0.0	0.0
NUCLIDE 1085	LU169	0.534836E-05	0.0	0.226000E 01	0.0	0.0
		0.0	0.0	0.590000E-08	0.0	0.919000E-11
		0.0	0.0	0.0	0.0	0.0
	2 LU169M	1.00000				
NUCLIDE 1086	SM170	0.151150E 01	0.0	0.713640E 01	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
NUCLIDE 1087	EU170	0.214710E 01	0.0	0.924770E 01	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
	1 SM170	1.00000				
NUCLIDE 1088	GD170	0.132410E 00	0.0	0.440820E 01	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
	1 EU170	1.00000				
NUCLIDE 1089	TB170	0.103480E 00	0.0	0.671710E 01	0.0	0.0
		0.0	0.0	0.0	0.0	0.430000E-09
		0.0	0.0	0.0	0.0	0.0
	1 GD170	1.00000				
NUCLIDE 1090	DY170	0.202490E-02	0.0	0.207620E 01	0.0	0.0
		0.0	0.0	0.433000E-08	0.0	0.342000E-06
		0.0	0.0	0.0	0.0	0.0
	2 TB170	1.00000				
NUCLIDE 1091	HO170	0.157533E-01	0.0	0.420000E 01	0.0	0.0
		0.0	0.0	0.164000E-05	0.0	0.150000E-04
		0.0	0.0	0.0	0.0	0.0
	1 DY170	1.00000				
NUCLIDE 1092	ER170	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.370000E-04	0.0	0.587000E-04
		0.0	0.0	0.0	0.0	0.0
	1 HO170	1.00000		4 TM170	0.00200	
NUCLIDE 1093	TM170	0.421902E-07	0.0	0.967000E 00	0.320000E 00	0.186000E-01
		0.0	0.0	0.576000E-04	0.0	0.114000E-04
		0.0	0.0	0.0	0.0	0.0
NUCLIDE 1094	YB170	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.653000E-04	0.0	0.116000E-04
		0.0	0.0	0.0	0.0	0.0
	1 TM170	0.99800				
NUCLIDE 1095	GD171	0.351100E 00	0.0	0.671830E 01	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0
NUCLIDE 1096	TB171	0.877790E-01	0.0	0.545890E 01	0.0	0.0
		0.0	0.0	0.0	0.0	0.225000E-11
		0.0	0.0	0.0	0.0	0.0
	1 GD171	1.00000				

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NUCLIDE 1097	DY171	0.152100E-01 0.0 0.0 1	0.0 0.0 0.0 1	0.419870E 01 0.146000E-10 0.0	0.0 0.0 0.0	0.0 0.814000E-08 0.0
NUCLIDE 1098	HO171	0.140160E-02 0.0 0.0 1	0.0 0.0 0.0 1	0.293800E 01 0.247000E-07 0.0	0.0 0.0 0.0	0.0 0.147000E-03 0.0
NUCLIDE 1099	ER171	0.256721E-04 0.0 0.0 1	0.0 0.0 0.0 1	0.149000E 01 0.218000E-03 0.0	0.255000E 00 0.0 0.0	0.455000E 00 0.176000E-04 0.0
NUCLIDE 1100	TM171	0.114477E-07 0.0 0.0 1	0.0 0.0 0.0 1	0.980000E-01 0.145000E-04 0.0	0.260000E-01 0.0 0.0	0.136000E-02 0.319000E-04 0.0
NUCLIDE 1101	YB171	0.0 0.0 0.0 1	0.0 0.0 0.0 1	0.0 0.206000E-04 0.0	0.0 0.0 0.0	0.0 0.328000E-04 0.0
NUCLIDE 1102	LU171M	0.888650E-02 0.0 0.0 1	0.0 0.0 0.0 1	0.712000E-01 0.110000E-06 0.0	0.0 0.0 0.0	0.712000E-01 0.205000E-08 0.0
NUCLIDE 1103	LU171	0.978358E-06 0.0 0.0 2	0.0 0.0 0.0 2	0.160000E 01 0.209000E-06 0.0	0.0 0.0 0.0	0.0 0.411000E-08 0.0
NUCLIDE 1104	HF171	0.137529E-04 0.0 0.0 1	0.0 0.0 0.0 1	0.336020E 01 0.411000E-09 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 1105	GD172	0.321800E 00 0.0 0.0 1	0.0 0.0 0.0 1	0.345880E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 1106	YB172	0.317810E 00 0.0 0.0 1	0.0 0.0 0.0 1	0.756070E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
NUCLIDE 1107	DY172	0.128110E-01 0.0 0.0 1	0.0 0.0 0.0 1	0.295170E 01 0.0 0.0	0.0 0.0 0.0	0.0 0.106000E-08 0.0
NUCLIDE 1108	HO172	0.493990E-02 0.0 0.0 1	0.0 0.0 0.0 1	0.503200E 01 0.450000E-09 0.0	0.0 0.0 0.0	0.0 0.624000E-06 0.0
NUCLIDE 1109	ER172	0.392941E-03 0.0 0.0 1	0.0 0.0 0.0 1	0.910000E 00 0.170000E-06 0.0	0.220000E 00 0.0 0.0	0.506000E 00 0.209000E-04 0.0
NUCLIDE 1110	TM172	0.302737E-05 0.0 0.0 1	0.0 0.0 0.0 1	0.188000E 01 0.382000E-03 0.0	0.256000E 00 0.0 0.0	0.627000E 00 0.489000E-04 0.0
NUCLIDE 1111	YB172	0.0 0.0 0.0 1	0.0 0.0 0.0 1	0.0 0.104000E-04 0.0	0.0 0.0 0.0	0.0 0.786000E-04 0.0
NUCLIDE 1112	LU172M	0.288811E-02 0.0 0.0 1	0.0 0.0 0.0 1	0.418600E-01 0.406000E-06 0.0	0.0 0.0 0.0	0.418600E-01 0.630000E-07 0.0
NUCLIDE 1113	LU172	0.119739E-05 0.0 0.0 2	0.0 0.0 0.0 2	0.270000E 01 0.819000E-06 0.0	0.0 0.0 0.0	0.0 0.126000E-06 0.0
NUCLIDE 1114	HF172	0.439591E-08 0.0 0.0 1	0.0 0.0 0.0 1	0.100000E 01 0.697000E-08 0.0	0.0 0.0 0.0	0.0 0.867000E-10 0.0

Appendix B Program "MYSKI" for the Estimation of Disintegration Energy and Decay Constant of Beta-Decay

```

B.1 Program List
DIMENSION GM(8)
DIMENSION ZNAME(102)
DATA GM/1.0,0.14,0.0,0.0,0.0,0.0,0.0,0.0/
DATA A1/A2/C3/L4/SK/CL/CM/ABR/13.677,16.34,0.717,1.21129,1.79
* 5.810,26.10,277
DATA AMN/AMV/5.07144,7.28899/
DATA ZNAME/2MH,2HHE,2HLL,2HBE,2HB,2HC,2HH,2HO,2HF,2HNE,
1 2HNA,2HMG,2HAL,2HBI,2HP,2HJ,2HCL,2HAM,2HKA,2HCA,
2 2HSL,2HTI,2HV,2HCH,2HMN,2HFE,2HCD,2HNI,2HCU,2HGN,
3 2HGE,2HGE,2HAG,2HSE,2HBN,2HAR,2HIN,2HGM,2HY,2HGA,
4 2HNB,2HMO,2HIC,2HPU,2HRR,2HBD,2HAG,2HCD,2HIN,2HBN,
5 2HSG,2HTE,2H,2HKE,2HCS,2HDA,2HLA,2HCE,2HFK,2HNU,
6 2HFM,2HSH,2HEU,2HGU,2HTR,2HUY,2HFO,2HER,2HTM,2HYB,
7 2HLU,2HMF,2HTA,2HKA,2HKK,2HUS,2HKK,2HPT,2HAU,2HGU,
8 2HIL,2HBD,2HBI,2HPU,2HAT,2HIN,2HFR,2HRA,2HCC,2HTM,
9 2HFA,2HU,2HNP,2HPU,2HAM,2HCH,2HBA,2HCF,2HES,2HFM,2HNU,2HNU/
200 FORMAT(1X,2I4,8E12.5)
210 FORMAT(12I5,6U1,2I3)
215 FORMAT(12I6)
811 FORMAT(12(A2,4A))
812 FORMAT(10(A2,13,1X,E12.5,5X,2,13,2H 13)
813 FORMAT(12,13,1X,E12.5,5X,2,13,2H 13)
814 FORMAT(11,11,1X,E12.5,5X,2,13,2H 13)
1 15H M(1,1) (MEV) , 15H M(1,2) (MEV) , 14H M(2,1)-M(1,1)
2 15H M(2,2)-M(1,1) , 15H LAMDA(1/SEC) // )
815 FORMAT(9X,12,1X,12,1J,6E15.2)
816 FORMAT(1HU)
WRITE(6,014)
2000 CONTINUE
READ(5,215)END=3000) I,KZL,KAM
A=1
BMAS=0.0
DO 1000 K=KZL,KAM
Z=K
CMAS=BMAS
1500 CONTINUE
L=Z
SN=Z
AN=Z
C1=(1.0-SK*(1.0-L)/A)**2 3*A1
C2=C1*A2/A1
DELTA=0.0
IF (MOD(1,2)) JU=301,300
301 IF (MOD(1,2).EQ.0) DELTA=-1.0/A**0.5
IF (MOD(1,2).NE.0) DELTA=1.0/A**0.5
300 CONTINUE
A2=(AMN-AN)*A**2 -C1*A -C2*A**2/(1.0) +C3**2/A**2/(1.0)
* -C4**2/A**2*DELTA
C SHELLEFFECT CALCULATION
DO 310 JN=0,8
IF (AN,GE,GM(JN-1)).AND.(AN,LE,GM(JN)) GO TO 315
310 CONTINUE
DO 320 J=0,8
IF (L,GE,GM(J-1)).AND.(L,LE,GM(J)) GO TO 325
320 CONTINUE
325
GM(J)=GM(JN)**(2./3.)-GM(JN-1)**(2./3.) 7/(GM(JN)-GM(JN-1))*(3./5.)
GM(J)=GM(JN)**(2./3.)-GM(JN-1)**(2./3.) 7/(GM(JN)-GM(JN-1))*(3./5.)
FN=GM(JN)-GM(JN-1)-(AN**2./3.)-GM(JN-1)**(2./3.)*(3./5.)
FZ=GM(JN)-GM(JN-1)-(L**2./3.)-GM(JN-1)**(2./3.)*(3./5.)
SN=GM(JN)-GM(JN-1)-(L**2./3.)-GM(JN-1)**(2./3.)*(3./5.)
SN=SN*(FZ/FN)**(1./3.)-GM(JN-1)**(2./3.)*(3./5.)
SN=SN*(FZ/FN)**(1./3.)-GM(JN-1)**(2./3.)*(3./5.)
IF (SN,LE,0.0) GO TO 410
X=(Z**2/A)*(L+0.5/C2)
SCH=2.0+C2*ADR**2*(1.0-U-X)
AMAS=A2*(SCH-SLR)*ALOG(SN/SCH)
GO TO 420
410 AMAS=A2*(SCH-SLR)
420 CONTINUE
IF (Z,NE,FLUAT(K)) GO TO 400
BMAS=AMAS
Z=K+1
GO TO 1300
400 CONTINUE
IF (K,EQ,KZL)CMAS=BMAS
DMAS=BMAS-AMAS
RAMD=0.0
DO 510 J=1,2
IF (J,EQ,1) DMAS=DMAS-CMAS
IF (DMAS,LE,0.0) GO TO 520
IF (1,GT,110) GO TO 500
IF (MOD(1,2).EQ.0) GO TO 505
SLUPE=0.495
CONST=0.046
GO TO 600
505 IF (MOD(1,2).NE.0) GO TO 510
SLUPE=0.530
CONST=0.237
GO TO 600
510 SLUPE=0.373
CONST=0.351
GO TO 600
500 IF (MOD(1,2).EQ.0) GO TO 515
SLUPE=0.078
CONST=0.979
GO TO 600
515 IF (MOD(1,2).NE.0) GO TO 520
SLUPE=0.243
CONST=0.397
SLUPE=0.440
CONST=0.30
GO TO 600
520 SLUPE=0.485
CONST=0.831
SLUPE=0.43
CONST=0.37
600 CONTINUE
DMAS(DMAS)
RAMS=SLUPE*ALOG(1.0/DMAS)+CONST
RAMS=10.0**RAMS
RAMS=10.0**RAMS
RAMS=0.0
RAMD=RAMD+RAMS
610 CONTINUE
816BMAS=AMAS
816CMAS=CMAS
WRITE(6,815) A,ZNAME(K),I,CMAS,DMAS,AMAS,01,02,RAMD
WRITE(7,815) ZNAME(K),I,RAMD,ZNAME(K),I
1000 CONTINUE
WRITE(6,816)
GO TO 2000
3000 STOP
END

```

MYSKI 1
MYSKI 2
MYSKI 3
MYSKI 4
MYSKI 5
MYSKI 6
MYSKI 7
MYSKI 8
MYSKI 9
MYSKI 10
MYSKI 11
MYSKI 12
MYSKI 13
MYSKI 14
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MYSKI 112
MYSKI 113
MYSKI 114
MYSKI 115
MYSKI 116
MYSKI 117
MYSKI 118
MYSKI 119
MYSKI 120
MYSKI 121
MYSKI 122
MYSKI 123

B.2 Input Format

(I, KZL, KZH) (3I6)

I = Mass Number
 KZL = Lowest Atomic Number for the Mass Number I
 KZH = Highest Atomic Number for the Mass Number I

repeat arbitrarily

B.3 Input Example of "MYSKI"

```
133 46 60
134 46 60
135 46 60
```

B.4 Output Example of "MYSKI"

Z	A	M(A,Z-1) (MEV)	M(A,Z) (MEV)	M(A,Z+1) (MEV)	M(4)-M(Z+1)	M(2)-M(Z-1)	LAMMBA(1/SEC)
46	PD133	-0.13823E 02	-0.15822E 02	-0.29726E 02	0.25903E 02	0.0	0.11078E 03
47	AG133	-0.13823E 02	-0.29726E 02	-0.44188E 02	0.14466E 02	-0.15903E 02	0.58762E 02
48	CO133	-0.29726E 02	-0.44188E 02	-0.57210E 02	0.13022E 02	-0.14462E 02	0.29156E 02
49	IN133	-0.44188E 02	-0.57210E 02	-0.68790E 02	0.11581E 02	-0.13022E 02	0.13324E 02
50	SN133	-0.57210E 02	-0.68790E 02	-0.77223E 02	0.84328E 01	-0.11581E 02	0.16019E 01
51	SB133	-0.68790E 02	-0.77223E 02	-0.82171E 02	0.49481E 01	-0.84328E 01	0.45549E-01
52	TE133	-0.77223E 02	-0.82171E 02	-0.85678E 02	0.35066E 01	-0.49481E 01	0.45680E-02
53	I 133	-0.82171E 02	-0.85678E 02	-0.87743E 02	0.20648E 01	-0.35066E 01	0.15296E-03
54	XE133	-0.85678E 02	-0.87743E 02	-0.88365E 02	0.82289E 00	-0.20648E 01	0.44471E-07
55	CS133	-0.87743E 02	-0.88365E 02	-0.87694E 02	-0.67110E 00	-0.82289E 00	0.0
56	BA133	-0.88365E 02	-0.87694E 02	-0.85405E 02	-0.22892E 01	0.67110E 00	0.73164E-07
57	LA133	-0.87694E 02	-0.85405E 02	-0.82205E 02	-0.51998E 01	0.22892E 01	0.26486E-03
58	CE133	-0.85405E 02	-0.82205E 02	-0.77672E 02	-0.45330E 01	0.51998E 01	0.24786E-02
59	PR133	-0.82205E 02	-0.77672E 02	-0.71701E 02	-0.59711E 01	0.45330E 01	0.25370E-01
60	ND133	-0.77672E 02	-0.71701E 02	-0.64250E 02	-0.74517E 01	0.59711E 01	0.15976E 00
46	PD134	-0.87479E 01	-0.87479E 01	-0.22686E 02	0.13938E 02	0.0	0.63552E 01
47	AG134	-0.87479E 01	-0.22686E 02	-0.39493E 02	0.16807E 02	-0.13938E 02	0.61023E 02
48	CO134	-0.22686E 02	-0.39493E 02	-0.51068E 02	0.11574E 02	-0.16807E 02	0.27744E 01
49	IN134	-0.39493E 02	-0.51068E 02	-0.65010E 02	0.13943E 02	-0.11574E 02	0.12581E 02
50	SN134	-0.51068E 02	-0.65010E 02	-0.72021E 02	0.70108E 01	-0.13943E 02	0.29657E 00
51	SB134	-0.65010E 02	-0.72021E 02	-0.81400E 02	0.93788E 01	-0.70108E 01	0.44122E 00
52	TE134	-0.72021E 02	-0.81400E 02	-0.83012E 02	0.21116E 01	-0.93788E 01	0.14054E-02
53	I 134	-0.81400E 02	-0.83012E 02	-0.87991E 02	0.44793E 01	-0.21116E 01	0.85655E-03
54	XE134	-0.83012E 02	-0.87991E 02	-0.87236E 02	-0.75510E 00	-0.44793E 01	0.0
55	CS134	-0.87991E 02	-0.87236E 02	-0.91234E 02	0.39982E 01	0.75510E 00	0.32790E-03
56	BA134	-0.87236E 02	-0.91234E 02	-0.85226E 02	-0.60082E 01	-0.39982E 01	0.0
57	LA134	-0.91234E 02	-0.85226E 02	-0.84271E 02	-0.95506E 00	0.60082E 01	0.10242E-01
58	CE134	-0.85226E 02	-0.84271E 02	-0.78341E 02	-0.59295E 01	0.95506E 00	0.40825E-04
59	PR134	-0.84271E 02	-0.78341E 02	-0.74829E 02	-0.35118E 01	0.59295E 01	0.91621E-02
60	ND134	-0.78341E 02	-0.74829E 02	-0.66005E 02	-0.87645E 01	0.35118E 01	0.15585E-01
46	PD135	-0.67489E 00	-0.67489E 00	-0.17435E 02	0.16760E 02	0.0	0.15732E 03
47	AG135	-0.67489E 00	-0.17435E 02	-0.32781E 02	0.15346E 02	-0.16760E 02	0.87303E 02
48	CO135	-0.17435E 02	-0.32781E 02	-0.46703E 02	0.13922E 02	-0.15346E 02	0.45563E 02
49	IN135	-0.32781E 02	-0.46703E 02	-0.59201E 02	0.12498E 02	-0.13922E 02	0.22164E 02
50	SN135	-0.46703E 02	-0.59201E 02	-0.68584E 02	0.93836E 01	-0.12498E 02	0.32695E 01
51	SB135	-0.59201E 02	-0.68584E 02	-0.76543E 02	0.79591E 01	-0.93836E 01	0.10888E 01
52	TE135	-0.68584E 02	-0.76543E 02	-0.83078E 02	0.65344E 01	-0.79591E 01	0.29165E 00
53	I 135	-0.76543E 02	-0.83078E 02	-0.86164E 02	0.30862E 01	-0.65344E 01	0.19472E-02
54	XE135	-0.83078E 02	-0.86164E 02	-0.87825E 02	0.16612E 01	-0.30862E 01	0.31113E-04
55	CS135	-0.86164E 02	-0.87825E 02	-0.88061E 02	0.23583E 00	-0.16612E 01	0.67795E-10
56	BA135	-0.87825E 02	-0.88061E 02	-0.87222E 02	-0.83918E 00	-0.23583E 00	0.0
57	LA135	-0.88061E 02	-0.87222E 02	-0.84313E 02	-0.29089E 01	0.83918E 00	0.32546E-06
58	CE135	-0.87222E 02	-0.84313E 02	-0.80713E 02	-0.36003E 01	0.29089E 01	0.13115E-02
59	PR135	-0.84313E 02	-0.80713E 02	-0.75627E 02	-0.48854E 01	0.36003E 01	0.54476E-02
60	ND135	-0.80713E 02	-0.75627E 02	-0.69532E 02	-0.62956E 01	0.48854E 01	0.41829E-01

* END OF FORTRAN *

Appendix C Neutron Capture Cross Sections of 59 FP Nuclides

C.1 Neutron Capture Cross Sections (ABBN-type) of Each Fission-Product Nuclide for the Fast Reactor

GROUP	SE 79	KR 85	KR 87	SR 90	ZR 93
1	0.87310E-03	0.38429E-03	0.0	0.42063E-03	0.12874E-03
2	0.26683E-02	0.97644E-03	0.0	0.12105E-02	0.37981E-03
3	0.60040E-02	0.20928E-02	0.0	0.24998E-02	0.85090E-03
4	0.10163E-01	0.46158E-02	0.0	0.60393E-02	0.22643E-02
5	0.14732E-01	0.11118E-01	0.0	0.43962E-02	0.97785E-02
6	0.26797E-01	0.14636E-01	0.0	0.34160E-02	0.15098E-01
7	0.52599E-01	0.20247E-01	0.0	0.37894E-02	0.19920E-01
8	0.10294E 00	0.41903E-01	0.0	0.43975E-02	0.26907E-01
9	0.17856E 00	0.67372E-01	0.0	0.58506E-02	0.43692E-01
10	0.28510E 00	0.12578E 00	0.0	0.10556E-01	0.86372E-01
11	0.46193E 00	0.22493E 00	0.0	0.21035E-01	0.16272E 00
12	0.78856E 00	0.37946E 00	0.0	0.38223E-01	0.28580E 00
13	0.15708E 01	0.71040E 00	0.0	0.30375E-03	0.46085E 00
14	0.31414E 01	0.96522E 00	0.0	0.65198E-03	0.80225E 00
15	0.58065E 01	0.96064E 00	0.0	0.18498E-02	0.20431E 01
16	0.12310E 02	0.34846E 01	0.0	0.42394E-02	0.15474E 02
17	0.30874E 02	0.11638E-01	0.0	0.80875E-02	0.28371E 02
18	0.75632E 00	0.30942E-01	0.0	0.13586E-01	0.33261E 00
19	0.29753E 00	0.86474E-01	0.0	0.21349E-01	0.83530E-01
20	0.67592E 00	0.19620E 00	0.0	0.32272E-01	0.94694E-01
21	0.14629E 01	0.37304E 00	0.0	0.48033E-01	0.12839E 00
22	0.27453E 01	0.62923E 00	0.0	0.71155E-01	0.18341E 00
23	0.45883E 01	0.98751E 00	0.0	0.10476E 00	0.26592E 00
24	0.71815E 01	0.14928E 01	0.0	0.15389E 00	0.38796E 00
25	0.10889E 02	0.22315E 01	0.0	0.22625E 00	0.56871E 00

GROUP	MO 95	MO 97	TC 99	RU100	RU101
1	0.10584E-02	0.42637E-03	0.12429E-02	0.66724E-02	0.58800E-02
2	0.30238E-02	0.12634E-02	0.58529E-02	0.16001E-01	0.20529E-01
3	0.69689E-02	0.31344E-02	0.97908E-02	0.46516E-01	0.54186E-01
4	0.17047E-01	0.84201E-02	0.21571E-01	0.60889E-01	0.12145E 00
5	0.43426E-01	0.33939E-01	0.34935E-01	0.69219E-01	0.25566E 00
6	0.76666E-01	0.61509E-01	0.76890E-01	0.14620E 00	0.51648E 00
7	0.11036E 00	0.82322E-01	0.14006E 00	0.18961E 00	0.92365E 00
8	0.15209E 00	0.10567E 00	0.23842E 00	0.20258E 00	0.15933E 01
9	0.21727E 00	0.16761E 00	0.41530E 00	0.28628E 00	0.22895E 01
10	0.40486E 00	0.33339E 00	0.71594E 00	0.50251E 00	0.26115E 01
11	0.63922E 00	0.63853E 00	0.11262E 01	0.80241E 00	0.27681E 01
12	0.93562E 00	0.19726E 01	0.15774E 01	0.11330E 01	0.29704E 01
13	0.11887E 01	0.10443E 01	0.13667E 01	0.18125E 01	0.18090E 01
14	0.14164E 01	0.12242E 01	0.19169E 01	0.25489E 01	0.23272E 01
15	0.22489E 01	0.22743E 01	0.35370E 01	0.53801E 01	0.532234E 01
16	0.31744E 01	0.26189E 01	0.54886E 01	0.68871E 01	0.45864E 01
17	0.14672E 01	0.96811E-02	0.15568E 02	0.31187E 02	0.47639E 01
18	0.15153E 02	0.90562E 01	0.29245E 01	0.11534E 00	0.21670E 02
19	0.10355E 03	0.33409E-01	0.76138E 01	0.10890E 00	0.14550E 02
20	0.68891E 00	0.46625E-01	0.22970E 02	0.17862E 00	0.42209E 02
21	0.84582E 00	0.89184E-01	0.17179E 03	0.29668E 00	0.46086E 00
22	0.12501E 01	0.15967E 00	0.11870E 02	0.46237E 00	0.45275E 00
23	0.18696E 01	0.26141E 00	0.47604E 01	0.70256E 00	0.63214E 00
24	0.27163E 01	0.40529E 00	0.21701E 01	0.10480E 01	0.92739E 00
25	0.41062E 01	0.61174E 00	0.67833E 01	0.15523E 01	0.13699E 01

GROUP	RU102	RH103	RU104	RH104	RH105
1	0.30227E-02	0.20322E-02	0.49720E-03	0.0	0.32633E-03
2	0.14403E-01	0.82978E-02	0.27297E-02	0.0	0.12055E-02
3	0.41480E-01	0.22515E-01	0.92630E-02	0.0	0.35635E-02
4	0.58857E-01	0.47259E-01	0.15661E-01	0.0	0.77514E-02
5	0.57262E-01	0.74625E-01	0.14770E-01	0.0	0.15521E-01
6	0.71712E-01	0.13789E 00	0.16477E-01	0.0	0.36608E-01
7	0.92499E-01	0.22941E 00	0.25786E-01	0.0	0.66154E-01
8	0.12044E 00	0.38656E 00	0.43683E-01	0.0	0.10964E 00
9	0.18448E 00	0.57500E 00	0.78950E-01	0.0	0.18981E 00
10	0.33974E 00	0.79075E 00	0.14855E 00	0.0	0.33020E 00
11	0.55044E 00	0.11456E 01	0.25716E 00	0.0	0.52497E 00
12	0.79790E 00	0.16436E 01	0.40011E 00	0.0	0.76828E 00
13	0.12639E 01	0.10163E 01	0.35721E 00	0.0	0.73367E 00
14	0.19390E 01	0.15368E 01	0.12219E 01	0.0	0.11802E 01
15	0.38788E 01	0.34756E 01	0.36415E 01	0.0	0.22980E 01
16	0.40104E 00	0.81411E 01	0.44006E 00	0.0	0.33511E 01
17	0.35429E 01	0.97778E 01	0.60356E-02	0.0	0.42689E 01
18	0.10226E-01	0.12377E 01	0.78301E-02	0.0	0.79500E 01
19	0.19776E-01	0.89366E 00	0.11753E-01	0.0	0.15193E 02
20	0.38089E-01	0.16535E 00	0.17686E-01	0.0	0.15069E 00
21	0.66109E-01	0.75578E 00	0.26361E-01	0.0	0.39187E 00
22	0.10639E 00	0.88750E 01	0.39084E-01	0.0	0.24463E 01
23	0.16312E 00	0.11253E 04	0.57587E-01	0.0	0.15104E 02
24	0.24433E 00	0.16753E 03	0.84587E-01	0.0	0.22156E 03
25	0.36258E 00	0.72667E 02	0.12439E 00	0.0	0.46412E 03

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GROUP	PD105	RU106	PD107	PD108	AG109
1	0.93350E-03	0.30346E-03	0.92470E-03	0.33289E-03	0.10953E-02
2	0.34505E-02	0.16442E-02	0.41151E-02	0.18998E-02	0.44866E-02
3	0.96847E-02	0.54425E-02	0.24342E-01	0.67526E-02	0.36461E-01
4	0.22187E-01	0.87395E-02	0.50035E-01	0.12124E-01	0.71812E-01
5	0.44424E-01	0.11013E-01	0.77016E-01	0.12469E-01	0.89303E-01
6	0.10478E 00	0.22086E-01	0.12085E 00	0.15966E-01	0.13432E 00
7	0.18935E 00	0.27663E-01	0.19418E 00	0.23692E-01	0.21192E 00
8	0.31783E 00	0.29184E-01	0.31285E 00	0.35331E-01	0.33324E 00
9	0.50722E 00	0.42301E-01	0.48810E 00	0.58560E-01	0.50261E 00
10	0.76127E 00	0.79926E-01	0.70817E 00	0.10523E 00	0.71394E 00
11	0.10448E 01	0.13937E 00	0.97311E 00	0.17216E 00	0.10218E 01
12	0.13603E 01	0.22739E 00	0.13223E 01	0.25828E 00	0.15107E 01
13	0.11008E 01	0.57877E 00	0.10728E 01	0.39014E 00	0.15560E 01
14	0.15680E 01	0.44110E 00	0.16055E 01	0.71044E 00	0.25119E 01
15	0.24625E 01	0.74985E-03	0.26046E 01	0.14586E 01	0.67364E 01
16	0.25509E 01	0.95971E-03	0.43444E 01	0.59401E-01	0.71025E 01
17	0.74957E 01	0.15509E-02	0.65308E 01	0.21274E 01	0.17915E 02
18	0.19323E 02	0.24526E-02	0.10792E 02	0.37139E 02	0.33602E 02
19	0.15390E 02	0.37618E-02	0.18312E 02	0.22697E 03	0.40270E 02
20	0.40419E 02	0.56270E-02	0.20508E 02	0.11656E 01	0.18476E 01
21	0.63477E 00	0.83397E-02	0.21761E 02	0.95471E 00	0.16029E 04
22	0.40782E 00	0.12325E-01	0.69180E 00	0.41639E 01	0.12152E 03
23	0.67476E 00	0.18114E-01	0.98167E 00	0.17195E 01	0.23612E 02
24	0.13140E 01	0.26593E-01	0.15862E 01	0.23880E 01	0.23635E 02
25	0.24301E 01	0.39088E-01	0.25014E 01	0.34536E 01	0.30026E 02

GROUP	CD113	IN115	SB121	SB123	I 127
1	0.35096E-03	0.29421E-03	0.70101E-03	0.26819E-03	0.73065E-03
2	0.12896E-02	0.11408E-02	0.26327E-02	0.50682E-03	0.88875E-02
3	0.43263E-02	0.36542E-02	0.89009E-02	0.17330E-02	0.27014E-01
4	0.16481E-01	0.16255E-01	0.36580E-01	0.11416E-01	0.51217E-01
5	0.35381E-01	0.15749E 00	0.83074E-01	0.54649E-01	0.68640E-01
6	0.64098E-01	0.23309E 00	0.10734E 00	0.71046E-01	0.11101E 00
7	0.94912E-01	0.27534E 00	0.14856E 00	0.92132E-01	0.18089E 00
8	0.13472E 00	0.33052E 00	0.21533E 00	0.12814E 00	0.29001E 00
9	0.19809E 00	0.45545E 00	0.33679E 00	0.19971E 00	0.46773E 00
10	0.31400E 00	0.72595E 00	0.54967E 00	0.34120E 00	0.73564E 00
11	0.47590E 00	0.11790E 01	0.83127E 00	0.54538E 00	0.10376E 01
12	0.74124E 00	0.13870E 01	0.11721E 01	0.83556E 00	0.14412E 01
13	0.85342E 00	0.89338E 00	0.11073E 01	0.92754E 00	0.12715E 01
14	0.14089E 01	0.13336E 01	0.16802E 01	0.17418E 01	0.23005E 01
15	0.30128E 01	0.20409E 01	0.28650E 01	0.35670E 01	0.34541E 01
16	0.57927E 01	0.31069E 01	0.50492E 01	0.63182E 01	0.60006E 01
17	0.10069E 02	0.49618E 01	0.19574E 02	0.10853E 02	0.16858E 02
18	0.98978E 01	0.61054E 01	0.10810E 02	0.64784E 01	0.29995E 02
19	0.46379E 00	0.10843E 02	0.14061E 02	0.27801E 02	0.12325E 03
20	0.19151E 01	0.62637E 01	0.72469E 02	0.10151E 03	0.74116E 01
21	0.88776E 00	0.52082E 02	0.13295E 03	0.38612E 00	0.38228E 00
22	0.64457E 01	0.78622E 02	0.20214E 01	0.39777E 00	0.51752E 00
23	0.51488E 02	0.38945E 04	0.12121E 01	0.54429E 00	0.77374E 00
24	0.52525E 03	0.15317E 03	0.14027E 01	0.79610E 00	0.11629E 01
25	0.11369E 05	0.91697E 02	0.18813E 01	0.11785E 01	0.17354E 01

GROUP	I 149	XF131	XF133	CS133	CS134
1	0.10788E-02	0.17625E-02	0.14423E-03	0.60446E-03	0.35661E-02
2	0.35708E-02	0.30047E-02	0.41411E-03	0.17382E-02	0.14307E-01
3	0.10996E-01	0.89352E-02	0.12404E-02	0.52054E-02	0.48823E-01
4	0.27570E-01	0.21240E-01	0.32473E-02	0.13630E-01	0.77172E-01
5	0.58947E-01	0.39148E-01	0.67242E-02	0.28223E-01	0.93791E-01
6	0.82363E-01	0.75222E-01	0.18504E-01	0.77667E-01	0.18155E 00
7	0.11434E 00	0.13359E 00	0.31046E-01	0.13031E 00	0.22647E 00
8	0.16487E 00	0.22987E 00	0.44291E-01	0.18590E 00	0.23881E 00
9	0.23831E 00	0.36560E 00	0.65793E-01	0.27562E 00	0.31031E 00
10	0.36560E 00	0.54811E 00	0.10996E 00	0.45593E 00	0.48729E 00
11	0.53759E 00	0.80635E 00	0.18504E 00	0.77443E 00	0.74274E 00
12	0.75233E 00	0.12192E 01	0.29710E 00	0.12202E 01	0.11410E 01
13	0.70816E 00	0.12999E 01	0.53630E 00	0.12740E 01	0.13054E 01
14	0.10729E 01	0.21027E 01	0.70802E 00	0.20640E 01	0.23966E 01
15	0.19224E 01	0.42764E 01	0.96143E 00	0.37812E 01	0.47381E 01
16	0.33676E 01	0.71126E 01	0.31014E 01	0.10291E 02	0.73708E 01
17	0.84171E 01	0.90935E 01	0.15973E-01	0.15918E 02	0.96927E 01
18	0.61772E 01	0.93495E 01	0.67172E-01	0.15135E 02	0.18590E 02
19	0.73003E-01	0.15249E 02	0.32101E 00	0.30818E 02	0.38766E 02
20	0.24712E 00	0.91210E 03	0.12823E 01	0.14421E 02	0.44851E 00
21	0.70232E 00	0.20968E 02	0.40007E 01	0.37488E 03	0.10198E 01
22	0.15806E 01	0.12960E 02	0.56875E 01	0.99067E 01	0.32229E 01
23	0.29776E 01	0.15714E 02	0.18889E 02	0.53190E 01	0.84303E 01
24	0.48859E 01	0.21870E 02	0.32160E 02	0.63704E 01	0.17725E 02
25	0.75904E 01	0.31611E 02	0.50894E 02	0.87610E 01	0.31780E 02

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GROUP	KE135	CS135	CS137	LA139	BA140
1	0.11624E-03	0.57470E-03	0.48058E-04	0.11382E-03	0.56177E-03
2	0.12696E-03	0.63013E-03	0.11670E-03	0.37572E-03	0.22522E-02
3	0.35976E-03	0.17855E-02	0.33684E-03	0.18124E-02	0.94111E-02
4	0.88729E-03	0.44036E-02	0.11563E-02	0.40547E-02	0.17137E-01
5	0.19000E-02	0.94302E-02	0.27707E-02	0.81411E-02	0.17664E-01
6	0.38562E-02	0.19139E-01	0.43022E-02	0.86074E-02	0.13638E-01
7	0.61702E-02	0.30623E-01	0.55498E-02	0.10849E-01	0.13360E-01
8	0.91187E-02	0.45256E-01	0.69254E-02	0.14827E-01	0.14285E-01
9	0.13772E-01	0.69850E-01	0.99228E-02	0.23019E-01	0.18373E-01
10	0.22788E-01	0.12049E 00	0.17143E-01	0.43781E-01	0.31484E-01
11	0.40651E-01	0.20582E 00	0.31535E-01	0.83621E-01	0.55253E-01
12	0.75275E-01	0.33554E 00	0.56777E-01	0.15250E 00	0.89658E-01
13	0.13530E 00	0.55603E 00	0.65680E-01	0.22269E 00	0.17243E 00
14	0.30924E-03	0.91127E 00	0.27831E 00	0.39128E 00	0.24068E 00
15	0.47210E-03	0.21009E 01	0.62697E-02	0.72051E 00	0.16271E 02
16	0.19509E-02	0.56664E 01	0.76283E-03	0.14198E 01	0.27003E-02
17	0.12125E-01	0.66913E 02	0.11528E-02	0.53266E-01	0.75083E-02
18	0.80627E-01	0.35487E-01	0.18198E-02	0.12339E 02	0.17497E-01
19	0.56222E 00	0.93885E-01	0.28037E-02	0.21523E 00	0.33931E-01
20	0.37879E 01	0.21320E 00	0.42081E-02	0.33925E 00	0.57509E-01
21	0.25618E 02	0.40788E 00	0.82490E-02	0.52341E 00	0.90764E-01
22	0.18220E 03	0.69235E 00	0.92439E-02	0.79014E 00	0.13833E 00
23	0.13261E 04	0.10904E 01	0.13601E-01	0.11790E 01	0.20637E 00
24	0.10467E 05	0.16544E 01	0.19966E-01	0.20907E 01	0.30504E 00
25	0.10035E 06	0.24701E 01	0.24348E-01	0.25673E 01	0.44988E 00

GROUP	CE141	PR141	PM143	ND143	CE144
1	0.23630E-03	0.29153E-03	0.71125E-03	0.68337E-03	0.21078E-03
2	0.86843E-03	0.10625E-02	0.23920E-02	0.22982E-02	0.10909E-02
3	0.70763E-02	0.86582E-02	0.63988E-02	0.61479E-02	0.38892E-02
4	0.13924E-01	0.17036E-01	0.15216E-01	0.14620E-01	0.73179E-02
5	0.13580E-01	0.16618E-01	0.40497E-01	0.38910E-01	0.70789E-02
6	0.13275E-01	0.16242E-01	0.20503E-01	0.77346E-01	0.12345E-01
7	0.19990E-01	0.24459E-01	0.11072E 00	0.10638E 00	0.15053E-01
8	0.33575E-01	0.41080E-01	0.13853E 00	0.13310E 00	0.15686E-01
9	0.57237E-01	0.66293E-01	0.20420E 00	0.19656E 00	0.20315E-01
10	0.10268E 00	0.10855E 00	0.34669E 00	0.33437E 00	0.35229E-01
11	0.17855E 00	0.20307E 00	0.58205E 00	0.56123E 00	0.60664E-01
12	0.30018E 00	0.27608E 00	0.10052E 01	0.96630E 00	0.97690E-01
13	0.53499E 00	0.44959E 00	0.15366E 01	0.14831E 01	0.14148E 00
14	0.95572E 00	0.68800E 00	0.29029E 01	0.32775E 01	0.16339E 01
15	0.18822E 01	0.23388E 01	0.25499E 01	0.79019E 01	0.83475E 00
16	0.29063E 01	0.10528E 02	0.15452E 02	0.13679E 02	0.16139E-01
17	0.49644E 01	0.55786E 00	0.30391E 02	0.25804E 02	0.10710E-01
18	0.15469E 02	0.23003E 01	0.54677E 02	0.24162E 02	0.15917E-01
19	0.94367E-01	0.16384E 00	0.82773E 02	0.10845E 00	0.24736E-01
20	0.26715E 00	0.32223E 00	0.73756E 02	0.60963E-01	0.37569E-01
21	0.72690E 00	0.56366E 00	0.32839E 03	0.91081E-01	0.56175E-01
22	0.16204E 01	0.90977E 00	0.25653E 01	0.24590E 00	0.83439E-01
23	0.30117E 01	0.13968E 01	0.52688E 01	0.10405E 01	0.12300E 00
24	0.49935E 01	0.20933E 01	0.11444E 02	0.48339E 01	0.18078E 00
25	0.77951E 01	0.31073E 01	0.21674E 02	0.19514E 02	0.26587E 00

GROUP	ND144	ND145	ND146	PM147	SM147
1	0.91667E-03	0.41182E-03	0.51755E-03	0.10101E-02	0.10782E-02
2	0.47477E-02	0.91011E-03	0.25433E-02	0.35098E-02	0.37467E-02
3	0.16926E-01	0.28857E-02	0.10681E-01	0.11483E-01	0.12258E-01
4	0.31849E-01	0.81821E-02	0.24082E-01	0.37920E-01	0.40479E-01
5	0.30809E-01	0.25565E-01	0.25647E-01	0.18433E 00	0.19677E 00
6	0.53726E-01	0.51811E-01	0.29700E-01	0.24293E 00	0.25933E 00
7	0.65513E-01	0.78446E-01	0.40303E-01	0.31120E 00	0.33220E 00
8	0.68269E-01	0.11094E 00	0.56332E-01	0.42613E 00	0.45489E 00
9	0.90347E-01	0.17111E 00	0.84651E-01	0.63124E 00	0.67270E 00
10	0.14680E 00	0.28967E 00	0.13619E 00	0.10540E 01	0.11462E 01
11	0.22430E 00	0.48425E 00	0.20726E 00	0.18486E 01	0.20068E 01
12	0.33784E 00	0.83005E 00	0.30978E 00	0.33846E 01	0.37035E 01
13	0.38028E 00	0.12631E 01	0.14964E 00	0.48295E 01	0.50610E 01
14	0.54326E 00	0.23743E 01	0.24253E 00	0.85795E 01	0.89416E 01
15	0.97996E 00	0.66079E 01	0.10110E 01	0.15146E 02	0.13708E 02
16	0.51927E 01	0.12970E 02	0.65496E-01	0.26174E 02	0.27008E 02
17	0.54753E-01	0.26977E 02	0.20169E-01	0.54302E 02	0.53670E 02
18	0.50448E-01	0.14244E 02	0.21142E-01	0.91310E 02	0.71322E 02
19	0.79776E-01	0.10029E 03	0.33873E-01	0.90154E 02	0.18906E 03
20	0.12731E 00	0.11462E 01	0.52225E-01	0.42752E 02	0.16221E 03
21	0.19678E 00	0.63740E 01	0.78665E-01	0.23606E 04	0.15064E 01
22	0.29752E 00	0.16442E 03	0.11723E 00	0.73370E 02	0.18472E 03
23	0.44235E 00	0.59535E 01	0.17313E 00	0.35333E 02	0.37875E 01
24	0.65288E 00	0.85517E 01	0.25464E 00	0.38901E 02	0.49651E 01
25	0.96200E 00	0.12655E 02	0.37462E 00	0.47277E 02	0.95171E 01

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GROUP	PM148	SM148	PM149	SM149	SM150
1	0.29301E-02	0.94271E-03	0.10118E-02	0.13492E-02	0.94899E-03
2	0.15761E-01	0.50878E-02	0.31660E-02	0.42233E-02	0.61374E-02
3	0.69028E-01	0.22388E-01	0.11501E-01	0.15341E-01	0.27390E-01
4	0.19437E 00	0.62495E-01	0.31653E-01	0.42223E-01	0.57757E-01
5	0.19221E 00	0.61188E-01	0.81675E-01	0.10695E 00	0.72221E-01
6	0.31171E 00	0.10022E 00	0.18179E 00	0.24251E 00	0.74616E-01
7	0.36283E 00	0.11866E 00	0.29787E 00	0.39735E 00	0.10179E 00
8	0.36596E 00	0.11767E 00	0.44537E 00	0.59410E 00	0.14913E 00
9	0.46596E 00	0.14599E 00	0.67681E 00	0.90762E 00	0.21234E 00
10	0.75602E 00	0.25104E 00	0.11234E 01	0.15798E 01	0.36060E 00
11	0.13015E 01	0.45081E 00	0.19656E 01	0.28154E 01	0.64994E 00
12	0.23645E 01	0.86541E 00	0.35358E 01	0.52276E 01	0.13105E 01
13	0.33076E 01	0.40085E 00	0.46634E 01	0.55547E 01	0.24006E 01
14	0.59609E 01	0.66946E 00	0.79812E 01	0.92443E 01	0.45898E 01
15	0.10705E 02	0.16722E 01	0.13564E 02	0.15350E 02	0.12054E 02
16	0.25489E 02	0.24590E 01	0.22562E 02	0.24970E 02	0.25262E 02
17	0.41845E 02	0.14508E 02	0.39826E 02	0.39752E 02	0.42836E 02
18	0.66922E 02	0.13946E 00	0.65311E 02	0.89837E 02	0.84647E 02
19	0.92342E 02	0.10408E 00	0.99778E 02	0.16335E 03	0.95807E 02
20	0.29434E 03	0.15210E 00	0.17024E 03	0.13149E 03	0.12226E 03
21	0.50420E 02	0.24343E 00	0.21905E 03	0.48318E 03	0.36068E 01
22	0.10170E 02	0.37784E 00	0.49943E 03	0.12603E 03	0.68003E 01
23	0.39281E 02	0.56987E 00	0.21707E 02	0.43505E 03	0.11596E 02
24	0.56816E 03	0.84707E 00	0.41734E 02	0.34387E 04	0.18375E 02
25	0.39664E 03	0.12528E 01	0.12704E 03	0.32345E 04	0.28039E 02

GROUP	SM151	EU151	SM152	EU153	EU154
1	0.35225E-02	0.0	0.12416E-02	0.18584E-02	0.13602E-01
2	0.19556E-01	0.0	0.69983E-02	0.10476E-01	0.99849E-01
3	0.70178E-01	0.0	0.27386E-01	0.40997E-01	0.42520E 00
4	0.18098E 00	0.0	0.75543E-01	0.11309E 00	0.77147E 00
5	0.40785E 00	0.0	0.17424E 00	0.26092E 00	0.86145E 00
6	0.63111E 00	0.0	0.26773E 00	0.40080E 00	0.89675E 00
7	0.90805E 00	0.0	0.41847E 00	0.62645E 00	0.12209E 01
8	0.12941E 01	0.0	0.67238E 00	0.10065E 01	0.17701E 01
9	0.19903E 01	0.0	0.10801E 01	0.15669E 01	0.26157E 01
10	0.33348E 01	0.0	0.18500E 01	0.26045E 01	0.40954E 01
11	0.56319E 01	0.0	0.32270E 01	0.44456E 01	0.63895E 01
12	0.92650E 01	0.0	0.55134E 01	0.73709E 01	0.97004E 01
13	0.89721E 01	0.0	0.57992E 01	0.64430E 01	0.74944E 01
14	0.13675E 02	0.0	0.91006E 01	0.98494E 01	0.11018E 02
15	0.20949E 02	0.0	0.14274E 02	0.15156E 02	0.16456E 02
16	0.31764E 02	0.0	0.22056E 02	0.23067E 02	0.24471E 02
17	0.47876E 02	0.0	0.33747E 02	0.34867E 02	0.36352E 02
18	0.71450E 02	0.0	0.50935E 02	0.52139E 02	0.53689E 02
19	0.10626E 03	0.0	0.76539E 02	0.79309E 02	0.79254E 02
20	0.15692E 03	0.0	0.11498E 03	0.15274E 03	0.11408E 03
21	0.42555E 03	0.0	0.18080E 03	0.18216E 03	0.16827E 03
22	0.17917E 03	0.0	0.23128E 03	0.85773E 03	0.24901E 03
23	0.15362E 04	0.0	0.31407E 03	0.98828E 02	0.36203E 03
24	0.23835E 03	0.0	0.40127E 03	0.75909E 03	0.57523E 03
25	0.44318E 03	0.0	0.14647E 04	0.13927E 03	0.68315E 03

GROUP	EU155	EU156	GD158	TB159
1	0.21430E-02	0.46122E-02	0.58539E-03	0.13257E-02
2	0.77547E-02	0.32383E-01	0.43653E-02	0.78611E-02
3	0.31417E-01	0.13108E 00	0.19743E-01	0.33805E-01
4	0.84352E-01	0.31318E 00	0.35792E-01	0.12962E 00
5	0.14552E 00	0.40587E 00	0.45711E-01	0.22694E 00
6	0.21560E 00	0.36621E 00	0.41468E-01	0.33085E 00
7	0.39491E 00	0.50381E 00	0.56925E-01	0.50125E 00
8	0.76716E 00	0.79013E 00	0.88872E-01	0.77128E 00
9	0.13535E 01	0.12583E 01	0.11562E 00	0.12079E 01
10	0.23204E 01	0.21361E 01	0.16158E 00	0.21404E 01
11	0.39894E 01	0.36307E 01	0.27881E 00	0.36347E 01
12	0.66125E 01	0.59559E 01	0.53172E 00	0.56862E 01
13	0.64897E 01	0.57046E 01	0.13185E 01	0.48952E 01
14	0.99306E 01	0.86896E 01	0.26488E 01	0.73970E 01
15	0.15253E 02	0.13303E 02	0.60456E 01	0.11293E 02
16	0.23175E 02	0.20159E 02	0.76236E 01	0.17075E 02
17	0.34982E 02	0.30367E 02	0.35119E 02	0.30996E 02
18	0.52263E 02	0.45432E 02	0.12831E 00	0.33800E 02
19	0.78358E 02	0.67501E 02	0.16442E 02	0.56275E 02
20	0.11637E 03	0.10518E 03	0.55450E 02	0.19792E 03
21	0.17403E 03	0.14447E 03	0.25523E 00	0.10760E 02
22	0.21689E 03	0.20331E 03	0.28169E 00	0.10062E 03
23	0.35157E 03	0.20738E 03	0.37646E 00	0.27542E 01
24	0.51516E 03	0.79285E 03	0.55198E 00	0.29523E 01
25	0.17723E 03	0.14396E 03	0.76906E 00	0.47077E 01

C.2 Capture Cross Sections and Resonance Integrals for the Thermal Reactor

No.	Nuclide	σ_c (0.0253 eV) barns	RI barns
1	⁷⁹ Se	40.0	55.48
2	⁸⁵ Kr	8.0	8.16
3	⁸⁷ Kr	—	—
4	⁹⁰ Sr	0.8	0.41
5	⁹³ Zr	2.0	26.0
6	⁹⁵ Mo	14.5	106.3
7	⁹⁷ Mo	2.2	15.05
8	⁹⁹ Tc	22.0	197.9
9	¹⁰⁰ Ru	5.8	11.57
10	¹⁰¹ Ru	5.2	79.6
11	¹⁰² Ru	1.3	4.266
12	¹⁰³ Rh	149.0	1013.7
13	¹⁰⁴ Ru	0.47	5.43
14	¹⁰⁴ Rh	—	—
15	¹⁰⁵ Rh	1.70×10^4	1.699×10^4
16	¹⁰⁵ Pd	11.0	74.8
17	¹⁰⁶ Ru	0.146	1.28
18	¹⁰⁷ Pd	10.0	80.4
19	¹⁰⁸ Pd	12.0	215.2
20	¹⁰⁹ Ag	95.0	1444.2
21	¹¹³ Cd	1.994×10^4	365.6
22	¹¹⁵ In	199.0	3221.1

Cont'd

No.	Nuclide	σ_c (0.0253 eV) barns	RI barns
23	¹²¹ Sb	6.2	205.5
24	¹²³ Sb	4.2	125.6
25	¹²⁷ I	6.2	151.8
26	¹²⁹ I	28.0	25.97
27	¹³¹ Xe	110.0	789.9
28	¹³³ Xe	190.0	52.25
29	¹³³ Cs	29.5	460.3
30	¹³⁴ Cs	134.0	87.97
31	¹³⁵ Xe	2.7×10^6	7262.2
32	¹³⁵ Cs	8.9	61.99
33	¹³⁷ Cs	0.11	0.414
34	¹³⁹ La	9.0	15.63
35	¹⁴⁰ Ba	1.6	13.59
36	¹⁴¹ Ce	29.0	28.73
37	¹⁴¹ Pr	11.0	17.52
38	¹⁴³ Pr	100.0	190.0
39	¹⁴³ Nd	325.0	64.47
40	¹⁴⁴ Ce	1.0	2.602
41	¹⁴⁴ Nd	3.6	7.64
42	¹⁴⁵ Nd	45.0	271.3
43	¹⁴⁶ Nd	1.4	2.36
44	¹⁴⁷ Pm	170.0	2.178×10^3
45	¹⁴⁷ Sm	58.0	566.2

Cont'd

No.	Nuclide	σ_c (0.0253 eV) barns	RI barns
46	¹⁴⁸ Pm	3.0×10^3	4.398×10^4
47	¹⁴⁸ Sm	4.7	18.51
48	¹⁴⁹ Pm	1.4×10^3	927.7
49	¹⁴⁹ Sm	4.2×10^4	3.705×10^3
50	¹⁵⁰ Sm	102.0	257.1
51	¹⁵¹ Sm	1.5×10^4	2.178×10^3
52	¹⁵¹ Eu	—	—
53	¹⁵² Sm	206.0	3.24×10^3
54	¹⁵³ Eu	450.0	1.279×10^3
55	¹⁵⁴ Eu	1.5×10^3	1.24×10^3
56	¹⁵⁵ Eu	4.04×10^3	1.223×10^3
57	¹⁵⁶ Eu	481.7	1.258×10^3
58	¹⁵⁸ Gd	2.8	97.9
59	¹⁵⁹ Tb	22.0	376.4

Appendix D List of Gamma-Rays emitted from Each FP Nuclide (19)

POLICIES

Values Selected	No strict criteria were used to select the γ -ray energy values, but, in general, values of different authors were compared, and those in best agreement with other results were chosen. A preference was given to values in recent papers whose authors presumably had the advantage of comparison with previous work. If a set of γ -ray data was incomplete, values were added from other data sets.
γ -Rays Included	Gamma rays from the decay of nuclides with half-lives greater than 0.1 sec have been included. For nuclides with greater than 50 γ -rays, some of the very weak γ -rays may not be included. In addition, the K_{α_1} , K_{α_2} , K_{β_1} , K_{β_2} , L_{α_1} , L_{β_1} , and L_{γ_1} x-rays, which would be observable with semiconductor detectors, have been listed. The K x-rays are designated KA1, KA2, KB1, etc. in the tables. If the energy of two lines, such as K_{α_1} and K_{α_2} , differs by less than 0.1 keV, only one entry K_A is made. The L x-rays are designated LA for L_{α_1} , etc.
Energy Accuracy	The energies of the γ -rays are given to 0.1 keV, if reported to this level of precision. The number of significant figures listed indicates the precision of the reported energy.
Intensities	Intensities are listed as photons per disintegration if available. Intensities followed by an asterisk indicate relative intensities. If an intensity value has not been reported, S is used to indicate a strong transition, W a weak transition, and U a transition about which no information is available as to photon intensity. The intensities are normally listed to two significant figures unless the author particularly stressed the measurement of photon intensities.
Daughter Nuclides	To facilitate the identification of nuclides which are sustained by parent nuclides with half-lives greater than twice that of their daughters, all γ -rays from these daughter nuclides are listed with both the daughter and parent nuclides. When listed under a parent nuclide, these radiations are indicated by the symbol D after the energy listing. Because of the many complex parent-daughter relationships in the three natural radioactive decay chains, daughter radiations are not included for nuclides with atomic number greater than 83.
Annihilation (γ)	Annihilation radiation from positron emitters is listed for pure positron emitters only, because this radiation has limited value for identification. The 511-keV annihilation radiation is listed under associated gamma radiations if there are no other gamma radiations more distinctive of the nuclide. An annihilation radiation is indicated by the symbol A following the 511-keV energy.
X-Rays	If x-rays are prominent in the photon spectrum of a nuclide, the K_{α_1} energy is included in the γ -ray listing of the nuclide and is identified by the symbol X following the energy listing. If K_{α_1} x-rays are not emitted because the energy of the gamma transition is too low for conversion in the K -shell, the L_{β_1} x-ray energy is listed. Abundances are not listed for these x-rays. X-rays are included to remind the user of the possibility of their presence in a region when searching for the identification of a low-energy γ -ray.
Escape Peaks	Peaks which result from single and double escape of annihilation photons from the detector have not been included, even though these peaks often predominate in the spectrum observed with a Ge(Li) detector. These peaks are omitted because of practical limitations in cataloguing and also because of the variability of this effect with detector size and shape.

ABBREVIATIONS AND SYMBOLS USED IN TABLES

Column Heading	Symbol	Meaning
ENERGY	D	γ -ray emitted by a daughter nucleus of that listed
	X	Most prominent x-ray observable in the spectrum
	A	Annihilation radiation
NUCLIDE	CU 62	^{62}Cu
	CU 62M	$^{62\text{m}}\text{Cu}$
	KA1, KB1	K_{α_1} , K_{β_1} x-ray
	KA	Listed when K_{α_1} and K_{α_2} differ by less than 0.1 keV
	KB	Listed when K_{β_1} and K_{β_2} differ less than 0.1 keV
ABUNDANCE	LA, LB, LG	L_{α_1} , L_{β_1} , L_{γ_1} x-ray
	S	Strong, but quantitatively unknown
	W	Weak, but quantitatively unknown
	U	Unknown
	*	Relative intensity
HALF-LIFE	S	Seconds
	M	Minutes
	H	Hours
	D	Days
	Y	Years
	Y 6	10^6 years

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NI 66 HALF LIFE= 55. H		2 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
.83360	.0025	1.03900	.09						
CU 66 HALF LIFE= 5.1 M		2 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
.8336	.0025	1.0390	.09						
GA 66 HALF LIFE= 9.4 H		33 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.6352	.U	.8336	.059	.9936	.004	1.0390	.39	1.232	.0062
1.3332	.0125	1.357	.0066	1.4190	.0062	1.508	.0058	1.898	.0039
1.9187	.024	1.933	.0055	2.1903	.058	2.2154	.0016	2.394	.0024
2.4230	.02	2.472	.009	2.7521	.25	2.7805	.0012	2.920	.0008
2.932	.0023	3.2295	.0152	3.2570	.0012	3.3612	.0156	3.4830	.0094
3.433	.0029	3.766	.0012	3.7913	.0101	3.958	.0015	4.0872	.0112
4.2955	.036	4.4620	.007	4.8080	.016				
GE 66 HALF LIFE= 2.4 H		31 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0212	.041	.0395	.19	.0435	.87	.0544	.009	.0655	.25
.0910	.012	.0964	.006	.1089	.43	.1250	.017	.1478	.031
.1547	.012	.1820	.25	.1906	.26	.2456	.20	.2728	.39
.2908	.021	.3024	.081	.3156	.028	.3378	.27	.3817	1.00
.4154	.018	.4276	.023	.4708	.28	.4720	.088	.4929	.019
.5366	.22	.5975	.012	.6400	.007	.7062	.15	.7572	.026
.8662	.003								
NI 67 HALF LIFE= 30. S		3 GAMMA RAYS		ENERGY	ABUNDANCE				
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE				
.89	.17	.90	.35	1.26	.15				
CU 67 HALF LIFE= 59. H		7 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0086X	.U	.0913	.07	.0934	.16	.1845	.50	.2089	.W
.3001	.02	.3935	.012						
GA 67 HALF LIFE= 78. H		10 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0086X	.U	.0913	.033	.0933	.38	.1846	.24	.209	.025
.3001	.16	.494	.001	.704	.00015	.795	.0006	.888	.0016
GE 67 HALF LIFE= 19. M		31 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.1665	1.05	.360	.03	.558	.U	.576	.U	.710	.U
.720	.U	.728	.018	.828	.U	.900	.04	.915	.07
.981	.008	1.082	.008	1.116	.006	1.283	.003	1.450	.05
1.509	.U	1.644	.017	1.877	.U	1.810	.015	1.837	.U
2.004	.004	2.100	.U	2.107	.U	2.210	.U	2.510	.006
2.559	.U	2.726	.002	2.958	.U	2.991	.U	3.065	.004
3.157	.003								
CU 68 HALF LIFE= 30. S		6 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.5778	.03	.8057	.026	1.0774	1.00	1.2621	.22	1.7448	.024
1.8837	.013								
GA 68 HALF LIFE= 68.3 M		6 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.5782	.007	.8056	.022	1.0772	1.00	1.2621	.031	1.7450	.005
1.8838	.048								
GE 68 HALF LIFE= 275. D		6 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.57820	.007	.80560	.022	1.07720	1.00	1.26210	.031	1.74500	.005
1.88380	.048								
ZN 69M HALF LIFE= 13.8 H		2 GAMMA RAYS		ENERGY	ABUNDANCE				
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE				
.0086X	.U	.4387	.95						
GE 69 HALF LIFE= 38. H		32 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.2554	.0022	.2983	.00022	.3184	.016	.381	.00022	.4192	.00074
.5324	.0026	.5331	.006	.5739	.14	.5871	.0026	.7620	.0024
.7877	.004	.8617	.0003	.8717	.126	.9127	.0005	.951	.00025
1.0515	.004	1.1064	.324	1.1496	.0004	1.2066	.0025	1.317	.00033
1.3362	.036	1.3495	.003	1.4047	.00016	1.4496	.0003	1.470	.0001
1.4878	.0008	1.5257	.002	1.5729	.0015	1.7235	.00035	1.8908	.003
1.9230	.001	2.0222	.004						
AS 69 HALF LIFE= 15. M		6 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0866	.08*	.1450	.68*	.2327	1.00*	.2871	.19*	.3741	.14*
.3961	.12*								

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GA 70	HALF LIFE= 21.1 M	4 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE						
	.1753 .0016	1.0394 .0016	1.0305 .0016		1.215 .00002			
ZN 71M	HALF LIFE= 4.0 M	27 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE						
	.1219 .031*	.1426 .060*	.3863 1.00*	.3899 .028*	.4531 .012*			
	.4873 .67*	.5116 1.00*	.5662 .0021*	.5749 .0012*	.5961 .30*			
	.6202 .61*	.7534 .035*	.7713 .022*	.9101 .0033*	.9567 .0071*			
	.9647 .046*	.9986 .013*	1.0065 .008*	1.0114 .0073*	1.1398 .0022*			
	1.2827 .0029*	1.3067 .0012*	1.3114 .0011*	1.3222 .0025*	1.3808 .0039*			
	1.4760 .0065*	1.7596 .010*						
4N 71	HALF LIFE= 2.4 M	23 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE						
	.1215 .093*	.3900 .12*	.3986 .019*	.4232 .0012*	.4531 .0055*			
	.4873 .0037*	.5116 1.00*	.5205 .0025*	.5751 .0009*	.6668 .028*			
	.7214 .017*	.9103 .24*	.9648 .024*	1.1093 .0051*	1.1200 .068*			
	1.1442 .0025*	1.2415 .0010*	1.3836 .0011*	1.5530 .0008*	1.6316 .012*			
	1.9044 .0053*	2.0646 .0014*	2.2948 .0008*					
GE 71	HALF LIFE= 11.4 D	1 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE							
	.0092X .							
AS 71	HALF LIFE= 62. M	30 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE						
	.0099X .	.1747 .90	.2471 .W	.2792 .W	.3263 .S			
	.3499 .W	.3736 .W	.3912 .W	.4620 .W	.4996 .S			
	.5266 .S	.5722 .W	.6153 .W	.6227 .W	.6797 .W			
	.6854 .W	.7077 .W	.7125 .W	.7470 .W	.8512 .W			
	.9206 .W	1.0267 .W	1.0355 .W	1.0379 .W	1.0955 .S			
	1.1393 .W	1.2128 .W	1.2313 .W	1.2984 .W	1.3315 .W			
4N 72	HALF LIFE= 46.3 M	34 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE						
	.0092X .	.0165 .095	.0222 .009	.0470 .006	.0794 .02			
	.0886 .025	.1026 .027	.1118 .023	.11250 .0014	.1448 1.00			
	.1920 .099	.2395 .0021	.28950 .0021	.33660 .0011	.38120 .0029			
	.42840 .0019	.5874 .0013	.60090 .058	.62990 .255	.73560 .0038			
	.78650 .033	.8102 .021	.83390 1.00	.86100 .0095	.89420 .103			
	.92430 .0014	.9394 .0027	.97060 .011	.99980 .0083	1.05070 .072			
	1.21510 .0043	1.2309 .015	1.26010 .012	1.27680 .016	1.46400 .037			
	1.56820 .002	1.5717 .0087	1.59680 .044	1.68080 .009	1.71090 .004			
	1.83710 .002	1.86110 .055	1.87780 .002	1.92020 .0017	1.99130 .0012			
	2.02910 .0013	2.10950 .011	2.20160 .27	2.21430 .0019	2.49100 .078			
	2.50770 .13	2.51460 .0026	2.62110 .0014	2.84390 .0043				
GA 72	HALF LIFE= 14.1 M	44 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE						
	.1125 .0014	.2855 .0021	.2895 .0021	.3366 .0011	.3812 .0029			
	.4284 .0019	.5874 .0013	.6009 .058	.6299 .255	.7356 .0038			
	.7865 .033	.8102 .021	.8339 1.00	.8610 .0095	.8942 .103			
	.9243 .0014	.9394 .0027	.9706 .011	.9998 .0083	1.0507 .072			
	1.2151 .0043	1.2309 .015	1.2601 .012	1.2768 .016	1.4640 .037			
	1.5682 .002	1.5717 .0087	1.5968 .044	1.6808 .009	1.7109 .004			
	1.8371 .002	1.8611 .055	1.8778 .002	1.9202 .0017	1.9913 .0012			
	2.0291 .0013	2.1095 .011	2.2016 .27	2.2143 .0019	2.4910 .078			
	2.5077 .13	2.5146 .0026	2.6211 .0014	2.8439 .0043				
AS 72	HALF LIFE= 26. M	42 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE						
	.6009 .W	.6004 .0039	.6298 .08	.6299 .099	.7567 .W			
	.7857 .W	.7864 .W	.7865 .0059	.8339 1.00	.8340 .78			
	.8942 .0096	.8962 .016	1.0506 .023	1.0507 .012	1.1934 .001			
	1.2151 .0026	1.2155 .015	1.3792 .008	1.3903 .W	1.3904 .0030			
	1.4640 .014	1.4641 .031	1.4758 .W	1.4758 .0064	1.5682 .0016			
	1.6808 .0015	1.7107 .008	1.7109 .0030	1.9178 .008	1.9202 .0012			
	1.9911 .W	1.9913 .0042	2.1059 .0079	2.1095 .0034	2.2016 .0058			
	2.2483 .0039	2.4023 .0012	2.5077 .0040	2.6211 .0046	2.9396 .0036			
	3.0937 .0012	3.8032 .0013						
SE 72	HALF LIFE= 8.4 D	27 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE						
	.0105X .	.046 .59	.00090 .0039	.62990 .099	.78650 .0039			
	.83390 1.00	.89820 .0096	1.03070 .032	1.19340 .001	1.21510 .0026			
	1.39040 .0030	1.46470 .014	1.47530 .0064	1.56820 .0016	1.68080 .0015			
	1.71090 .0030	1.92020 .0012	1.99130 .0042	2.10950 .0079	2.10950 .0034			
	2.24830 .0039	2.40230 .0012	2.50770 .0040	2.62110 .0046	2.93960 .0036			
	3.09370 .0012	3.80320 .0013						
GA 73	HALF LIFE= 4.9 M	12 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE						
	.0099X .	.0534 .10	.0687 .0013	.2850 .W	.3812 .02			
	.3257 .13	.3795 .001	.7394 .07	.7679 .017				
	1.04 .003	1.066 .0						
GE 73M	HALF LIFE= .535	3 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE						
	.0099X .	.0135 .0	.024 .09					
AS 73	HALF LIFE= 76. D	3 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE						
	.0099X .	.0135 .001	.0334 .10					

SE 73M HALF LIFE= 42. M		30 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0845	.79*	.1396	.024*	.1815	.12*	.2343	1.00*	.2624	.048*
.3094	.062*	.3206	.36*	.3936	.89*	.4016	.54*	.4428	.011*
.4900	.02*	.5712	.10*	.5718	.91*	.5881	.035*	.6353	.042*
.7028	.051*	.7250	.027*	.7698	.054*	.8239	.043*	.8505	.099*
.9352	.007*	.9934	.031*	1.0029	.025*	1.0196	.009*	1.0781	.25*
1.0870	.014*	1.1886	.003*	1.2153	.003*	1.2320	.003*	1.3021	.023*
SE 73 HALF LIFE= 7.1 H		15 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0670	.73	.3611	1.00	.5569	.0004	.7005	.0003	.7650	.0010
.7837	.0006	.8190	.0002	.8475	.0006	.8824	.0099	.9012	.0012
.9836	.00 2	1.1110	.0018	1.3410	.00 7	1.4229	.0011	1.5481	.0003
GA 74 HALF LIFE= 7.9 M		26 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.38	.02	.50	.11	.598	.67	.60	.13	.72	.02
.87	.02	.87	.05	.98	.04	1.11	.05	1.2	.02
1.20	.06	1.33	.05	1.46	.01	1.46	.06	1.56	.02
1.7	.03	1.76	.03	1.99	.005	1.93	.06	2.35	.49
2.55	.03	2.73	.03	2.97	.01	2.97	.02	3.23	.03
3.41	.02								
AS 74M HALF LIFE= 8.0 S		1 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE								
.283	.0								
AS 74 HALF LIFE= 17.9 D		11 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.5960	.595	.6683	.0055	.6349	.148	.7130	.00006	.8675	.00003
.8866	.0002	.9936	.0002	1.1016	.00007	1.2043	.002	1.6025	.00006
2.1984	.0001								
GA 75 HALF LIFE= 2.0 M		2 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
.36	.01	.58	.03						
GE 75M HALF LIFE= 48. S		2 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
.0099X	.	.1398	.34						
GE 75 HALF LIFE= 82. M		7 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0656	.00089	.1992	.0078	.2648	.10	.3530	.00019	.4186	.0025
.4687	.0018	.6174	.0005						
SE 75 HALF LIFE= 120.4 D		13 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0105X		.0243	.0018	.0660	.01	.081	.0002	.0967	.033
.1211	.17	.1360	.58	.1986	.014	.2646	.81	.2796	.25
.3040	.014	.4007	.121	.572	.001				
BR 75 HALF LIFE= 1.7 H		22 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0112X	.	.1125	.4	.1415	.5	.2360	.W	.2867	.5
.2951	.W	.3160	.W	.3776	.5	.4282	.W	.5661	.W
.5731	.W	.5985	.W	.6088	.W	.7336	.W	.7710	.W
.7964	.W	.860	.W	.8976	.W	.9121	.W	.9499	.W
.9528	.W	.9621	.W						
AS 76 HALF LIFE= 26.4 H		32 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.3591	.446	.5623	.016	.572	.002	.624	.004	.6570	.063
.6634	.0045	.705	.0016	.7399	.0021	.7528	.W	.773	.0015
.82	.0013	.858	.0012	.869	.0015	.882	.0002	.972	.0006
1.0744	.W	1.0889	.W	1.130	.0014	1.2133	.016	1.2162	.034
1.2286	.0165	1.4394	.0026	1.537	.00025	1.610	.00009	1.7878	.0032
1.873	.0005	1.883	.0009	1.97	.W	2.0966	.006	2.1111	.0033
2.430	.0005	2.655	.0005						
GE 77M HALF LIFE= 34. S		3 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE				
.0099A	.	.1598	.12	.2155	.21				
GE 77 HALF LIFE= 11.3 H		58 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.1566	.0095	.1950	.024	.2090	.029	.2110	.50	.2156	.48
.2644	1.00	.3383	.12	.3674	.31	.4163	.49	.4416	.028
.4754	.027	.5585	.34	.5850	.017	.6148	.013	.6324	.19
.6736	.014	.7146	.16	.7462	.03	.7508	.018	.7676	.015
.7821	.024	.7865	.015	.7956	.004	.8112	.046	.8240	.01
.8443	.0019	.8758	.019	.9074	.011	.9146	.006	.9243	.019
.9288	.019	.9404	.004	1.0856	.12	1.1939	.049	1.2152	.003
1.2427	.0069	1.2846	.012	1.2792	.0024	1.2962	.0028	1.3095	.0076
1.3130	.0064	1.3197	.0070	1.3590	.0018	1.3880	.051	1.4770	.0023
1.4795	.0038	1.4944	.0065	1.5285	.0009	1.5388	.0019	1.5728	.012
1.7095	.0057	1.8452	.0014	1.9996	.0091	2.0373	.001	2.0779	.0036
2.0900	.0046	2.1260	.0026	2.3423	.0079				

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SE 77	HALF LIFE= 17.5 S	2 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE				
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0112X .	.1616 .30								
AS 77	HALF LIFE= 38.7 M	8 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0112X .00008	.0871 .0023	.1616 .0018	.2390 .016	.2498 .0037					
	.2711 .00008	.2614 .0006	.2209 .0061							
BR 77M	HALF LIFE= 4.2 M	2 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE				
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0119X .	.1076 .0								
BR 77	HALF LIFE= 57. M	64 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0770 .001	.0878 .015	.1392 .0013	.1619 .022	.1806 .00035					
	.1870 .00087	.2004 .0136	.2315 .0011	.2389 .26	.2438 .00049					
	.2497 .0326	.2706 .0034	.2774 .00041	.2816 .024	.2972 .041					
	.3038 .0123	.3252 .0003	.3314 .0008	.3785 .00039	.3851 .0078					
	.4194 .00018	.4397 .0159	.4725 .00019	.4848 .0094	.5207 .232					
	.5665 .0042	.5686 .0083	.5751 .0109	.5794 .0281	.5859 .0125					
	.6107 .00026	.6330 .0011	.6563 .00021	.6823 .00016	.7043 .00026					
	.7506 .00049	.7560 .014	.7670 .00046	.8185 .020	.8251 .0014					
	.8438 .00046	.8864 .000687	.9118 .00006	1.0057 .0081						
KR 77	HALF LIFE= 1.19H	17 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0242 .*	.1055 .016*	.1464 .**	.162 .004*	.2759 .036*					
	.3119 .039*	.607 .003*	.735 .004*	.838 .002*	.861 .002*					
	.895 .001*	.990 .*	1.001 .*	1.044 .*	1.058 .*					
	1.301 .006*	1.448 .002*								
GE 78	HALF LIFE= 1.47H	2 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE				
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.277 .94	.294 .06								
AS 78	HALF LIFE= 91. M	32 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.3548 .04*	.4630 .006*	.5458 .053*	.6135 1.00*	.6867 .04*					
	.6947 .33*	.8275 .16*	.8415 .003*	.8430 .01*	.8830 .008*					
	.8886 .05*	.9590 .01*	1.0795 .035*	1.1444 .038*	1.1980 .015*					
	1.2399 .13*	1.3083 .27*	1.3390 .01*	1.3733 .10*	1.3823 .014*					
	1.5298 .051*	1.7138 .037*	1.7917 .02*	1.8558 .03*	1.9223 .035*					
	1.9956 .025*	2.0684 .011*	2.1683 .010*	2.2246 .016*	2.6100 .009*					
	2.6805 .035*	2.7970 .004*								
BR 78	HALF LIFE= 6.5 M	2 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE				
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0112X .	.614 .14								
AS 79	HALF LIFE= 9.0 M	11 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0955 .99	.3643 .010	.4023 .0005	.4520 .008	.4468 .0014					
	.4760 .002	.5520 .0007	.7151 .0016	.7256 .0006	.8785 .0077					
	.9934 .0007									
SE 79M	HALF LIFE= 3.9 M	2 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE				
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0112X .	.0959 .09								
BR 79M	HALF LIFE= 4.8 S.	2 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE				
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0119X .	.208 .7								
KR 79M	HALF LIFE= 55. S	2 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE				
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0126X .	.127 .0								
KR 79	HALF LIFE= 34.9 M	21 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0119X .	.0445 .0	.0840 .0	.1361 .007	.181 .00001					
	.2086 .0027	.2175 .0062	.2613 .09	.2998 .00005	.3069 .00014					
	.346 .0	.369 .0	.398 .10	.526 .0	.606 .10					
	.836 .020	.936 .0006	1.028 .0007	1.074 .0023	1.119 .005					
	1.336 .005									
BR 79	HALF LIFE= 24. M	4 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0126X .	.127 .0	.13 .73	.19 .29						
AS 80	HALF LIFE= 15.3 S	9 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.66 .42	.76 .0	.84 .0	1.22 .04	1.64 .04					
	1.77 .017	1.84 .0055	2.3 .0034	2.35 .0						

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BR 80M	HALF LIFE= 4.4 H	11 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0119A .	.0370 .36	.049 .0032	.61620 .07	.63920 .003					
	.66560 .01	.677 .0001	.68740 .0001	.70430 .002	.8120 .0003					
	1.25670 .0007									
BR 80	HALF LIFE= 17.6 M	6 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.6162 .07	.6392 .003	.6656 .01	.677 .0007	.6874 .0001					
	.7043 .002	.812 .0003	1.2567 .0007							
SE 81M	HALF LIFE= 37. M	10 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.1027 .10	.1800 .000094	.27580 .01	.28990 .0079	.33900 .0062					
	.55300 .0013	.56610 .0029	.63040 .00026	.82900 .0037	1.146 .0034					
SE 81	HALF LIFE= 18.6 M	8 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.180 .000094	.2758 .01	.2899 .0079	.3390 .0062	.5530 .0013					
	.5661 .0029	.6304 .00026	.8290 .0037							
KR 81M	HALF LIFE= 13. S	2 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0126A .	.190 .65								
BR 81M	HALF LIFE= H X	PROG 0 GAMMA RAYS								
MB 81	HALF LIFE= 4.7 H	14 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0126A .	.190A .64	.3576 .007	.3682 .003	.4460 .22					
	.4567 .03	.4760 .005	.5377 .024	.5477 .004	.5688 .006					
	.7297 .004	.803A .008	.8354 .007	.9780 .006						
BR 82M	HALF LIFE= 8.1 M	3 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0119A .	.046 .003	.6984 .00014	.7768 .0013	1.4748 .00009					
BR 82	HALF LIFE= 35.5 H	28 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.073 .0013	.0922 .0037	.101 .001	.138 .0015	.1639 .0					
	.2214 .023	.2734 .087	.295 .0015	.4511 .003	.5543 .726					
	.6020 .012	.6191 .374	.6988 .282	.7763 .835	.8278 .243					
	.931 .004	1.010 .016	1.0440 .271	1.084 .004	1.3174 .265					
	1.4749 .167	1.6502 .072	1.782 .0012	1.8226 .0002	1.874 .0003					
	1.959 .0005	2.036 .0007	2.555 .0008							
SE 83M	HALF LIFE= 69. S	22 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.226 .03*	.296 .003*	.324 .019*	.356 1.00*	.384 .011*					
	.444 .024*	.454 .01*	.513 .03*	.676 .86*	.702 .024*					
	.801 .031*	.869 .029*	.912 .01*	.969 .96*	1.031 1.48*					
	1.063 .29*	1.116 .046*	1.563 .06*	1.664 .14*	2.034 .66*					
	2.147 .011*	2.296 .007*								
SE 83	HALF LIFE= 23. M	33 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.224A .44	.261 .0	.3566 .69	.457 .033	.487 .025					
	.512 .42	.554 .029	.572 .041	.606 .025	.7178 .21					
	.801 .14	.837 .13	.868 .083	.886 .083	.997 .0					
	1.065 .055	1.082 .027	1.192 .042	1.299 .083	1.319 .042					
	1.344 .055	1.355 .028	1.421 .007	1.558 .028	1.784 .035					
	1.830 .012	1.855 .028	1.879 .16	1.897 .083	2.088 .007					
	2.291 .09	2.338 .035	2.421 .007							
BR 83	HALF LIFE= 2.4 H	1 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.5210 .014									
KR 83M	HALF LIFE= 1.86M	3 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0093 .09	.0126A .	.0322 .0							
MB 83	HALF LIFE= 83. D	12 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0093 .0	.0126A .	.032 .0	.133 .0	.223 .0					
	.5204 .47	.5296 .304	.5526 .166	.651 .0009	.682 .0003					
	.7901 .0073	.892 .003								
SR 83	HALF LIFE= 33. H	37 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.013A .	.0420 .03*	.0442 .01*	.2902 .014*	.3813 .60*					
	.3892 .040*	.4160 .18*	.4235 .046*	.4382 .027*	.6286 .004*					
	.7366 .005*	.7425 1.00*	.7784 .025*	.8186 .024*	.8487 .004*					
	.8538 .004*	.9075 .005*	.9942 .015*	1.0437 .005*	1.0537 .006*					
	1.0980 .005*	1.1473 .038*	1.1600 .045*	1.2020 .004*	1.2148 .004*					
	1.2376 .005*	1.2426 .003*	1.2960 .004*	1.3246 .005*	1.3840 .005*					
	1.5625 .05*	1.6031 .003*	1.8690 .004*	1.9522 .026*	2.0479 .003*					
	2.0900 .003*	2.1478 .005*								

BR 84	HALF LIFE= 31.8 M	26 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
		ENERGY	ABUNDANCE						
		.27	.005	.43	.025	.44	.08	.47	.01
		.52	.03	.74	.035	.81	.09	.88	.31
		.88	.75	1.21	.04	1.46	.75	1.47	.02
		1.37	.01	1.89	.16	1.90	.18	2.05	.02
		2.17	.02	2.62	.02	3.03	.04	3.28	.03
		3.93	.13						
RB 84M	HALF LIFE= 20. M	5 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
		ENERGY	ABUNDANCE						
		.0133X		.2479	.53	.4637	.32	.89	.048
RB 84	HALF LIFE= 33. D	4 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE		
		ENERGY	ABUNDANCE						
		.0126X		1.016	.009	1.8975	.008		
BR 85	HALF LIFE= 3.0 M	2 GAMMA RAYS		ENERGY	ABUNDANCE				
		ENERGY	ABUNDANCE						
		.78	.0	.90	.0				
KR 85M	HALF LIFE= 4.4 M	3 GAMMA RAYS		ENERGY	ABUNDANCE				
		ENERGY	ABUNDANCE						
		.0126X		.3050	.13				
KR 85	HALF LIFE= 10.76Y	1 GAMMA RAYS		ENERGY	ABUNDANCE				
		ENERGY	ABUNDANCE						
		.514	.0041						
SR 85M	HALF LIFE= 70. M	5 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
		ENERGY	ABUNDANCE						
		.007	.0	.1513	.14	.2317	.85	.2386	.013
SR 85	HALF LIFE= 64. D	2 GAMMA RAYS		ENERGY	ABUNDANCE				
		ENERGY	ABUNDANCE						
		.0133X		.5140	1.00				
Y 85M	HALF LIFE= 2.7 H	5 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
		ENERGY	ABUNDANCE						
		.0141X		.70	.0	.77	.0	.92	.09
Y 85	HALF LIFE= 5.0 H	13 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
		ENERGY	ABUNDANCE						
		.0141X		.70	.0	.77	.08	1.03	.8
		1.13	.0	1.39	.02	1.59	.01	1.87	.04
		2.16	.09	2.75	.01				
BR 86	HALF LIFE= 54. S	12 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
		ENERGY	ABUNDANCE						
		1.20	.08*	1.36	.39*	1.56	1.00*	1.75	.07*
		1.97	.20*	2.75	.56*	3.6	.92*	3.46	.20*
		6.17	.03*	6.76	.01*				
RB 86M	HALF LIFE= 1.04M	2 GAMMA RAYS		ENERGY	ABUNDANCE				
		ENERGY	ABUNDANCE						
		.0133X		.5598	1.00				
RB 86	HALF LIFE= 18.66D	1 GAMMA RAYS		ENERGY	ABUNDANCE				
		ENERGY	ABUNDANCE						
		1.0788	.088						
BR 87	HALF LIFE= 55. S	12 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
		ENERGY	ABUNDANCE						
		1.44	1.00*	2.48	.18*	2.64	.16*	2.98	.25*
		3.18	.16*	4.0	.07*	4.19	.21*	4.1	.17*
		5.0	.17*	5.2	.12*				
KR 87	HALF LIFE= 76. M	12 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
		ENERGY	ABUNDANCE						
		.4030	.50	.836	.02	.8458	.08	1.1795	.04
		1.338	.008	1.741	.002	2.012	.02	2.556	.08
		2.559	.06	3.3098	.007				
SR 87M	HALF LIFE= 2.83H	2 GAMMA RAYS		ENERGY	ABUNDANCE				
		ENERGY	ABUNDANCE						
		.0141X		.5885	.80				
Y 87M	HALF LIFE= 14. H	2 GAMMA RAYS		ENERGY	ABUNDANCE				
		ENERGY	ABUNDANCE						
		.0149X		.3807	.74				

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Y 87	HALF LIFE= 80. H ENERGY ABUNDANCE .0141X .	3 GAMMA RAYS ENERGY ABUNDANCE .3683D .80	ENERGY ABUNDANCE .4648 .92				
ZR 87	HALF LIFE= 1.6 H ENERGY ABUNDANCE .0149X .	3 GAMMA RAYS ENERGY ABUNDANCE 1.2 .0	ENERGY ABUNDANCE 2.2 .0				
BR 88	HALF LIFE= 16. S ENERGY ABUNDANCE .76 .0	1 GAMMA RAYS					
KR 88	HALF LIFE= 2.8 H ENERGY ABUNDANCE .0280 .W .4723 .01 1.1417 .016 1.5298 .14 2.0353 .025 2.3920 .35 3.2194D .004	34 GAMMA RAYS ENERGY ABUNDANCE .1660 .07 .2547 .13 1.1633 .015 1.5355D .002 2.1195D .005 2.5778D .002 3.4678D .002	ENERGY ABUNDANCE .1961 .35 .8624 .005 1.2500 .01 1.7798D .003 2.1959 .18 2.6778D .029 4.7445D .005	ENERGY ABUNDANCE .3626 .05 .8980D .181 1.3835D .011 1.8361D .302 2.2315 .06 2.7341D .002 4.8537D .0003	ENERGY ABUNDANCE .3904 .01 .9867 .01 1.5185D .002 2.0295 .02 2.3524 .002 3.0095D .005		
RB 88	HALF LIFE= 17.8 H ENERGY ABUNDANCE .8980 .181 1.8361 .302 3.0095 .005	15 GAMMA RAYS ENERGY ABUNDANCE 1.3835 .011 2.1195 .005 3.2194 .004	ENERGY ABUNDANCE 1.5185 .002 2.5778 .002 3.4678 .002	ENERGY ABUNDANCE 1.5355 .002 2.6778 .029 4.7445 .005	ENERGY ABUNDANCE 1.7798 .003 2.7341 .002 4.8537 .0003		
Y 88	HALF LIFE= 108. D ENERGY ABUNDANCE .0141X . 3.22 .0003	7 GAMMA RAYS ENERGY ABUNDANCE .8980 .92 3.52 .00007	ENERGY ABUNDANCE 1.36 .03	ENERGY ABUNDANCE 1.8361 1.00	ENERGY ABUNDANCE 2.7341 .0010		
ZR 88	HALF LIFE= 85. D ENERGY ABUNDANCE .0149X .	2 GAMMA RAYS ENERGY ABUNDANCE .3928 .97					
KR 89	HALF LIFE= 3.2 H ENERGY ABUNDANCE .1308 .01 .396 .015 .5772 .08 .825 .02 1.1165 .025 1.5354 .11 1.775 .028 2.120 .017 3.363 .012	42 GAMMA RAYS ENERGY ABUNDANCE .2206 .25 .4114 .015 .5864 .21 .8675 .06 1.173 .01 1.636 .01 1.843 .011 2.261 .02 3.534 .015	ENERGY ABUNDANCE .3453 .02 .4393 .012 .627 .015 .9035 .073 1.324 .016 1.670 .01 1.902 .012 2.618 .014	ENERGY ABUNDANCE .3563 .065 .455 .012 .695 .02 1.010 .01 1.370 .028 1.6916 .047 2.011 .026 2.790 .014	ENERGY ABUNDANCE .3688 .02 .4978 .11 .7376 .04 1.1053 .054 1.4721 .095 1.760 .03 2.020 .017 2.8657 .028		
RB 89	HALF LIFE= 15.4 H ENERGY ABUNDANCE .277 .022 1.0307 .60 2.1949 .17	14 GAMMA RAYS ENERGY ABUNDANCE .290 .005 1.225 .0075 2.567 .12	ENERGY ABUNDANCE .6588 .107 1.2464 .47 2.708 .03	ENERGY ABUNDANCE .770 .004 1.536 .031 3.500 .027	ENERGY ABUNDANCE .9485 .10 2.000 .045		
SR 89	HALF LIFE= 52. D ENERGY ABUNDANCE .91 D .00009	1 GAMMA RAYS					
Y 89M	HALF LIFE= 16. S ENERGY ABUNDANCE .91 .99	1 GAMMA RAYS					
ZR 89M	HALF LIFE= 4.18M ENERGY ABUNDANCE .0149X .	3 GAMMA RAYS ENERGY ABUNDANCE .5878 1.00	ENERGY ABUNDANCE 1.5074 .072				
ZR 89	HALF LIFE= 78.4 H ENERGY ABUNDANCE .0149X . 1.7445 .0013	6 GAMMA RAYS ENERGY ABUNDANCE .9092 1.00	ENERGY ABUNDANCE 1.6208 .00071	ENERGY ABUNDANCE 1.6573 .001	ENERGY ABUNDANCE 1.7129 .0077		
NB 89M	HALF LIFE= 42. H ENERGY ABUNDANCE .588 .93	1 GAMMA RAYS					
NB 89	HALF LIFE= 1.9 H ENERGY ABUNDANCE .5876D 1.00 1.832 .0 2.961 .0 3.513 .0	19 GAMMA RAYS ENERGY ABUNDANCE 1.5074D .072 1.921 .0 3.018 .0 3.577 .5	ENERGY ABUNDANCE 1.520 .0 2.220 .0 3.093 .0 3.838 .5	ENERGY ABUNDANCE 1.626 .5 2.572 .0 3.282 .0 3.908 .0	ENERGY ABUNDANCE 1.713 .0 2.574 .0 3.333 .0		

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KR 90	HALF LIFE= 33. S		31 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.1215	.58	.197	.002	.2341	.046	.2418	.17	.3456	.01	.3456	.01
	.4341	.029	.4553	.029	.5398	.38	.5545	.065	.7311	.017	.7311	.017
	.7861	.004	.9419	.016	.9911	.002	1.1187	.92	1.305	.007	1.305	.007
	1.310	.006	1.4237	.037	1.4635	.005	1.5377	.15	1.5521	.031	1.5521	.031
	1.6582	.016	1.7142	.0004	1.780	.094	1.8347	.004	2.3878	.005	2.3878	.005
	2.708	.003	2.726	.01	2.752	.006	2.752	.006	2.853	.01	2.853	.01
	3.113	.014										
RB 90	HALF LIFE= 2.9 M		23 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.523	.04	.72	.04	.83	.56	.86	.06	1.03	.05	1.03	.05
	1.11	.07	1.24	.02	1.40	.05	1.70	.03	1.82	.05	1.82	.05
	2.20	.02	2.51	.02	2.72	.01	2.84	.02	3.07	.05	3.07	.05
	3.34	.15	3.54	.05	4.13	.11	4.34	.13	4.37	.04	4.37	.04
	4.60	.05	5.1	.02	5.2	.04						
SR 90	HALF LIFE= 28.1 Y		1 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	1.734 D	.U										
Y 90M	HALF LIFE= 3.1 H		5 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.0145X		.2024	.97	.4793	.91	.682	.9	2.233	.004	2.233	.004
Y 90	HALF LIFE= 64. H		1 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	1.734	.U										
ZR 90M	HALF LIFE= .81S		4 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.0137X		.133	.4	2.16	.14	2.31	.86				
NB 90M	HALF LIFE= 24. S		2 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.0165X		.1225	.71								
NB 90	HALF LIFE= 14.6 M		10 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.1325	.05	.1415	.75	.3715	.03	.8900	.004	1.1887	.97	1.1887	.97
	1.2705	.009	1.6121	.04	2.1861	.14	2.2235	.40	2.3187	.62	2.3187	.62
MC 90	HALF LIFE= 5.7 M		16 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.0428	.003	.1225	.71	.1630	.05	.2029	.06	.2373	.85	.2373	.85
	.0230	.076	.4200	.008	.4454	.09	.4722	.021	.4898	.017	.4898	.017
	.9415	.056	.9464	.0068	.9902	.02	1.2713	.08	1.3874	.04	1.3874	.04
	1.4546	.034	1.4655	.005	1.4816	.002						
NB 91	HALF LIFE= 1.7 M		4 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.095	.10	.160	.4	.345	.03	.45	.9				
SR 91	HALF LIFE= 9.67H		10 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.2744	.0135	.6202	.019	.6314	.0061	.6530	.12	.7498	.24	.7498	.24
	.7613	.006	.9258	.04	1.0243	.33	1.2809	.0094	1.4134	.014	1.4134	.014
Y 91M	HALF LIFE= 50. M		2 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.0145X		.5556	.58								
Y 91	HALF LIFE= 58.8 D		1 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	1.2080	.0022										
NB 91M	HALF LIFE= 62. D		3 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.0165X		.1045	.005	1.2050	.03						
MC 91M	HALF LIFE= 66. S		9 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.0165X		.1045	.U	.2534	.0011	.6529	.21	.7329	.0006	.7329	.0006
	1.0825	.0020	1.1567	.0017	1.5080	.10	2.2407	.0037				
MC 91	HALF LIFE= 15.5 M		16 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.0165X		.511 A	.U	1.0507	.11	1.0820	.058	1.1951	.028	1.1951	.028
	1.4469	.037	1.4605	.024	2.5308	.017	2.6313	.36	2.7918	.032	2.7918	.032
	3.0277	.28	3.1487	.15	3.8572	.U	3.8663	.U	3.9163	.U	3.9163	.U
	4.1792											

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SR 92	HALF LIFE= 2.71H	3 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.23 .03	.44 .04	1.3860	.90				
Y 92	HALF LIFE= 3.53H	8 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.4481 .027	.4921 .006	.5809 .028	.8443 .0175	.9345 .14			
	1.4053 .048	1.83 .004	2.06 .0004					
NB 92M	HALF LIFE= 10.18D	4 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0157X .	.9128 .016	.9245 .975	1.8474 .908				
NB 92	HALF LIFE= 350. Y	1 GAMMA RAYS						
	ENERGY ABUNDANCE							
	.088 .0							
SR 93	HALF LIFE= 8. M	24 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.178 .17*	.210 .06*	.255 .13*	.36 .07*	.40 .03*			
	.45 .09*	.53 .07*	.60 .100*	.71 .35*	.88 .73*			
	1.01 .05*	1.08 .09*	1.18 .19*	1.26 .19*	1.55 .04*			
	1.66 .16*	1.74 .04*	1.86 .04*	2.01 .02*	2.12 .02*			
	2.19 .04*	2.29 .04*	2.58 .05*	3.0 .05*				
Y 93	HALF LIFE= 10.2 H	18 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.2670 .06*	.4784 .00011	.6802 .007	.8957 .0027	.9471 .022			
	1.1584 .00037	1.1628 .00044	1.1837 .00044	1.2043 .0032	1.2377 .00023			
	1.4066 .00051	1.4255 .00237	1.4506 .00342	1.4703 .00055	1.6489 .00051			
	1.9178 .0145	2.1848 .0012	2.1912 .0017					
NB 93M	HALF LIFE= 13.6 Y	2 GAMMA RAYS	ENERGY	ABUNDANCE				
	ENERGY ABUNDANCE	ENERGY ABUNDANCE						
	.0165X .	.0304 .0						
MO 93	HALF LIFE= 6.9 M	6 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0174X .	.284 .58	.683 1.00	1.479 1.00	.0165X .			
	.0304D .0							
TC 93M	HALF LIFE= 43. M	4 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE		
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE		
	.0174X .	.0183X .	.390 .63	2.66 .18				
TC 93	HALF LIFE= 2.7 H	6 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0174X .	.86 .03	1.35 .65	1.49 .33	2.03 .004			
	2.44 .004							
SR 94	HALF LIFE= 1.3 M	1 GAMMA RAYS						
	ENERGY ABUNDANCE							
	1.42 1.00							
Y 94	HALF LIFE= 20.3 M	11 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.96 .06	.92 .43	1.13 .05	1.42 .0	1.65 .024			
	1.90 .016	2.13 .024	2.57 .015	2.84 .007	3.06 .013			
	3.53 .011							
NB 94M	HALF LIFE= 6.3 M	4 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE		
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE		
	.0165X .	.0415 .0	.703 .00002	.871 .002				
NB 94	HALF LIFE= 2.0 YD4	2 GAMMA RAYS	ENERGY	ABUNDANCE				
	ENERGY ABUNDANCE	ENERGY ABUNDANCE						
	.7025 1.00	.8711 1.00						
Y 95	HALF LIFE= 10.9 M	2 GAMMA RAYS	ENERGY	ABUNDANCE				
	ENERGY ABUNDANCE	ENERGY ABUNDANCE						
	1.30 .0	1.80 .0						
ZR 95	HALF LIFE= 65. D	2 GAMMA RAYS	ENERGY	ABUNDANCE				
	ENERGY ABUNDANCE	ENERGY ABUNDANCE						
	.7242 .43	.7267 .546						
NB 95M	HALF LIFE= 90. M	2 GAMMA RAYS	ENERGY	ABUNDANCE				
	ENERGY ABUNDANCE	ENERGY ABUNDANCE						
	.0165X .	.2357 1.00*						
NB 95	HALF LIFE= 35. D	1 GAMMA RAYS						
	ENERGY ABUNDANCE							
	.7658 .99							

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TC 95M	HALF LIFE= 61. D	13 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0174X .	.2039 1.00	.2194 .001	.2529 .011	.2822 .351					
	.6165 .024	.7862 .06	.8206 .08	.8351 .45	1.0393 .05					
	1.0570 .0002	1.2225 .0001	1.6202 .0006							
TC 95	HALF LIFE= 20. M	5 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0174X .	.605 .001	.7658 1.00	.9478 .02	1.0741 .04					
RU 95	HALF LIFE= 1.7 H	15 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0183X .	.290 .053	.301 .022	.3364 .70	.352 .015					
	.6272 .13	.806 .027	1.0974 .21	1.163 .01	1.354 .02					
	1.412 .02	1.433 .05	1.460 .02	1.987 .008	2.334 .025					
Y 96	HALF LIFE= 2.3 M	3 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.7 .0	1.0 .0	1.5 .0							
NB 96	HALF LIFE= 23.4 H	20 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.2189 .029	.2416 .033	.3502 .163	.3522 .011	.3718 .039					
	.4601 .27	.4805 .056	.5687 .56	.5917 .01	.7197 .047					
	.7217 .012	.7782 1.00	.8104 .09	.8125 .055	.8498 .21					
	1.0914 .50	1.1280 .007	1.2001 .205	1.4413 .004	1.4979 .029					
ZR 97	HALF LIFE= 17. H	10 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.2543 .013	.3557 .022	.6025 .0138	.7038 .010	.7434 .04					
	1.1480 .0262	1.2761 .009	1.3627 .0108	1.7506 .0108	1.8520 .0026					
NB 97M	HALF LIFE= 1.0 M	1 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.7433 .98									
NB 97	HALF LIFE= 72. M	8 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.6581 .99	.7201 .001	.9098 .0006	1.0222 .012	1.1161 .0009					
	1.2679 .0011	1.2917 .001	1.5141 .0012							
TC 97M	HALF LIFE= 90. D	2 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0183X .	.6965 .0								
IC 97	HALF LIFE= 2.6 YOb	1 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0174X .									
RU 97	HALF LIFE= 2.9 D	10 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0183X .	.1088 .001	.2152 .91	.3242 .11	.4602 .0011					
	.5689 .01	.6444 .0007	.7338 .0008	.7847 .001	.8551 .0005					
NB 98	HALF LIFE= 51. M	16 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.172 .026	.3355 .10	.6446 .045	.7136 .087	.7223 .77					
	.7872 .95	.7920 .05	.8233 .10	1.169 .18	1.435 .072					
	1.511 .061	1.545 .063	1.701 .092	1.866 .034	1.946 .015					
	1.981 .028									
TC 98	HALF LIFE= 1.5 YOb	2 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.66 1.00	.76 1.00								
NB 99	HALF LIFE= 2.4 M	2 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.100 .014	.260 .014								
MO 99	HALF LIFE= 67. M	16 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0183X .11	.0436 .063	.14050 .95	.1426 .009	.1811 .076					
	.3664 .014	.3807 .0001	.4115 .00024	.5289 .00053	.6207 .00004					
	.7397 .14	.7782 .048	.8231 .0014	.9610 .0011	.9682 .00002					
	1.0017 .00006									
TC 99M	HALF LIFE= 55. M	4 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0022 .	.0183X .	.1403 .90	.1423 .09						
NM 99M	HALF LIFE= 4.7 M	10 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.341 .70	.511 .20	.577 .025	.610 .40	.890 .005					
	1.116 .10	1.242 .10	1.263 .07	1.41 .001	1.556 .03					

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RH 99	HALF LIFE= 16. D		36 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.0192X	.	.0894	1.00*	.1194	.0017*	.1752	.076*	.2324	.017*	.2324	.017*
	.2957	.028*	.3224	.22*	.3530	1.01*	.4426	.087*	.4865	.020*	.4865	.020*
	.5277	1.32*	.5732	.008*	.6180	.13*	.7342	.011*	.7639	.015*	.7639	.015*
	.8066	.046*	.8303	.008*	.8972	.022*	.9415	.050*	1.0002	.023*	1.0002	.023*
	1.0612	.006*	1.0894	.010*	1.2083	.006*	1.2921	.012*	1.3239	.005*	1.3239	.005*
	1.3829	.006*	1.4421	.003*	1.4843	.005*	1.5051	.003*	1.5329	.018*	1.5329	.018*
	1.9724	.077*	1.6180	.008*	1.6621	.002*	1.7491	.002*	1.9703	.003*	1.9703	.003*
	2.0586	.001*										
PD 99	HALF LIFE= 22. M		41 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.1360	1.00	.2636	.21	.2933	.018	.3867	.039	.3998	.049	.3998	.049
	.4103	.018	.4273	.027	.6461	.0081	.6504	.018	.6528	.020	.6528	.020
	.6531	.035	.6624	.0053	.6734	.095	.7187	.0059	.7866	.046	.7866	.046
	.8098	.028	.8176	.015	.9671	.013	1.0134	.020	1.0465	.0060	1.0465	.0060
	1.0717	.0122	1.0996	.014	1.1572	.0091	1.1656	.010	1.2310	.010	1.2310	.010
	1.2564	.014	1.3230	.011	1.3356	.064	1.5048	.0074	1.6141	.0066	1.6141	.0066
	1.6805	.0065	1.6973	.0076	1.7176	.0088	1.8516	.0062	1.9047	.0090	1.9047	.0090
	1.9248	.0065	1.9991	.011	2.1424	.0057	2.2462	.011	2.3246	.0075	2.3246	.0075
	2.5363	.0080										
NB100	HALF LIFE= 3.0 M		14 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.140	.10*	.36	.55*	.45	.40*	.53	1.90*	.535	1.00*	.535	1.00*
	.62	.60*	.85	.U	1.09	.10*	1.15	.10*	1.47	.03*	1.47	.03*
	2.2	.U	2.3	.U	2.65	.U	2.65	.U				
TC100	HALF LIFE= 17. S		9 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.542	.S	.60	.S	.71	.U	.81	.U	.89	.U		
	1.01	.U	1.31	.U	1.49	.U	1.8	.U				
MO101	HALF LIFE= 14.6 M		35 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.0812	.03	.1920	.25	.196	.02	.334	.07	.378	.W	.378	.W
	.398	.W	.408	.W	.421	.W	.499	.W	.506	.W	.506	.W
	.512	.15	.567	.W	.5908	.21	.608	.U	.643	.U	.643	.U
	.695	.11	.805	.U	.871	.U	.877	.15	.934	.02	.934	.02
	1.0124	.25	1.161	.01	1.187	.11	1.199	.W	1.251	.W	1.251	.W
	1.303	.03	1.357	.09	1.533	.11	1.600	.W	1.674	.03	1.674	.03
	1.759	.W	1.839	.W	2.033	.W	2.041	.W	2.089	.16	2.089	.16
TC101	HALF LIFE= 14.0 M		15 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.1273	.03	.180	.004	.184	.023	.233	.W	.237	.W	.237	.W
	.3068	.91	.531	.W	.5449	.08	.627	.01	.714	.U	.714	.U
	.719	.U	.811	.U	.893	.0036	.928	.U	.938	.0023	.938	.0023
RH101M	HALF LIFE= 4.5 D		43 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.0192X	.	.0201X	.	.0216	.018	.128	.U	.131	.40	.131	.40
	.150	.04	.158	2.76	.160	.05	.175	.047	.1794	.U	.1794	.U
	.1839	.U	.222	.10	.227	.095	.2354	.U	.239	.07	.239	.07
	.247	.08	.255	.07	.270	.047	.288	.U	.298	.047	.298	.047
	.303	.055	.309	.83	.314	.024	.318	.024	.335	.016	.335	.016
	.370	.016	.385	.052	.398	.055	.417	.024	.435	.024	.435	.024
	.481	.047	.525	.024	.548	.06	.563	.032	.576	.027	.576	.027
	.612	.U	.707	.21	.731	.016	.751	.018	.803	.012	.803	.012
	.834	.012	.860	.008	.934	.008						
NH101	HALF LIFE= 3. Y		5 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.1272	.88	.1979	.75	.295	.0098	.3280	.11	.422	.002	.422	.002
PD101	HALF LIFE= 8.4 M		40 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.0201X	.	.0245	.U	.023	.U	.130	.U	.153	.08	.153	.08
	.170	.U	.270	.08	.290	.10	.296	.30	.315	.U	.315	.U
	.323	.011	.410	.024	.420	.03	.432	.046	.4532	.012	.4532	.012
	.464	.U	.472	.015	.566	.07	.590	.24	.721	.018	.721	.018
	.723	.05	.743	.012	.764	.015	.780	.015	.85	.U	.85	.U
	.89	.U	.993	.017	1.00	.U	1.04	.U	1.177	.005	1.177	.005
	1.20	.033	1.219	.0076	1.289	.03	1.313	.033	1.47	.0046	1.47	.0046
	1.48	.0046	1.51	.006	1.53	.006	1.64	.01	1.67	.006	1.67	.006
TC102	HALF LIFE= 4.5 M		18 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.4158	.02	.4188	.034	.4748	1.00	.6275	.17	.6308	.29	.6308	.29
	.6918	.027	.6956	.030	1.0963	.13	1.1046	.13	1.1978	.11	1.1978	.11
	1.2926	.054	1.3318	.037	1.6128	.073	1.6170	.11	2.2270	.071	2.2270	.071
	2.2442	.13	2.3393	.01	2.4378	.046						
RH102M	HALF LIFE= 2.9 Y		9 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.4188	.112	.4751	.93	.6282	.07	.6314	.52	.6976	.432	.6976	.432
	.7670	.33	1.0468	.31	1.1033	.045	1.1129	.18				
NH102	HALF LIFE= 206. D		22 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.4153	.0003	.4185	.0012	.4564	.0008	.4686	.029	.4751	.46	.4751	.46
	.6281	.045	.6313	.001	.6368	.0023	.6807	.0058	.7339	.001	.7339	.001
	.7396	.0053	.9305	.0003	1.0465	.0043	1.1032	.029	1.1037	.0039	1.1037	.0039
	1.1581	.0058	1.3621	.0039	1.5622	.0011	1.5805	.0005	1.7864	.0001	1.7864	.0001
	2.0370	.0003	2.2615	.0002								

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TC103	HALF LIFE= 30. S	3 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.135 .17*	.21 .10*	.35	. U						
MU103	HALF LIFE= 39.6 D	10 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0201X .	.0395 .0007	.0533 .0039	.1135 .00012	.2418 .00014					
	.2952 .003	.4440 .0038	.4491 .90	.5371 .0084	.6103 .056					
RH103	HALF LIFE= 57. M	2 GAMMA RAYS	ENERGY	ABUNDANCE						
	.0201X .	.040 .004								
PD103	HALF LIFE= 17. D	9 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0201X .00014	.0397 .0007	.0533 .000003	.0623 .00004	.2947 .00011					
	.3180 .0000004	.3570 .00061	.4441 .0000007	.4967 .00014						
AG103M	HALF LIFE= 5.7 S	2 GAMMA RAYS	ENERGY	ABUNDANCE						
	.0220X .	.138 . U								
AG103	HALF LIFE= 66. M	17 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0210X .	.118 .26	.148 .123	.233 .10	.268 .34					
	.420 .U	.340 .U	.355 .U	.585 .U	.655 .U					
	.740 .U	1.002 .10	1.1 .U	1.14 .09	1.27 .13					
	1.36 .U	1.36 .U								
MO104	HALF LIFE= 1.3 M	1 GAMMA RAYS	ENERGY	ABUNDANCE						
	.070 .U									
TC104	HALF LIFE= 18. M	19 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.3577 .U	.53 .U	.63 .U	.89 .U	1.13 .U					
	1.23 .U	1.37 .U	1.58 .U	1.63 .U	1.9 .U					
	2.2 .U	2.5 .U	2.7 .U	3.2 .U	3.4 .U					
	3.7 .U	4.0 .U	4.4 .U	4.7 .U						
RH104M	HALF LIFE= 4.41M	12 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0201X .	.0314 .U	.0314 .47	.0775 .025	.0971 .026					
	.156 .0018	.768 .0011	.77 .0013	.93 .0003	1.239 .0002					
	1.53 .0003	1.70 .0003								
RH104	HALF LIFE= 43. S	4 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE				
	.0192X .	.5558 .02	1.239 .0013	1.80 .00002						
TC105	HALF LIFE= 7.7 M	16 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0553 .05*	.0752 .06*	.0623 .20*	.1079 .75*	.1135 .06*					
	.1270 .08*	.1342 .25*	.1432 .100*	.1591 1.00*	.226 .20*					
	.2522 .33*	.2726 .15*	.3211 .65*	.335 .19*	.350 .40*					
	.462 .40*									
RU105	HALF LIFE= 4.44H	21 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.1295 .048	.1490 .015	.2628 .0653	.3165 .102	.3261 .0107					
	.1549 .00022	.3502 .0132	.3934 .0386	.4135 .023	.4694 .175					
	.3309 .00016	.5752 .0103	.6562 .0193	.6763 .15	.7242 .445					
	.4993 .0227	.9694 .0200	1.35 .001	1.58 .001	1.58 .001					
	.8798 .0294									
	1.73 .001									
RH105M	HALF LIFE= 45. S	2 GAMMA RAYS	ENERGY	ABUNDANCE						
	.0201X .	.1300 1.00*								
RH105	HALF LIFE= 35.9 M	7 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0388 .0002	.2158 .00113	.2803 .0016	.3063 .0544	.3192 .196					
	.4423 .00037	.4970 .00096								
AG105	HALF LIFE= 40. D	44 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0210X .	.0639 .10	.0900 .00016	.1123 .00007	.1353 .005					
	.1549 .00022	.1827 .0039	.1866 .00002	.1874 .000009	.2804 .32					
	.2851 .000016	.2859 .000016	.2867 .00001	.2892 .000013	.3061 .009					
	.3190 .000004	.3253 .000002	.3284 .00003	.3314 .00049	.3444 .42					
	.3505 .000004	.3606 .000016	.3701 .000007	.3923 .00016	.4015 .00003					
	.4027 .000006	.4078 .000009	.4144 .000016	.4209 .000016	.4371 .00004					
	.4433 .10	.4465 .000003	.5607 .000019	.6177 .000036	.6366 .000002					
	.6444 .069	.6507 .000035	.6732 .000016	.6814 .000001	.7272 .000002					
	.7437 .000003	.8076 .000006	.9628 .00011	1.0480 .07						

CD105 HALF LIFE= 6.04H		42 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0030X	.U	.3077	.0032	.3190	.0027	.3471	.0084	.4331	.0067
.5106	.26	.5382	.0013	.6066	.0100	.6478	.0027	.7455	.0011
.8840	.0013	.9334	.0022	.9475	.0012	.9611	.0100	1.0377	.0012
1.0711	.0027	1.2741	.0016	1.3016	.0098	1.3388	.0019	1.3602	.0012
1.3879	.0060	1.4150	.0039	1.4883	.0011	1.5574	.0045	1.5826	.0013
1.6352	.0024	1.6437	.0020	1.6646	.0027	1.6929	.0080	1.7242	.0014
1.8695	.0017	1.8966	.0052	1.9099	.0013	1.9329	.0042	1.9606	.0022
1.9859	.0017	2.0282	.0016	2.2498	.0012	2.2744	.0042	2.3008	.0012
2.3338	.0045	2.4239	.0011						
RU106 HALF LIFE= 367. D		41 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.4297D	.00092	.4350D	.00047	.5118D	.205	.5780D	.00008	.6162D	.0081
.6218D	.0976	.6612D	.00015	.6801D	.00007	.7162D	.00016	.7171D	.00015
.7746D	.00008	.8731D	.00414	1.0301D	.0145	1.0621D	.00024	1.1089D	.00005
1.1146D	.00008	1.1280D	.00383	1.1791D	.00014	1.1806D	.00014	1.1943D	.00053
1.4964D	.00026	1.5620D	.00146	1.5927D	.00008	1.6007D	.00008	1.7662D	.00023
1.7890D	.00006	1.7967D	.00023	1.8548D	.00008	1.9094D	.00006	1.9268D	.00013
1.9272D	.00013	1.9885D	.00022	2.0941D	.00006	2.1932D	.00005	2.1940D	.00005
2.3087D	.00006	2.3094D	.00006	2.3176D	.00006	2.3664D	.00021	2.3908D	.00007
2.4060D	.00012								
RH106 HALF LIFE= 30. S		41 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.4297	.00092	.4350	.00047	.5118	.205	.5780	.00008	.6162	.0081
.6218	.0976	.6612	.00015	.6801	.00007	.7162	.00016	.7171	.00015
.7746	.00008	.8731	.00414	1.0301	.0145	1.0621	.00024	1.1089	.00005
1.1146	.00008	1.1280	.00383	1.1791	.00014	1.1806	.00014	1.1943	.00053
1.4964	.00026	1.5620	.00146	1.5927	.00008	1.6007	.00008	1.7662	.00023
1.7890	.00006	1.7967	.00023	1.8548	.00008	1.9094	.00006	1.9268	.00013
1.9272	.00013	1.9885	.00022	2.0941	.00006	2.1932	.00005	2.1940	.00005
2.3087	.00006	2.3094	.00006	2.3176	.00006	2.3664	.00021	2.3908	.00007
2.4060	.00012								
AG106M HALF LIFE= 8.4 D		31 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0210X	.U	.2215	.083	.2285	.029	.3283	.018	.3909	.043
.4080	.15	.4295	.16	.4508	.31	.4742	.012	.5118	1.002
.6009	.023	.6160	.243	.6435	.018	.6803	.025	.7033	.092
.7171	.32	.7482	.23	.7928	.065	.8039	.124	.8075	.042
.8245	.16	.8473	.045	1.0437	.28	1.1278	.106	1.1991	.106
1.2228	.061	1.3942	.017	1.5270	.15	1.5721	.07	1.7221	.015
1.8379	.020								
AG106 HALF LIFE= 24. M		8 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0210X	.U	.5117	.17	.6139	.U	.6221	.U	.874	.U
1.052	.U	1.129	.U	1.195	.U				
RU107 HALF LIFE= 4.2 M		7 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.195	.14	.37	.U	.48	.U	.66	.07	.93	.04
1.03	.04	1.29	.04						
RH107 HALF LIFE= 22. M		22 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0801	.0005	.1156	.0052	.2194	.0010	.2324	.0021	.2661	.0028
.2776	.017	.2883	.0075	.3028	.66	.3122	.048	.3218	.023
.3482	.023	.3578	.0041	.3673	.019	.3819	.0065	.3925	.088
.4319	.0031	.4712	.0012	.5544	.0008	.5677	.011	.6700	.022
.7095	.00075	.7899	.00089						
AG107M HALF LIFE= 44.3 S		2 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0220X	.U	.0932	.05						
CD107 HALF LIFE= 6.5 H		20 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0220X	.U	.0326	.U	.0532D	.05	.3007	.0003	.3246	.0034
.4224	.0018	.5264	.00018	.5568	.00007	.6245	.00012	.7198	.00007
.7867	.00008	.7960	.0008	.7998	.00006	.818	.00010	.8289	.0021
.897	.00004	.9490	.000018	1.049	.00002	1.130	.00012	1.224	.000017
IN107 HALF LIFE= 32. M		12 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0230X	.U	.22	.46	.32	.U	.73	.U	.84	.U
.94	.U	1.05	.U	1.25	.U	1.52	.U	1.72	.U
1.94	.U	2.26	.U						
RU108 HALF LIFE= 4.5 M		4 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.165	.28	.434	.43	.51	.10	.62	.22		
RH108M HALF LIFE= 6. M		12 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.4046	.30	.4342	1.00	.4973	.25	.5811	.84	.6146	.30
.7230	.08	.9014	.33	.9213	.10	.9471	.25	1.0927	.032
1.2343	.087	1.8156	.065						

MH108	HALF LIFE= 17. S	12 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
		ENERGY	ABUNDANCE						
		.4342	.43						
		1.52	.05						
AG108M	HALF LIFE= 5. Y	13 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
		ENERGY	ABUNDANCE						
		.0210X	.0645						
		.43360	.90						
AG108	HALF LIFE= 2.42M	7 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
		ENERGY	ABUNDANCE						
		.0210X	.0002						
		.841	.0002						
PD109M	HALF LIFE= 4.7 M	2 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
		ENERGY	ABUNDANCE						
		.0210X	.58						
PD109	HALF LIFE= 13.47M	29 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
		ENERGY	ABUNDANCE						
		.0447	.000045						
		.3093	.00009						
AG109M	HALF LIFE= 40. S	2 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
		ENERGY	ABUNDANCE						
		.0220X	.05						
CO109	HALF LIFE= 453. D	2 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
		ENERGY	ABUNDANCE						
		.0220X	.05						
IN109M1	HALF LIFE= 1.3 M	1 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
		ENERGY	ABUNDANCE						
		.658	.0						
IN109	HALF LIFE= 4.3 M	54 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
		ENERGY	ABUNDANCE						
		.2035	.00						
		.4205	.013						
MH110	HALF LIFE= 5. S	1 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
		ENERGY	ABUNDANCE						
		.375	.0						
AG110M	HALF LIFE= 253. D	16 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
		ENERGY	ABUNDANCE						
		.1164	.0						
		.6868	.070						
AG110	HALF LIFE= 24.4 S	20 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
		ENERGY	ABUNDANCE						
		.6576	.045						
		1.40	.0						
PD111M	HALF LIFE= 5.5 M	59 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
		ENERGY	ABUNDANCE						
		.0599	.013						
		.1694	.014						

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PD111 HALF LIFE= 22. M		46 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0999	.63*	.0702	.80*	.1694	.06*	.2305	.02*	.2986	.097*		
.3169	.016*	.3526	.013*	.3767	.05*	.3913	.04*	.4049	.086*		
.4387	.063*	.4767	.06*	.4785	.02*	.4859	.04*	.4942	.01*		
.5089	.26*	.5165	.02*	.5192	.01*	.5471	.04*	.5529	.02*		
.5801	1.00*	.6111	.015*	.6232	.39*	.6506	.68*	.6577	.017*		
.6857	.045*	.7100	.15*	.7460	.014*	.7756	.046*	.8039	.040*		
.8085	.030*	.8357	.34*	.9205	.015*	.9500	.010*	.9551	.04*		
1.0022	.06*	1.0261	.01*	1.0598	.015*	1.0671	.015*	1.1202	.18*		
1.2697	.01*	1.3684	.85*	1.4587	.88*	1.5424	.029*	1.5741	.037*		
1.6443	.023*										
CD111M HALF LIFE= 48.6 M		4 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0232X	.	.097	.0	.1508	.25	.2454	.75				
AG111M HALF LIFE= 74. S		2 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0222X	.	.063	.0								
AG111 HALF LIFE= 7.5 D		12 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0222X	.	.0955	.014	.174	.0	.2003	.0	.2464	.10		
.2788	.0	.3414	.90	.3742	.0	.4130	.0	.5085	.0		
.6206	.0	.7549	.0								
IN111 HALF LIFE= 2.8 D		3 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0232X	.	.1714	.89	.2454	.74						
SN111 HALF LIFE= 35. M		26 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0242X	.	.2591	.02	.3720	.16	.4572	.15	.5362	.087		
.5642	.088	.6367	.039	.6506	.03	.7617	.54	.8146	.044		
.8467	.088	.9558	.18	1.0265	.085	1.1014	.25	1.1525	1.00		
1.1700	.026	1.2927	.058	1.3680	.058	1.4999	.058	1.5416	.27		
1.6094	.47	1.9138	.69	2.1080	.16	2.1115	.027	2.1786	.095		
2.2115	.073	2.2903	.018	2.3225	.11						
PD112 HALF LIFE= 21. M		13 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0185	.20	.52980	.0058	.60670	.0344	.61740	.435	.63810	.026		
.69430	.043	.74320	.024	.79780	.0074	.85150	.0127	1.38790	.050		
1.61380	.0273	2.10620	.0222	2.50690	.0085						
AG112 HALF LIFE= 3.2 H		12 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.5298	.0058	.6067	.0344	.6174	.435	.6381	.026	.6943	.043		
.7432	.024	.7978	.0074	.8515	.0127	1.3879	.050	1.6138	.0273		
2.1062	.0222	2.5069	.0085								
IN112M HALF LIFE= 20.7 M		2 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0242X	.	.155	.09								
IN112 HALF LIFE= 14. M		4 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.621	.06	.85	.004	1.24	.005	1.48	.003				
CD113M HALF LIFE= 14. Y		2 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0232X	.	.265	.001								
AG113M HALF LIFE= 1.2 M		6 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.136	.56	.2980	.33	.3156	.66	.339	.03	.373	.04		
.391	.36										
AG113 HALF LIFE= 5.3 H		14 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0972	.5	.2588	.5	.2986	1.00*	.3162	.5	.3351	.5		
.3393	.5	.3646	.5	.3820	.5	.3837	.05*	.6724	.09*		
.6809	.08*	.8840	.04*	.9887	.02*	1.1958	.04*				
IN113M HALF LIFE= 100. M		1 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.3917	.64										
SN113M HALF LIFE= 20. M		3 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0242X	.	.0253X	.	.0793	.006						
SN113 HALF LIFE= 115. D		3 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.2552	.035 *	.39140	1.00 *	.648	.0015*						

PD114	HALF LIFE= 2.4 M ENERGY ABUNDANCE .57 U	1 GAMMA RAYS					
AG114	HALF LIFE= 4.5 S ENERGY ABUNDANCE .57 U	1 GAMMA RAYS					
IN114M	HALF LIFE= 50.0 D ENERGY ABUNDANCE .0242X	5 GAMMA RAYS ENERGY ABUNDANCE .1899 .177	ENERGY ABUNDANCE .5583 .0465	ENERGY ABUNDANCE .7252 .0455	ENERGY ABUNDANCE 1.3002 .0018		
IN114	HALF LIFE= 72. S ENERGY ABUNDANCE .0232X	4 GAMMA RAYS ENERGY ABUNDANCE .5757 .0011	ENERGY ABUNDANCE .7478 .0009	ENERGY ABUNDANCE 1.3000 .041			
AG115	HALF LIFE= 20. M ENERGY ABUNDANCE .1314 .14* .3033 .034* .4173 .017* .6992 .10* 1.1833 .014* 1.6086 .010* 1.9276 .070*	33 GAMMA RAYS ENERGY ABUNDANCE .2135 .25* .3265 .10* .4732 .19* .7779 .031* 1.3840 .012* 1.6651 .012* 2.1142 .061*	ENERGY ABUNDANCE .2297 1.00* .3609 .033* .5077 .071* .9638 .024* 1.3799 .029* 1.7954 .015* 2.1568 .16*	ENERGY ABUNDANCE .2371 .022* .3726 .10* .5483 .011* 1.0919 .020* 1.4071 .010* 1.8420 .088*	ENERGY ABUNDANCE .2435 .018* .3893 .019* .6499 .14* 1.1516 .010* 1.5074 .067* 1.8849 .021*		
CD115M	HALF LIFE= 43. D ENERGY ABUNDANCE .159 1.2899 .009	6 GAMMA RAYS ENERGY ABUNDANCE .3363U .45	ENERGY ABUNDANCE .4849 .31	ENERGY ABUNDANCE .9391 .019	ENERGY ABUNDANCE 1.133 .00095		
CD115	HALF LIFE= 53.5 H ENERGY ABUNDANCE .0242X .4923 .081	7 GAMMA RAYS ENERGY ABUNDANCE .035 .005 .5275 .275	ENERGY ABUNDANCE .2314 .00702	ENERGY ABUNDANCE .2609 .0185	ENERGY ABUNDANCE .270 .0017		
IN115M	HALF LIFE= 4.50M ENERGY ABUNDANCE .3363 .45	1 GAMMA RAYS					
SB115	HALF LIFE= 31.8 M ENERGY ABUNDANCE .0223X .986 .0038 1.207 .0009 1.729 .0019	19 GAMMA RAYS ENERGY ABUNDANCE .1145 .0016 1.008 .0036 1.236 .0068 1.822 .0604	ENERGY ABUNDANCE .491 .037 1.097 .0007 1.279 .0029 1.870 .0006	ENERGY ABUNDANCE .499 1.00 1.121 .0013 1.621 .0039 2.224 .0013	ENERGY ABUNDANCE .748 .0019 1.136 .0016 1.690 .0011		
TE115	HALF LIFE= 6.0 M ENERGY ABUNDANCE .0264X 1.38 .32	8 GAMMA RAYS ENERGY ABUNDANCE .72 .34 1.58 .06	ENERGY ABUNDANCE .96 .06 2.20 .02	ENERGY ABUNDANCE 1.08 .24	ENERGY ABUNDANCE 1.28 .32		
AG116	HALF LIFE= 2.5 M ENERGY ABUNDANCE .52 .10 *	2 GAMMA RAYS ENERGY ABUNDANCE .70 .02 *					
IN116M1	HALF LIFE= 54. M ENERGY ABUNDANCE 1.1383 .03 1.2933 .80	10 GAMMA RAYS ENERGY ABUNDANCE .325 .01 1.508 .11	ENERGY ABUNDANCE .5170 .36 1.72 .004	ENERGY ABUNDANCE .5187 .17 1.753 .015	ENERGY ABUNDANCE 1.0972 .53 2.111 .20		
IN116	HALF LIFE= 14. S ENERGY ABUNDANCE .45 .0012	5 GAMMA RAYS ENERGY ABUNDANCE .95 .001	ENERGY ABUNDANCE 1.27 .012	ENERGY ABUNDANCE 2.0 .0001	ENERGY ABUNDANCE 2.2 .0002		
CD117M	HALF LIFE= 3.4 H ENERGY ABUNDANCE .0242X .1314 .08 .565 .06 .762 .W 1.029 .04 1.233 .07 1.408 .08 1.723 .08 2.1319 .03	43 GAMMA RAYS ENERGY ABUNDANCE .089 .04 .343 .04 .631 .02 .832 .U 1.032 .U 1.248 .03 1.433 .10 1.939 .U 2.394 .W	ENERGY ABUNDANCE .161 .05 .386 .05 .702 .03 .862 .03 1.065 .09 1.260 .02 1.652 .W 1.9974 .15 2.407 .W	ENERGY ABUNDANCE .222 .U .434 .04 .715 .04 .880 .10 1.117 .04 1.358 .08 1.659 .W 2.095 .02	ENERGY ABUNDANCE .293 .U .462 .U .748 .03 .931 .02 1.165 .W 1.371 .W 1.682 .03 2.311 .W		
CD117	HALF LIFE= 2.4 M ENERGY ABUNDANCE .0242X .295 .U .565 .U 1.009 .002 1.381 .006	25 GAMMA RAYS ENERGY ABUNDANCE .089 .07 .314 .16 .632 .04 1.052 .05 1.397 .02	ENERGY ABUNDANCE .161 .U .345 .16 .680 .03 1.142 .02 1.5761 .10	ENERGY ABUNDANCE .222 .U .434 .15 .947 .02 1.274 .003 1.708 .02	ENERGY ABUNDANCE .2733 .31 .462 .U .964 .01 1.303 .19 1.835 .U		

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IN117M	HALF LIFE= 1.93H	4 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0242X	.1586 .14	.3153	.31	.5525D	1.00		
IN117	HALF LIFE= 44. M	3 GAMMA RAYS	ENERGY	ABUNDANCE				
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE				
	.0253X	.1586 .87	.5525	1.00				
SN117M	HALF LIFE= 14. D	3 GAMMA RAYS	ENERGY	ABUNDANCE				
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE				
	.0253X	.1584 .87	.162	.0				
SB117	HALF LIFE= 2.8 H	14 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0253X	.1585 .87	.5531	.0007	.8462	.0004	.8617	.0029
	1.0045 .0022	1.0206 .0009	1.0210 .001		1.1567	.00022	1.2676	.00026
	1.3395 .00009	1.4201 .00016	1.4464	.00051	1.578D	.00018		
TE117	HALF LIFE= 1.14H	18 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0264X	.5688 .010*	.6345	.007*	.7197	1.00*	.8310	.008*
	.8867 .021*	.9235 .096*	.9302	.003*	.9967	.061*	1.0907	.11*
	1.3545 .006*	1.3605 .007*	1.4565	.013*	1.5651	.015*	1.5805	.003*
	1.7164 .24*	2.2848 .006*	2.3000	.17*				
SD118	HALF LIFE= 49. M	3 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.525 D .14	.806 D .06	1.220 D	1.00	1.680 D	.03	1.880 D	.03
IN118	HALF LIFE= 4.4 M	17 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.21 .03	.44 .07	.525	.14	.64	.10	.69	.42
	.806 .06	.81 .07	1.05	.83	1.220	1.00	1.23	.97
	1.25 .06	1.49 .014	1.54	.010	1.680	.03	1.73	.004
	1.860 .03	2.04 .03						
SB118M1	HALF LIFE= 5.1 M	3 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0407 .29	.2535 .93	1.099	1.00	1.090	.0	1.229	1.00
SB118	HALF LIFE= 3.5 M	4 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE		
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE		
	.0253X	.83 .0	1.23	.0	1.25	.0		
TE118	HALF LIFE= 6.0 D	4 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE		
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE		
	.0253D	.83 D .0	1.23 D	.0	1.25 D	.0		
CD119	HALF LIFE= 2.7 M	4 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE		
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE		
	.300 .13	.772 1.00	1.05	.20	1.74	.20		
IN119M	HALF LIFE= 17.5 M	6 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.024 .0	.0242X .	.30	.0	.73 D	.047	.82 D	.93
	.91 .0							
IN119	HALF LIFE= 2.1 M	2 GAMMA RAYS	ENERGY	ABUNDANCE				
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE				
	.73 .047	.82 .93						
SN119M	HALF LIFE= 250. D	3 GAMMA RAYS	ENERGY	ABUNDANCE				
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE				
	.0242 .16	.0253X .	.0653	.0				
SB119	HALF LIFE= 38. M	2 GAMMA RAYS						
	ENERGY ABUNDANCE	ENERGY ABUNDANCE						
	.0238 .16	.0253A .						
TE119M	HALF LIFE= 4.7 D	19 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0253X	.0264X .	.1135	.007*	.1530	.99*	.1639	.017*
	.2706 .39*	.9123 .10*	.9421	.065*	.9764	.039*	.9790	.045*
	1.0129 .039*	1.0483 .047*	1.0810	.023*	1.0960	.034*	1.1360	.12*
	1.2127 1.00*	1.3656 .020*	2.0130	.003*	2.0897	.059*		
TE119	HALF LIFE= 16. H	13 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0264X .	.2706 .002*	.3737	.002*	.6443	1.00*	.7000	.113*
	.7873 .002*	.8432 .003*	1.1055	.008*	1.1209	.002*	1.1772	.010*
	1.3385 .002*	1.4132 .011*	1.7493	.044*				

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IN120	HALF LIFE= 46. S	21 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.090 .12	.198 .09	.26 .01	.34 .01	.41 .02					
	.61 .03	.71 .12	.86 .38	.94 .12	1.02 .61					
	1.17 .15	1.17 1.00	1.19 .07	1.28 .14	1.47 .06					
	1.87 .07	2.01 .06	2.1 .0	2.22 .03	2.40 .01					
	2.63 .02									
SB120M	HALF LIFE= 5.8 D	3 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0899 .77	.1972 .89	1.0231 .99	1.1129 .010	1.1713 1.00					
SB120	HALF LIFE= 15.9 M	2 GAMMA RAYS	ENERGY	ABUNDANCE						
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0253X .	1.171 .013								
IN121	HALF LIFE= 30. S	1 GAMMA RAYS								
	ENERGY ABUNDANCE									
	.94 .0									
SN121M	HALF LIFE= 76. Y	2 GAMMA RAYS	ENERGY	ABUNDANCE						
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0264X .	.0371 .10								
TE121M	HALF LIFE= 124. D	10 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0264X .	.0275X .	.098 .0	.002	1.00 .002	.0818 .0	.103 .0002			
	.2122 .0	.214 .0	.91 .002				1.10 .034			
TE121	HALF LIFE= 17. D	6 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0264X .	.0372 .0	.0656 .0033	.4704 .0	.9075 .18					
	.5731 .80									
I 121	HALF LIFE= 2.1 M	24 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0275X .	.2125 .14	.2304 .00048	.2443 .00018	.2628 .00019					
	.2790 .00024	.2940 .00010	.3197 .0017	.3382 .0008	.4713 .0014					
	.4750 .0017	.5391 .010	.5950 .0006	.5987 .0025	.6781 .00012					
	.6934 .00026	.6997 .00030	.7821 .00013	.8069 .00039	.9368 .00032					
	1.0145 .00047	1.0365 .00013	1.0947 .00011	1.1514 .00014						
IN122	HALF LIFE= 8. S	3 GAMMA RAYS	ENERGY	ABUNDANCE						
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.99 .0	1.14 .0	1.16 .0							
SB122M	HALF LIFE= 4.2 M	4 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE				
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.026 .0	.0264X .	.0607 .30	.0753 .17						
SB122	HALF LIFE= 2.8 D	9 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0264X .	.0639 .66	.5641 .83	.686 .034	.6928 .0327					
	1.140 .007	1.1406 .0066	1.2568 .0085	1.26 .007						
IN123	HALF LIFE= 10. S	1 GAMMA RAYS								
	ENERGY ABUNDANCE									
	1.1 .0									
SN123M	HALF LIFE= 42. M	4 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE				
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.1602 1.00	.381 .0004	.542 .0002	.552 .00007						
SN123	HALF LIFE= 125. D	1 GAMMA RAYS								
	ENERGY ABUNDANCE									
	1.08 .0									
TE123M	HALF LIFE= 117. D	3 GAMMA RAYS	ENERGY	ABUNDANCE						
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0275X .	.0885 .0	.1588 .84							
I 123	HALF LIFE= 13.3 M	13 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0275X .	.1391 1.00	.1637 .0003	.1927 .0003	.2483 .0008					
	.2810 .0008	.3464 .0012	.4404 .0042	.5036 .0031	.5290 .013					
	.5385 .0032	.6249 .0008	.6877 .0003	.7361 .0004	.7844 .0003					
IN124	HALF LIFE= 4. S	3 GAMMA RAYS	ENERGY	ABUNDANCE						
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.99 .03	2.13 .10	3.21 .03							

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BA131 HALF LIFE= 12. 0		30 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0548	.00046	.0787	.0045	.0922	.0037	.1237	.14	.1335	.010
.1373	.0009	.1370	.0013	.2180	.10	.2396	.012	.2468	.0035
.2494	.015	.3512	.00088	.3732	.076	.4043	.0067	.4277	.0006
.4517	.0004	.4613	.0005	.4806	.0030	.4866	.0098	.4962	.24
.5731	.00078	.5851	.0069	.6202	.0073	.6742	.0007	.6965	.0009
.8320	.0015	.9141	.0004	.9244	.0040	.9691	.0026	1.0482	.0078
TE132 HALF LIFE= 78. H		45 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0286A	.	.053	.17	.1119	.011	.1165	.012	.2282	.68
.2408	.0023	.2628D	.013	.2847D	.0102	.4166D	.0044	.4318D	.0043
.4461D	.0064	.5057D	.047	.5226D	.156	.5488D	.010	.6210D	.0208
.6302D	.135	.6506D	.022	.6677D	.98	.6710D	.060	.7275D	.068
.7727D	.75	.8100D	.028	.8126D	.080	.8644D	.0037	.8779D	.0106
.9103D	.0094	.9281D	.0047	.9346D	.167	.9841D	.0065	1.0346D	.00504
1.1352D	.0292	1.1426D	.0135	1.1471D	.0032	1.1722D	.0113	1.2718D	.0015
1.2895D	.013	1.2950D	.0184	1.3717D	.0228	1.3985D	.068	1.4426D	.0135
1.4767D	.00124	1.5199D	.00084	1.7570D	.0032	1.9217D	.0114	2.0017D	.012
I 132 HALF LIFE= 2.3 H		39 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.2628	.013	.2647	.0102	.4166	.0044	.4318	.0043	.4461	.0064
.5057	.047	.5226	.156	.5488	.010	.6210	.0208	.6302	.135
.6506	.022	.6677	.98	.6710	.060	.7275	.068	.7727	.75
.8100	.028	.8126	.080	.8644	.0037	.8779	.0106	.9103	.0094
.9281	.0047	.9346	.167	.9841	.0065	1.0346	.00504	1.1352	.0292
1.1426	.0135	1.1471	.0032	1.1722	.0113	1.2718	.0015	1.2899	.013
1.2950	.0184	1.3717	.0228	1.3985	.068	1.4426	.0135	1.4767	.00124
1.5199	.00084	1.7570	.0032	1.9217	.0114	2.0017	.012		
CS132 HALF LIFE= 6.5 D		16 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0298A	.	.3630	.0037	.3630	.0037	.4645	.019	.4645	.0197
.5057	.0083	.5057	.0083	.5670	.0026	.6298	.010	.6677	1.00
.7724	.00079	1.0314	.0012	1.1358	.0050	1.2977	.00048	1.3177	.0061
1.9853	.00074								
TE133M HALF LIFE= 55. M		64 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0741	.008	.0813	.008	.0813	.008	.0880	.03	.0949	.08
.1643	.016	.1689	.12	.1771	.015	.1782	.01	.1844	.004
.1932	.012	.1982	.006	.2134	.042	.2209	.005	.2240	.004
.2443	.007	.2515	.006	.2576	.01	.2616	.14	.3341	.15
.3445	.015	.3472	.013	.3556	.006	.3628	.011	.3768	.006
.3970	.017	.4290	.036	.4449	.044	.4621	.034	.4719	.023
.4786	.018	.5196	.009	.5348	.02	.5740	.036	.6220	.016
.6474	.34	.7027	.043	.7317	.017	.7339	.033	.7798	.039
.7957	.015	.8005	.022	.8639	.29	.8828	.048	.8977	.005
.9126	1.00	.9147	.19	.9344	.015	.9782	.093	.9804	.027
.9829	.013	1.0292	.018	1.0818	.031	1.3489	.029	1.4591	.025
1.5161	.011	1.5318	.01	1.5874	.022	1.6833	.087	1.7044	.011
1.8557	.013	2.0049	.054	2.0477	.014	2.0492	.017		
TE133 HALF LIFE= 12.5 M		29 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.3121	.70	.3846	.004	.3929	.008	.4079	.31	.4750	.011
.5464	.008	.5871	.007	.6136	.004	.7201	.083	.7870	.072
.8445	.046	.9309	.054	1.0003	.043	1.0210	.034	1.0610	.018
1.2521	.014	1.3077	.013	1.3135	.011	1.3333	.11	1.4056	.008
1.4740	.005	1.5146	.007	1.5882	.004	1.7176	.032	1.8251	.008
1.8816	.013	2.1385	.004	2.2280	.004	2.5406	.001		
I 133 HALF LIFE= 21. H		15 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.2625	.0037	.25	.8	.4228	.0030	.5103	.020	.5299	.89
.6180	.0056	.6604	.00695	.7067	.0153	.7683	.0043	.8203	.0013
.8963	.0122	.9755	.0443	1.0225	.00495	1.2366	.015	1.2984	.0224
XE133M HALF LIFE= 2.26D		1 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE								
.2328	.14								
XE133 HALF LIFE= 5.27D		7 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0310A	.	.0796	.016	.0810	.39	.1607	.0017	.2234	.00001
.3031	.00014	.3641	.0062						
BA133M HALF LIFE= 38.9 H		3 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE				
.0123	.0	.0372A	.	.2757	.17				
BA133 HALF LIFE= 7.2 Y		10 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0310A	.	.0334	.0195	.0796	.0304	.0810	.36	.1406	.0076
.220	.0	.2743	.075	.3027	.196	.3359	.67	.3837	.094
TE134 HALF LIFE= 42. M		13 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0795	.53	.1014	.05	.1811	.22	.2015	.084	.2108	.25
.2781	.21	.4344	.18	.4807	.089	.4844	.043	.5656	.19
.7125	.051	.7420	.14	.7867	.27				

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IE127M HALF LIFE= 109. D		20 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0576	.56*	.0576D	.0005	.0883	.12*	.145 D	.00007	.1452	.0033*
.1721	.0003*	.2029	.003*	.203 D	.0008	.214 D	.0006	.2151	.0039*
.3603	.14*	.3610D	.001	.3750	.0003*	.4174D	.008	.4179	1.00*
.5933	.0024*	.6186	.00013*	.6286	.00009*	.6510	.0003*	.6589	.013*
TE127 HALF LIFE= 9.4 H		8 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0286X	.	.0576	.0005	.145	.00007	.203	.0008	.214	.0006
.3610	.001	.4174	.008	.0887	.0008				
SB127 HALF LIFE= 93. H		37 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0286X	.	.0576D	.0005	.145 D	.00007	.203 D	.0008	.214 D	.0006
.2527	.067	.2808	.0040	.2906	.018	.3096	.0021	.3610D	.001
.3921	.010	.4120	.035	.4174D	.008	.4179	.0078	.4407	.0047
.4452	.043	.4732	.248	.5019	.0067	.5432	.030	.6038	.044
.6382	.005	.6527	.0026	.6669	.0064	.6849	.368	.6979	.023
.7214	.016	.7437	.0015	.7630	.00067	.7826	.13	.7879	.0014
.8060	.00036	.8184	.0035	.8601	.0024	.9242	.0090	1.1403	.0038
1.2899	.0034	1.3790	.00066						
XE127M HALF LIFE= 75. S		3 GAMMA RAYS		ENERGY ABUNDANCE					
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE				
.0296X	.	.125	.U	.175	.U				
XE127 HALF LIFE= 36.4 D		6 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0286X	.	.0576	.014	.1452	.04	.1721	.22	.2028	.65
.3790	.20								
CS127 HALF LIFE= 6.2 H		46 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0294X	.	.1247	.18	.1749	.0025	.1962	.004	.2866	.04
.3213	.004	.4111	.64	.4618	.033	.5867	.047	.718	.0003
.775	.0007	.804	.0042	.823	.0018	.874	.0004	.892	.0003
.929	.0003	.984	.0009	.991	.0004	1.070	.0003	1.158	.0008
1.169	.0007	1.181	.0012	1.196	.0023	1.213	.0004	1.232	.0002
1.260	.001	1.290	.0003	1.303	.002	1.340	.0002	1.364	.0003
1.392	.0003	1.402	.0006	1.409	.0012	1.418	.0004	1.433	.0003
1.484	.0003	1.535	.0009	1.558	.0001	1.561	.0001	1.583	.0006
1.649	.0001	1.681	.0003	1.702	.0001	1.718	.0003	1.776	.0002
1.973	.0001								
BN128 HALF LIFE= 59. M		12 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0286X	.	.074	.19	.131	.U	.302 D	.U	.401	.U
.478	.61	.557	.22	.596	.U	.685	.U	.73 D	.U
.792	.U	1.07 D	.U						
SB128M HALF LIFE= 11. M		3 GAMMA RAYS		ENERGY ABUNDANCE					
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE				
.320	.83	.75	2.00	1.07	.04				
SB128 HALF LIFE= 9. M		5 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.324	.U	.43	.U	.53	.U	.64	.U	.75	.U
I 128 HALF LIFE= 25. M		4 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE			
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE		
.4429	.175	.5266	.0166	.7433	.00169	.9693	.0043		
SN129 HALF LIFE= 9. M		1 GAMMA RAYS							
ENERGY	ABUNDANCE								
1.13	.U								
SB129 HALF LIFE= 4.34H		21 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.180	.054*	.296	.04*	.358	.13*	.410	.05*	.523	.05*
.544	.43*	.652	.07*	.683	.13*	.760	.04*	.813	1.00*
.876	.07*	.916	.42*	.967	.13*	1.028	.25*	1.048	.03*
1.24	.07*	1.30	.04*	1.52	.08*	1.73	.10*	1.84	.03*
2.07	.02*								
TE129M HALF LIFE= 34. U		46 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0278D	2.30*	.1035	.03*	.2090D	.026*	.3060D	.056*	.2703D	.0006*
.2784D	.080*	.2812D	.021*	.3426D	.001*	.3428D	.0052*	.4596D	1.00*
.4874D	.19*	.5314D	.012*	.5515D	.0013*	.556	.023*	.5597D	.001*
.6244D	.012*	.6720	.0050*	.6960	.6*	.7018	.0038*	.7056	.001*
.7168D	.0002*	.7476	.152*	.7411D	.0103*	.7689D	.0012*	.7949D	.0003*
.8022D	.0273*	.8172	.0190*	.8299D	.001*	.8334D	.0039*	.8449	.0075*
.9258D	.0001*	.9824D	.0023*	1.0036D	.0002*	1.0138D	.0002*	1.0226	.0041*
1.0504	.0037*	1.0840D	.079*	1.1117D	.031*	1.2042D	.00006*	1.2330D	.0012*
1.2542D	.0001*	1.2698D	.0016*	1.2644D	.0012*	1.2821D	.0001*	1.3738	.0002*
1.4016	.0009*								

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TL129	HALF LIFE= 69. M	33 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0278 2.30*	.2090 .026*	.2306 .096*	.2703 .0006*	.2784 .08*					
	.2812 .021*	.3625 .001*	.4596 .0052*	1.007	.4874 .19*					
	.5318 .012*	.5515 .0015*	.5597 .001*	.6244 .012*	.7168 .0002*					
	.7411 .0105*	.7649 .0012*	.7949 .0003*	.8022 .0273*	.8299 .001*					
	.8334 .0059*	.9258 .0001*	.9824 .0023*	1.0036 .0002*	1.0138 .0002*					
	1.0840 .079*	1.1117 .031*	1.2042 .00006*	1.2330 .0012*	1.2542 .0001*					
	1.2644 .0012*	1.2680 .0016*	1.2821 .0001*							
I 129	HALF LIFE= 1.7 YOT	2 GAMMA RAYS	ENERGY	ABUNDANCE						
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0298X .	.038 .09								
XE129M	HALF LIFE= 8. D	3 GAMMA RAYS	ENERGY	ABUNDANCE						
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0298X .	.0396 .09	.1966 .06							
CS129	HALF LIFE= 32. H	12 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE		
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0298X .	.040 .02	.094 .006	.174 .005	.270 .004					
	.278 .03	.321 .04	.375 .30	.416 .25	.550 .04					
	.591 .008	.94 .0015								
BA129	HALF LIFE= 2.6 H	53 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE		
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0310X .	.0532 .0	.0732 .0	.1291 .0	.1397 .0					
	.1769 .0	.1823 .0	.2023 .0	.2142 .0	.2206 .0					
	.2374 .0	.2636 .0	.2880 .0	.2935 .0	.3282 .0					
	.3356 .0	.3375 .0	.3656 .0	.3863 .0	.3920 .0					
	.419 .0	.428 .0	.436 .0	.459 .0	.475 .0					
	.481 .0	.501 .0	.534 .0	.543 .0	.547 .0					
	.554 .0	.557 .0	.561 .0	.597 .0	.679 .0					
	.690 .0	.700 .0	.713 .0	.738 .0	.748 .0					
	.759 .0	.768 .0	1.000 .0	1.035 .0	1.045 .0					
	1.122 .0	1.183 .0	1.179 .0	1.208 .0	1.221 .0					
	1.252 .0	1.458 .0	1.624 .0							
SB130M	HALF LIFE= 7. M	4 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE				
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.20 .0	.82 .0	1.03 .0	1.16 .0						
SB130	HALF LIFE= 33. M	4 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE				
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.19 .0	.33 .0	.84 .0	.94 .0						
I 130	HALF LIFE= 12.4 H	24 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE		
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.4180 .33	.3109 .0062	.5361 1.40	.5861 .016	.6036 .006					
	.6884 .94	.0093 .7394	.81 .8005	.0007 .8085	.0021 1.1573					
	.8773 .0018	.0077 1.0964	.0050 1.1220	.0023 1.1573	.11 1.4236					
	1.2029 .0002	.0018 1.2225	.0078 1.4041	.0036 1.4236	.0003 1.4236					
	1.4894 .0001	.0004 1.5011	.0004 1.5477	.0004 1.6077						
SB131	HALF LIFE= 25. M	2 GAMMA RAYS	ENERGY	ABUNDANCE						
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.64 .37	.95 .46								
TE131M	HALF LIFE= 30. H	38 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE		
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.1022 .075	.14970 .12	.1498 .242	.1824 .021	.2007 .076					
	.2409 .084	.279 .0012	.3343 .111	.343 D .0014	.384 D .0014					
	.4524 .065	.45240 .0082	.544 D .0005	.6021D .0073	.654 D .002					
	.6651 .050	.0000 .0000	.727 D .0005	.7737 .46	.7825 .076					
	.7936 .139	.8228 .067	.842 D .0003	.8523 .256	.898 D .0003					
	.933 D .0014	.948 D .0034	.952 D .00007	.997 D .0063	1.007 D .002					
	1.098 D .00007	1.1255 .148	1.147 D .012	1.2066 .118	1.295 D .002					
	1.645X .015	1.6877 .017	2.0010 .047							
TE131	HALF LIFE= 25. M	21 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE		
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0286X .	.1497 .68	.279 .007	.343 .007	.384 .007					
	.4524 .16	.544 .033	.6021 .04	.654 .012	.695 .003					
	.727 .003	.842 .001	.898 .001	.933 .008	.948 .020					
	.952 .004	.997 .003	1.007 .01	1.098 .005	1.147 .06					
	1.295 .014									
I 131	HALF LIFE= 8.05D	9 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE		
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0298X .	.0402 .040	.1772 .002	.2843 .054	.3258 .002					
	.3643 .82	.5030 .004	.637 .038	.723 .016						
XE131M	HALF LIFE= 11.8 D	2 GAMMA RAYS	ENERGY	ABUNDANCE						
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0298X .	.1533 .07								
BA131M	HALF LIFE= 15. M	5 GAMMA RAYS	ENERGY	ABUNDANCE						
	ENERGY ABUNDANCE	ENERGY ABUNDANCE								
	.0322X .	.078 .008	.1082 .0							

SB124M2 HALF LIFE= 21. M	4 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE
.025 .U	.305 U .20	.603 U .20	.645 D .20						
SB124 HALF LIFE= 60. D	16 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE
.6027 .98	.6456 .071	.7093 .0134	.7137 .0228	.7228 .106					
.7908 .0070	.9683 .0172	1.0451 .0184	1.298 .013	1.3255 .0158					
1.3549 .0064	1.3683 .0245	1.45 .02	1.6910 .457	2.0912 .032					
2.28 .006									
SN125M HALF LIFE= 9.7 M	14 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE
.325 .97	.3317 1.00	.3861 .0008	.3896 .002	.6430 .0015					
.83 .0012	.6406 .0007	1.0175 .0009	1.3685 .001	1.4041 .0071					
1.4842 .0022	1.6155 .0013	1.7355 .0003	1.9157 .0002						
SN125 HALF LIFE= 9.6 D	27 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE
.2351 .0034	.2709 .0104	.3320 .154	.3509 .0244	.434 .0024					
.4697 .144	.653 .0044	.8005 .114	.8226 .434	.8937 .0274					
.9155 .474	.9347 .0194	1.0171 .0294	1.0666 1.004	1.0874 .124					
1.0889 .474	1.1213 .0114	1.1643 .0034	1.1732 .0184	1.2210 .0244					
1.3484 .0074	1.4195 .0474	1.8057 .0184	1.8899 .0054	2.0017 .224					
2.2006 .0044	2.2752 .0204								
SB125 HALF LIFE= 2.7 Y	18 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE
.03530 .U	.1095 .00122	.1171 .00236	.1728 .00243	.1764 .072					
.2042 .00346	.2082 .00254	.2279 .00137	.3211 .00404	.3804 .0132					
.4078 .00237	.4279 .304	.4436 .0032	.4634 .107	.6006 .181					
.6067 .0315	.6359 .115	.6714 .0182							
TE125M HALF LIFE= 58. D	3 GAMMA RAYS	ENERGY	ABUNDANCE						
ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE						
.0275X .	.0355 .07	.1093 .03							
I 125 HALF LIFE= 60. D	2 GAMMA RAYS	ENERGY	ABUNDANCE						
ENERGY ABUNDANCE	ENERGY ABUNDANCE								
.0275X .	.0355 .07								
KE125M HALF LIFE= 55. S	2 GAMMA RAYS	ENERGY	ABUNDANCE						
ENERGY ABUNDANCE	ENERGY ABUNDANCE								
.075 .U	.111 .U								
KE125 HALF LIFE= 17. M	26 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE
.0286X .	.0550 .0093	.0749 .U	.1136 .U	.1884 .0862					
.2104 .00007	.2434 .045	.3721 .00032	.4538 .0067	.5535 .000045					
.6358 .00040	.7171 .000021	.7268 .000091	.8195 .000029	.8465 .0019					
.9015 .0011	.9373 .00025	.9925 .00016	1.0075 .00024	1.0215 .00004					
1.0755 .00012	1.0899 .00009	1.1384 .00055	1.1810 .00012	1.1936 .00015					
1.4421 .000014									
SN126 HALF LIFE= 1. YOS	22 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE
.060 .U	.067 .U	.092 .U	.22390 .0176	.27860 .0235					
.29720 .0475	.41470 .81	.55520 .0148	.57370 .073	.59300 .090					
.60500 .0248	.62000 .0115	.63900 .0155	.65620 .0283	.66620 1.00					
.67490 .0432	.69510 1.00	.69700 .32	.72040 .36	.85670 .176					
.95420 .123	.98950 .069								
SB126M HALF LIFE= 19. M	2 GAMMA RAYS	ENERGY	ABUNDANCE						
ENERGY ABUNDANCE	ENERGY ABUNDANCE								
.41 .U	.67 .U								
SC126 HALF LIFE= 12. D	19 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE
.2239 .0176	.2736 .0255	.2972 .0475	.4147 .81	.5552 .0148					
.5737 .073	.5930 .090	.6090 .0248	.6200 .0115	.6390 .0155					
.6562 .0283	.6662 1.00	.6749 .0432	.6951 1.00	.6970 .32					
.7204 .36	.8567 .176	.9542 .123	.9895 .069						
I 126 HALF LIFE= 13. D	8 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE
.0275X .	.3683 .354	.4913 .0271	.5110 .0152	.6662 .326					
.7358 .0344	.8796 .00765	1.4200 .0030							
SN127 HALF LIFE= 2.2 M	57 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE
.0941 .011	.109 .011	.119 .028	.141 .01	.143 .01					
.156 .01	.168 .034	.184 .044	.190 .015	.202 .018					
.232 .023	.234 .020	.262 .041	.266 .034	.279 .022					
.284 .076	.293 .036	.348 .015	.364 .019	.391 .032					
.407 .041	.438 .17	.491 .10	.494 .11	.495 1.00					
.501 .035	.510 .071	.544 .054	.570 .017	.583 .083					
.593 .062	.632 .014	.808 .21	.823 .43	.860 .20					
.979 .25	.994 .052	1.005 .048	1.036 .054	1.114 1.00					
1.121 .013	1.160 .088	1.292 .018	1.367 .01	1.472 .031					
1.584 .05	1.647 .03	1.648 .016	1.995 .42	2.004 .14					
2.103 .014	2.314 .028	2.448 .01	2.585 .045	2.696 .043					
2.806 .013	2.848 .025								

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I 134	HALF LIFE= 22. M		23 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.1354	.0320	.1391	.0050	.1625	.0026	.1884	.0068	.2355	.0174		
	.4054	.0735	.4533	.0445	.4590	.0143	.4889	.0161	.5144	.0238		
	.5408	.086	.5951	.112	.6218	.107	.6280	.025	.6773	.082		
	.7306	.022	.7647	.0383	.8470	.96	.8573	.066	.8841	.66		
	.9478	.040	.9746	.0493	1.0400	.020	1.0725	.143	1.1361	.0915		
	1.4555	.0296	1.6137	.040	1.7414	.031	1.8069	.056				
CS134M	HALF LIFE= 2.96H		4 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.0105	.0	.0310A	.	.1271	.14	.1374	.0				
CS134	HALF LIFE= 2.03Y		7 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.4753	.015	.5631	.08	.5692	.14	.6046	.98	.7958	.88		
	.8018	.09	1.0394	.011	1.1677	.019	1.3620	.034				
I 135	HALF LIFE= 6.7 H		35 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.1582	.0050	.2204	.022	.2297	.0025	.2884	.040	.4030	.0033		
	.4080	.0058	.4148	.0036	.4177	.041	.4299	.0040	.4339	.0060		
	.4536	.0039	.5245	.164	.5276	.	.5466	.084	.7079	.0085		
	.8369	.080	.9723	.027	1.0388	.10	1.1016	.018	1.1240	.042		
	1.1316	.268	1.1691	.0139	1.2404	.0102	1.2605	.349	1.3677	.0079		
	1.3869	.0072	1.4576	.10	1.5028	.0124	1.5666	.0154	1.6783	.118		
	1.7067	.049	1.7914	.094	1.8308	.007	1.9273	.0037	2.0450	.009		
Xe135M	HALF LIFE= 19.6 H		2 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.0298X	.	.527	.80								
Xe135	HALF LIFE= 9.2 H		12 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.1565	.0028	.1999	.0002	.2496	.92	.3586	.0024	.3731	.0001		
	.4082	.0034	.5733	.00006	.6086	.026	.6546	.0003	.7319	.0005		
	.8126	.0005	1.0830	.00003								
CS135M	HALF LIFE= 53. M		3 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.0310X	.	.761	1.00	.840	.96						
Ba135M	HALF LIFE= 28.7 H		2 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.0322X	.	.268	.18								
La135	HALF LIFE= 19.5 H		11 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.0322X	.	.103	.0	.218	.00086	.367	.00065	.373	.00036		
	.481	.019	.588	.0013	.633	.0	.655	.0	.652	.0		
	.871	.0026										
Ce135	HALF LIFE= 17.2 H		26 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.0345	.23*	.1204	.39*	.2653	2.27*	.2998	1.27*	.3790	.057*		
	.3870	.020*	.3975	.016*	.4824	.097*	.5109	.11*	.5171	.68*		
	.5446	.020*	.5712	.66*	.5765	.34*	.6097	1.00*	.6644	.13*		
	.6829	.01*	.7177	.01*	.7828	.52*	.8275	.25*	.8705	.16*		
	.9049	.066*	.9641	.014*	1.1487	.036*	1.1713	.023*	1.1831	.037*		
	1.4670	.012*										
I 136	HALF LIFE= 83. S		20 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.1977	.042	.2147	.006	.3455	.021	.3712	.021	.3817	.082		
	.3958	.01	1.2454	.033	1.2686	.072	1.3132	.82	1.3202	.18		
	1.9350	.01	1.9350	.01	2.2878	.074	2.4140	.038	2.6318	.042		
	2.8665	.027	2.9764	.018	3.0995	.012	3.1537	.012	3.2360	.017		
CS136	HALF LIFE= 13. 0		16 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.0322X	.	.0589	.137	.0864	.058	.1099	.0045	.1534	.082		
	.1640	.045	.1667	.0065	.1767	.132	.1673	.0055	.2738	.125		
	.3199	.006	.3406	.445	.5072	.010	.8185	1.00	1.0481	.805		
	1.2354	.197										
Xe137	HALF LIFE= 4.2 H		31 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.1394	.0017	.4556	.30	.595	.0009	.684	.0002	.849	.0065		
	.875	.0001	.886	.0002	.934	.0007	.969	.0003	.982	.0022		
	1.068	.0008	1.107	.0007	1.117	.0002	1.185	.0008	1.197	.0007		
	1.615	.0010	1.535	.0001	1.657	.0004	1.668	.0008	1.686	.0004		
	1.784	.0046	1.914	.0001	2.004	.0002	2.017	.0004	2.386	.0025		
	2.396	.0010	2.852	.0026	2.944	.0003	3.162	.0001	3.697	.0001		
	3.914	.0031										
CS137	HALF LIFE= 30. Y		2 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE								
	.0322X	.	.6016	.86								

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BA137M	HALF LIFE= 2.53M	2 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
			.0322X	.88	.6816	.88				
CE137M	HALF LIFE= 34.4 H	21 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
			.010 D	.U	.0034A	.U	.0347X	.168	.0043	.2545
			.433 D	.0005	.436 D	.0031	.479 D	.0017	.481 D	.0004
			.698 D	.0035	.762	.0016	.771 D	.00009	.781 D	.00004
			.836	.0085	.916 D	.00037	.926 D	.00034	.994	.000013
			1.160	.00002					1.004	.00021
CE137	HALF LIFE= 9.0 H	13 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
			.010	.U	.0334A	.U	.433	.00063	.436	.0039
			.479	.00025	.491	.0006	.492	.00013	.498	.0004
			.781	.U	.916	.00064	.926	.0004	.771	.00011
XE138	HALF LIFE= 17. M	9 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
			.1332	.26*	.2428	.096*	.2582	1.00*	.3965	.16*
			.4344	.48*	1.769	.39*	2.002	.14*	2.013	.29*
CS138	HALF LIFE= 32.2 M	9 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
			.1383	.037	.1925	.02	.2279	.044	.4091	.10
			.5466	.21	.7462	.08	.8707	.17	1.0084	.33
LA138	HALF LIFE= 1.12Y11	3 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
			.0322X	.U	.81	.30	1.43	.70		
XE139	HALF LIFE= 41. S	17 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
			.1210	.01	.1749	.29	.2190	.77	.2255	.02
			.2967	.24	.339	.007	.358	.005	.3942	.08
			.491	.014	.514	.021	.549	.006	.613	.044
			.732	.012	.768	.032			.723	.009
CS139	HALF LIFE= 9.5 M	6 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
			.1016	.004	.0266	.05	.7240	.024	.7324	.031
			1.2840	.088						
BA139	HALF LIFE= 82.9 M	23 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
			.1658	.73*	1.0530	.000012*	1.0903	.00011*	1.2155	.0012*
			1.2348	.0010*	1.2551	.00017*	1.3106	.00054*	1.3706	.00011*
			1.3924	.000003*	1.4205	.010*	1.4766	.000061*	1.5363	.0001*
			1.5783	.00002*	1.5957	.000093*	1.6634	.00012*	1.7545	.000002*
			1.8947	.000002*	1.9206	.000003*	2.0601	.000002*	1.7655	.00001*
CE139M	HALF LIFE= 55. S	2 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
			.0347X	.U	.7540	.93				
CE139	HALF LIFE= 140. D	2 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
			.0334X	.U	.1698	.80				
PR139	HALF LIFE= 4.5 H	13 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
			.0347X	.U	.2551	.47*	.3200	.18*	1.3468	1.90*
			1.5636	.09*	1.5956	.07*	1.6307	.85*	1.6533	.97*
			1.8180	.065*	1.9070	.03*	2.0150	.03*		
AE140	HALF LIFE= 14.3 S	42 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
			.0473	.052	.0794	.224	.0877	.019	.0925	.01
			.1116	.18	.1175	.22	.1636	.014	.1667	.059
			.1976	.049	.2122	.14	.2584	.012	.2774	.042
			.2907	.034	.3312	.02	.3739	.04	.3901	.092
			.4294	.04	.5033	.02	.5148	.057	.5189	.062
			.5572	.29	.6061	.14	.6274	.039	.6389	.073
			.6620	.40	.7739	.21	.8054	1.00	.8795	.12
			.9889	.16	1.1365	.078	1.2074	.055	1.3088	.30
			1.4131	.51	1.4260	.037			1.3146	.34
CS140	HALF LIFE= 66. S	21 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
			.5282	.058	.6027	1.00	.6719	.024	.7355	.01
			1.0085	.02	1.1305	.055	1.2000	.067	1.2212	.042
			1.3908	.024	1.4999	.061	1.6338	.034	1.8270	.025
			1.9482	.02	2.0990	.047	2.2374	.031	2.3296	.036
			2.3224	.05						

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BA140	HALF LIFE= 12.8 D		35 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0138	.U	.0246D	.0032	.0300	.11	.0641D	.0004	.0689D	.0024
	.1096D	.0022	.1188	.U	.1311D	.00455	.1327	.017	.1627	.06
	.2419D	.00555	.2665D	.0051	.3049	.06	.3287D	.216	.4238	.05
	.4325D	.0235	.4376	.05	.4670D	.465	.5109D	.0035	.5373	.34
	.7517D	.045	.8156D	.24	.8679D	.057	.9196D	.025	.9252D	.067
	.9510D	.0060	1.0853D	.0105	1.5962D	.965	2.0104D	.0043	2.3482D	.0082
	2.5218D	.0325	2.5477D	.0009	2.90	.0008	3.119 D	.0003	3.322 D	.00004
LA140	HALF LIFE= 40.22H		26 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0246	.0032	.0641	.0004	.0689	.0024	.1096	.0022	.1311	.00455
	.2419	.00355	.2665	.0051	.3287	.216	.4325	.0295	.4670	.465
	.5109	.0035	.7517	.045	.8158	.24	.8679	.057	.9196	.025
	.9252	.067	.9510	.0060	1.0853	.0105	1.5962	.965	2.0104	.0043
	2.3482	.0082	2.5218	.0325	2.5477	.0009	2.90	.0008	3.119	.0003
	3.322	.00004								
PR140	HALF LIFE= 3.39H		4 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0347X	.	.306	.U	1.596	.003	1.902	.U		
ND140	HALF LIFE= 3.3 D		8 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0347X	.	.0360X	.	.306 D	.U	.43	.U	.77	.U
	1.00	.U	1.596 D	.U	1.902 D	.U				
BA141	HALF LIFE= 18. M		18 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0334X	.	.0897	.025	.1009	.064	.1134	.025	.1904	1.00
	.2772	.49	.3647	.55	.3443	.28	.460	.34	.4682	.18
	.6477	.21	.73	.07	.86	.06	.93	.03	1.19	.08
	1.29	.03	1.42	.035	1.65	.03				
LA141	HALF LIFE= 3.9 H		1 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
	ENERGY	ABUNDANCE								
	1.3759	.020								
CE141	HALF LIFE= 33. D		2 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
	.0360X	.	.1454	.48						
ND141M	HALF LIFE= 63. S		1 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
	ENERGY	ABUNDANCE								
	.755	.								
ND141	HALF LIFE= 2.5 H		10 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0360X	.	.1454	.29*	.9813	.037*	1.1267	1.00*	1.1471	.40*
	1.2925	.63*	1.2986	.17*	1.4330	.03*	1.5806	.008*	1.6081	.027*
PM141	HALF LIFE= 22.9 M		10 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.6212	.13	.8860	.36	1.0285	.05	1.2229	.64	1.3450	.32
	1.4031	.11	1.5637	.14	1.9977	.013	1.8799	.063	2.0729	.12
XE142	HALF LIFE= 1.5 S		16 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.1179	.05*	.1238	.05*	.1563	.13*	.1635	.13*	.1916	.26*
	.2044	.69*	.2126	.05*	.2523	.03*	.3951	.23*	.4125	.37*
	.5387	.83*	.5719	1.00*	.6447	.80*	.6571	.86*	.9660	1.07*
	1.3250	1.10*								
CS142	HALF LIFE= 2.3 S		1 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
	ENERGY	ABUNDANCE								
	.9610	.8								
BA142	HALF LIFE= 11. M		13 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0334X	.	.0743	.U	.1212	.01*	.1766	.019*	.2314	.22*
	.2555	.46*	.3387	.073*	.4248	.11*	.4334	.024*	.9482	.21*
	.9994	.13*	1.0775	.19*	1.2027	.32*				
LA142	HALF LIFE= 92. M		31 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.5780	.0132	.6412	.465	.8616	.0177	.8795	.0117	.8949	.085
	1.0115	.0354	1.0438	.0267	1.1402	.0165	1.1653	.0158	1.2350	.023
	1.3546	.0243	1.3631	.0202	1.5209	.0685	1.5461	.0252	1.7229	.016
	1.7565	.026	1.9014	.065	1.9493	.0473	2.0553	.0245	2.1873	.0405
	2.2919	.0214	2.3780	.117	2.5429	.058	2.5904	.0186	2.8112	.0225
	2.8671	.0161	2.9713	.0274	3.14	.015	3.31	.019	3.45	.013
	3.65	.023								
PR142	HALF LIFE= 19.2 H		1 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
	ENERGY	ABUNDANCE								
	1.5755	.037								

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LA143	HALF LIFE= 14.0 M		14 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
	.20	.08 *	.44	.15 *						
	1.07	.26 *	1.17	.37 *						
	2.22	.06 *	2.46	.15 *						
CE143	HALF LIFE= 33. M		11 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
	.0360X	.	.0574	.125						
	.4328	.0018	.4904	.0231						
	.8804	.011								
PM143	HALF LIFE= .73Y		2 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
	.0374X	.	.742	.47						
SM143M	HALF LIFE= 64. S		1 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE								
	.748	.0								
SM143	HALF LIFE= 8.7 M		21 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
	.0387X	.	.2720	.16						
	1.2432	.11	1.3429	.015						
	1.7544	.006	1.6094	.003						
	2.0096	.009	2.0614	.007						
	2.6353	.004								
LE144	HALF LIFE= 294. D		15 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
	.0336	.0015	.0449	.005						
	.1335	.108	.623 D	.000003						
	.8639D	.000018	1.3449D	.000062						
PM144	HALF LIFE= 17.3 M		9 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
	.625	.000005	.6750	.000017						
	1.3580	.000062	1.4892	.0029						
PM144	HALF LIFE= 1.1 Y		6 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
	.0374X	.	.4765	.41						
	.8136	.005								
CE145	HALF LIFE= 3. M		9 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
	.0360X	.	.063	.21*						
	.500	.06*	.725	1.00*						
PM145	HALF LIFE= 5.98H		7 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
	.072	.0	.47	.0						
	.98	.0	2.77	.0						
PM145	HALF LIFE= 17.7 Y		3 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
	.0387X	.	.0675	.01						
SM145	HALF LIFE= 340. D		3 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
	.0387X	.	.0612	.13						
CE146	HALF LIFE= 14. M		15 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
	.0360X	.	.0520	.0099						
	.106	.007	.1136	.099						
	.2509	.035	.2647	.099						
	.8106	.013	.4079	.007						
PM146	HALF LIFE= 24. M		43 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
	.4536	.55	.505	.0035						
	.711	.0066	.726	.005						
	.924	.032	1.017	.020						
	1.233	.008	1.264	.013						
	1.470	.016	1.493	.006						
	1.830	.005	1.900	.0071						
	2.226	.0044	2.250	.013						
	2.675	.0060	2.774	.003						
	3.187	.0014	3.275	.0022						
PM146	HALF LIFE= 4. Y		11 GAMMA RAYS		ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
	.0374X	.	.446	.062						
	.6343	.002	.7322	.21						
	1.363	.0006								

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PM147 HALF LIFE= 12.0 M		22 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.076	.17	.127	.09	.175	.0	.21	.0	.25	.0
.315	.47	.39	.0	.365	.39	.61	.10	.645	.24
.73	.0	.90	.0	.90	.0	1.01	.0	1.18	.02
1.26	.11	1.37	.02	1.51	.03	1.65	.0	1.72	.0
1.82	.0	2.1	.0						
ND147 HALF LIFE= 11.1 D		23 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.078	.302	.0911	.21	.1205	.0034	.134	.0005	.170	.0002
.182	.0001	.1467	.0015	.232	.0002	.260	.0002	.2754	.0069
.3194	.015	.3962	.006	.4303	.001	.4398	.009	.4890	.001
.5310	.10	.542	.0002	.5896	.0003	1.319	.002	.610	.0002
.621	.0001	.6794	.0002	.6659	.006				
PM147 HALF LIFE= 2.62Y		1 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE								
.1212	.00004								
EU147 HALF LIFE= 22. D		36 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0401X		.0762	.01	.1212	.21	.1974	.25	.6015	.078
.6776	.11	.7988	.062	.809	.0007	.8290	.0	.857	.021
.868	.0	.880	.002	.886	.0004	.900	.004	.933	.035
.942	.0025	.956	.038	.9640	.0	1.0531	.0	1.065	.001
1.077	.065	1.107	.0003	1.120	.002	1.1382	.0	1.180	.002
1.197	.005	1.256	.01	1.275	.0005	1.319	.0015	1.333	.0032
1.351	.001	1.429	.001	1.450	.0025	1.4671	.0	1.5420	.0
1.6556	.0								
ND147 HALF LIFE= 35. M		64 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0415X		.1065	.008 *	.1111	.0008 *	.1664	.008 *	.2292	.165 *
.2406	.03 *	.2492	.009 *	.2608	.006 *	.3100	.091 *	.3186	.05 *
.3700	.39 *	.3961	.79 *	.4848	.077 *	.5127	.027 *	.517	.170 *
.5705	.18 *	.6108	.04 *	.6186	.09 *	.6252	.11 *	.6666	.0021
.694	.01 *	.7048	.023 *	.7149	.001 *	.7349	.004 *	.766	.26 *
.7780	.23 *	.7826	.047 *	.7872	.057 *	.8042	.013 *	.8101	.012 *
.8615	.046 *	.8938	.18 *	.9098	.017 *	.928	.30 *	.9446	.009 *
.968	.005 *	.9826	.003 *	.995	.025 *	1.0056	.032 *	1.016	.005 *
1.068	.22 *	1.0813	.012 *	1.0963	.007 *	1.1225	.026 *	1.130	.14 *
1.1480	.011 *	1.1597	.015 *	1.182	.003 *	1.213	.003 *	1.2353	.028 *
1.273	.008 *	1.325	.02 *	1.371	.004 *	1.402	.004 *	1.465	.007 *
1.566	.007 *	1.5853	.014 *	1.6752	.006 *	1.795	.018 *	1.8176	.003 *
1.840	.001 *	1.866	.0003 *	1.906	.001 *	2.044	.001 *		
PM148 HALF LIFE= 2. M		1 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE								
.300	.0								
PM148M HALF LIFE= 41.8 D		25 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0387X		.04014		.0615	.044	.0757	.013	.0984	.04
.1896	.014	.210	.02	.2880	.11	.3115	.038	.4143	.17
.4326	.066	.4431	.0	.5013	.072	.5502	.21	.5502D	.17
.5924	.0	.5995	.08	.6113	.06	.6499	.87	.7257	.38
.8962	.0	.912 D	.15	.9152	.20	1.0138	.20	1.4651D	.23
PM148 HALF LIFE= 5.4 D		3 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE				
.5502	.27	.912	.15	1.4651	.23				
PM149 HALF LIFE= 2.3 M		5 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.110	.13 *	.137	.10 *	.165	.10 *	.578	.04 *	.742	.02 *
ND149 HALF LIFE= 1.8 M		40 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0300	.7	.0367		.0589	.013	.0743	.022	.0975	.015
.1143	.16	.1271	.001	.1223	.002	.1266	.001	.1559	.052
.1778	.0014	.1666	.017	.1920	.0051	.1989	.012	.2081	.025
.2113	.23	.2138	.0035	.2303	.0043	.2402	.034	.2458	.0089
.2581	.0053	.2676	.052	.2701	.092	.2731	.002	.2752	.0051
.2824	.0052	.2881	.0059	.2948	.0050	.3014	.0053	.3111	.0044
.3264	.040	.3493	.013	.3666	.0057	.3847	.0029	.4235	.081
.4435	.013	.5406	.066	.5564	.010	.6302	.0019	.6544	.084
PM149 HALF LIFE= 53.1 M		4 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.2857	.02	.35	.0001	.58	.001	.85	.002		
EU149 HALF LIFE= 106. D		14 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0225	.0	.04014		.0729	.7	.1784	.002 *	.2079	.7
.2547	.022 *	.2772	.10 *	.281	.0	.3277	.10 *	.3502	.003 *
.5061	.002 *	.5287	.0016 *	.5340	.0002 *	.5583	.0002 *		

SD149 HALF LIFE= 9.5 D		28 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0415X	.0008	.1498	.21	.1488	.0002	.2304	.0006	.2351	.0001		
.2525	.0008	.2609	.0047	.2678	.00005	.2726	.012	.2987	.10		
.3468	.009	.4040	.0006	.4603	.0019	.4783	.0010	.4966	.0060		
.5168	.0093	.5344	.011	.6432	.0052	.6634	.0021	.7491	.030		
.7893	.028	.8133	.0003	.8632	.0003	.8762	.0007	.9390	.010		
.993	.00013	1.013	.00012	1.082	.00007						
PM150 HALF LIFE= 2.68H		23 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.334	.71	.41	.07	.59	.036	.72	.08	.84	.18		
.88	.12	1.02	.028	1.17	.23	1.23	.04	1.33	.22		
1.63	.02	1.75	.10	1.96	.025	2.06	.012	2.12	.006		
2.41	.0025	2.53	.009	2.75	.003	2.91	.004	3.06	.001		
ND151 HALF LIFE= 12. M		38 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0387X	.011	.0383	.0024	.0890	.0087	.0818	.0093	.0851	.014		
.0900	.023	.1029	.0033	.1168	.222	.1389	.043	.1485	.0022		
.1707	.023	.1751	.0042	.1831	.0025	.1972	.0018	.1997	.0020		
.2081	.0021	.2387	.003	.2395	.003	.2557	.076	.3008	.011		
.3244	.0033	.4023	.0096	.4236	.036	.5852	.0074	.5894	.0020		
.6580	.0045	.6780	.015	.7242	.019	.7362	.040	.7392	.012		
.7556	.0074	.7975	.032	.8291	.0015	.8411	.0065	.9142	.0082		
1.1226	.030	1.1809	.10	1.2978	.0013						
PM151 HALF LIFE= 28. H		65 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0048	.U	.0257	.014	.0251	.006	.0812X	.052	.0857	.03		
.0810	.0017	.0829	.U	.0849	.U	.0858	.043	.0877	.01		
.0705	.0007	.0762	.003	.0772	.02	.089	.008	.0980	.001		
.0987	.001	.1000	.027	.1018	.0156	.1048	.038	.1393	.0053		
.1562	.0019	.1634	.0254	.1678	.099	.1770	.048	.1866	.0016		
.2019	.0095	.2090	.0193	.2272	.00365	.2324	.0122	.2367	.0098		
.2400	.039	.2541	.0019	.2704	.0011	.2751	.0745	.2801	.0023		
.2906	.0080	.3066	.0021	.3238	.0148	.3296	.00248	.3399	.04		
.3448	.022	.3496	.00145	.3531	.00124	.3797	.0102	.4088	.0016		
.4407	.016	.4455	.043	.4512	.00305	.4901	.0014	.5180	.0020		
.5649	.0037	.6362	.0151	.6343	.0027	.6691	.0081	.6714	.0103		
.7044	.0033	.7176	.044	.7363	.0048	.7530	.0149	.7730	.0086		
.8081	.006	.8179	.0029	.8489	.0031	.9489	.0036	.9539	.0010		
SM151 HALF LIFE= 87. Y		1 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0217	.U										
SD151 HALF LIFE= 120. D		15 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.1066	.0028	.1237	.20	.1749	.10	.1967	.0009	.2222	.0001		
.2393	.0036	.2438	.18	.2609	.0013	.2885	.0029	.3080	.035		
.3289	.0026	.3329	.00016	.3542	.0042	.3948	.000024	.4163	.000016		
TB151 HALF LIFE= 18. H		26 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0430X	.U	.1081	.12	.1610	.0035	.1801	.044	.1920	.015		
.2518	.10	.2638	.0022	.2872	.10	.3188	.0009	.3801	.021		
.3952	.039	.4170	.0050	.4270	.015	.4438	.031	.447	.0040		
.4792	.051	.4990	.0016	.5120	.0084	.5875	.053	.6055	.015		
.6137	.035	.6910	.0054	.7039	.012	.7318	.028	.807	.0037		
.9060	.0040										
PM152 HALF LIFE= 4.1 M		9 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0401X	.U	.122	.21	.244	.013	.696	.02	.811	.004		
.841	.03	.963	.08	1.087	.03	1.315	.02				
EU152M HALF LIFE= 2.6 H		0 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
EU152 HALF LIFE= 12.7 Y		39 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.1218	.332	.2447	.072	.2754	.0004	.2959	.0053	.3443	.314		
.3676	.0104	.4005	.00003	.4111	.0253	.4439	.033	.4884	.0049		
.4936	.00035	.5033	.00018	.5638	.0059	.5663	.0015	.6565	.0018		
.6747	.0021	.6888	.091	.7194	.0039	.7692	.00085	.7788	.132		
.8107	.0038	.8418	.0019	.8674	.051	.9010	.001	.9197	.0049		
.9640	.173	1.0050	.0076	1.0858	.100	1.1121	.164	1.2129	.017		
1.2497	.0021	1.2992	.019	1.4079	.243	1.4583	.0059	1.5298	.0041		
PM153 HALF LIFE= 5.5 M		3 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.090	.U	.12	.U	.18	.U						
SM153 HALF LIFE= 47. H		26 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0198	.U	.0410X	.U	.0941	.0000188	.0882	.000012	.08968	.0476		
.0754	.00108	.0834	.0021	.0895	.00182	.0974	.00729	.1032	.28		
.1315	.000090	.1729	.000588	.4115	.000054	.4243	.000036	.438	.000028		
.450	.000031	.4636	.000014	.5213	.00007	.5314	.000645	.5332	.000336		
.5391	.000186	.5552	.000050	.5786	.000028	.5969	.U	.5982	.U		
.8031	.000339	.8091	.000118	.8360	.0000504						

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GD133 HALF LIFE= 242. D		10 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0141	.U	.0195	.U	.0415X	.U	.0697	.024	.0754	.00091
.0834	.0021	.0695	.U	.0974	.317	.1032	.24	.1728	.000048
TB133 HALF LIFE= 55. H		16 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0416	.13	.0430X	.U	.0518	.07	.0682	.03	.0828	.11
.0876	.06	.0934	.009	.1023	.06	.1097	.15	.1292	.009
.1703	.05	.1744	.009	.1936	.001	.2121	.30	.2621	.004
.3034	.009								
EU134 HALF LIFE= 184. Y		23 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.1231	.405	.1884	.0021	.2480	.066	.4444	.0048	.5823	.0077
.5917	.046	.6923	.0165	.7433	.191	.7567	.041	.8136	.0033
.8436	.0094	.8732	.113	.8928	.0044	.9040	.0078	.9963	.107
1.0048	.176	1.1284	.011	1.1409	.00195	1.2646	.0064	1.2748	.336
1.3978	.016	1.4946	.0067	1.5973	.017				
SM155 HALF LIFE= 23. H		26 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0266	.0063	.0415	.171	.0615X	.U	.0618	.004	.0785	.012
.0901	.0001	.1043	.725	.1386	.0006	.1414	.023	.1675	.00048
.1691	.0003	.2031	.00045	.2287	.00066	.2497	.039	.3073	.00012
.4608	.00069	.4422	.00012	.5102	.00011	.5225	.00013	.5718	.00018
.6312	.00014	.6640	.00061	.9979	.0001	1.0027	.00012	1.2230	.00019
1.3012	.00067								
EU155 HALF LIFE= 1.81Y		6 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0189	.00032	.0265	.0128	.0253	.0074	.0600	.0128	.0863	.32
.1053	.20								
TB155 HALF LIFE= 5.6 D		43 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0187	.0020	.0265	.015	.0430X	.U	.0453	.063	.0579	.0079
.0600	.047	.0990	.0032	.1012	.0079	.1053	1.00	.1206	.0018
.1486	.10	.1586	.0017	.1605	.031	.1612	.11	.1632	.18
.1752	.0018	.1800	.30	.1816	.017	.1821	.0044	.2004	.0022
.2035	.0015	.2064	.0067	.2080	.0025	.2085	.0010	.2160	.0054
.2201	.0066	.2207	.020	.2269	.0063	.2352	.0016	.2382	.0015
.2296	.0091	.2478	.0022	.2496	.0023	.2622	.21	.2685	.027
.2811	.012	.2870	.015	.3218	.0069	.3367	.0013	.3406	.045
.3626	.0033	.3673	.092	.3709	.0090				
DY155 HALF LIFE= 10.2 H		45 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0445X	.U	.0655	.039*	.0903	.023*	.1558	.0025*	.1615	.017*
.1844	.035*	.2056	.0048*	.2270	1.0000*	.2711	.019*	.2964	.0016*
.3828	.0028*	.4038	.0019*	.4334	.011*	.4844	.020*	.4988	.037*
.5082	.024*	.5494	.019*	.5710	.0027*	.5870	.0057*	.6414	.019*
.6645	.047*	.6785	.0050*	.6954	.0078*	.7448	.0081*	.8120	.0086*
.8353	.0060*	.8403	.0086*	.8490	.0052*	.8911	.012*	.9032	.020*
.9286	.014*	.9614	.0096*	.9995	.0554	1.0131	.0068*	1.0229	.0014*
1.0626	.0075*	1.0683	.013*	1.0698	.061*	1.1154	.0091*	1.1533	.043*
1.1663	.035*	1.2908	.020*	1.3367	.010*	1.3676	.017*	1.6651	.024*
SM156 HALF LIFE= 9.4 H		13 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0226	.U	.0253	.U	.0381	.U	.0415X	.U	.0650	.U
.0876	.30	.103	.U	.166	.10	.204	.20	.219	.U
.244	.U	.269	.U	.291	.03				
EU156 HALF LIFE= 15.4 D		50 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0430X	.U	.0889	.08	.1051	.0068	.1992	.00072	.2937	.U
.4343	.0024	.4900	.00203	.5858	.U	.5995	.017	.6462	.07
.7099	.U	.7233	.06	.7974	.U	.8116	.09	.8412	.00246
.8583	.U	.8600	.U	.8659	.U	.8670	.015	.9136	.00454
.9441	.0248	.9803	.028	.9697	.0035	.9828	.U	1.0116	.U
1.0183	.U	1.0403	.U	1.0893	.U	1.0649	.061	1.0790	.U
1.1533	.059	1.1539	.056	1.1680	.U	1.1636	.0037	1.2304	.087
1.2421	.066	1.2483	.00542	1.2584	.00098	1.2772	.U	1.3461	.016
1.6819	.00223	1.6765	.013	1.9372	.019	1.9654	.038	2.0261	.031
2.0972	.03	2.1805	.019	2.1863	.031	2.205	.07	2.270	.008
TB156M HALF LIFE= 5.5 H		2 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0445X	.U	.0854	.U						
TB156 HALF LIFE= 5.4 D		44 GAMMA RAYS		ENERGY ABUNDANCE		ENERGY ABUNDANCE		ENERGY ABUNDANCE	
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0430X	.U	.0890	.003*	.1120	.0047*	.1552	.0057*	.1992	.13*
.2625	.019*	.2963	.014*	.3363	.041*	.3814	.0021*	.4224	.026*
.5341	.21*	.5793	.0016*	.686	.0013*	.690	.0008*	.747	.0006*
.7804	.0076*	.805	.0009*	.841	.0010*	.885	.0011*	.9264	.013*
.9493	.0050*	.9602	.0055*	1.0050	.035*	1.0670	.0090*	1.129	.0006*
1.1540	.035*	1.1540	.035*	1.1594	.025*	1.168	.0015*	1.2221	.10*
1.228	.0026*	1.240	.0006*	1.265	.0039*	1.333	.0077*	1.4200	.039*
1.6445	.012*	1.614	.0016*	1.8440	.013*	1.885	.0004*	1.889	.0002*
1.942	.0001*	2.0123	.0034*	2.047	.00005*	2.089	.0002*		

SM157	HALF LIFE= .5 M	1 GAMMA RAYS							
ENERGY	ABUNDANCE								
.57	.U								
EU157	HALF LIFE= 15.2 M	18 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0404	.U	.0430X	.U	.0218	.U	.0545	.05	.0640	.23
.0770	.U	.1314	.U	.2756	.U	.3205	.U	.3307	.U
.3618	.U	.3728	.U	.4131	.27	.4773	.05	.5270	.U
.6233	.06	.6875	.U	.7274	.U				
TB157	HALF LIFE= 150. Y	1 GAMMA RAYS							
ENERGY	ABUNDANCE								
.0545	.0034								
UY157	HALF LIFE= 8.1 M	25 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0445X	.U	.0504	.0048	.0830	.0067	.1823	.024	.2657	.0027
.2972	.0009	.3284	.94	.4052	.00017	.4052	.00017	.4987	.00011
.5531	.00013	.5786	.00032	.5973	.00084	.6271	.00035	.7452	.00034
.7701	.00026	.7786	.00058	.8970	.00003	.9317	.0001	.984	.00001
.9928	.00003	1.0444	.00005	1.1023	.00002	1.2132	.00002	1.2762	.00003
EU158	HALF LIFE= 46. M	39 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.080	.20	.180	.088	.5283	.049	.6065	.13	.699	.036
.7432	.117	.751	.016	.764	.031	.770	.03	.816	.013
.824	.041	.828	.014	.853	.015	.871	.048	.8977	.413
.907	.056	.923	.071	.9442	1.00	.953	.059	.963	.062
.9772	.517	.987	.044	1.005	.05	1.1077	.18	1.116	.045
1.142	.013	1.186	.345	1.2658	.087	1.295	.009	1.312	.013
1.348	.062	1.365	.042	1.445	.056	2.025	.033	2.139	.013
2.247	.016	2.263	.012	2.369	.027	2.449	.035		
TB158M	HALF LIFE= 11. S	2 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
.0445X	.U	.110	.0005						
TB158	HALF LIFE= 1200. Y	14 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.04304	.U	.0796	.13	.0990	.083	.1819	.10	.2107	.0001
.2182	.011	.7802	.093	.8977	.0017	.9257	.0005	.9442	.44
.9622	.20	.9775	.0018	1.1077	.021	1.1872	.016		
EU159	HALF LIFE= 18.1 M	36 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0678	.35	.0714	.075	.0786	.13	.0804	.056	.0904	.020
.0957	.24	.1025	.007	.1055	.018	.1219	.010	.1464	.056
.1398	.015	.1769	.019	.2275	.019	.4882	.003	.5313	.004
.5886	.004	.5966	.0035	.6022	.009	.6134	.013	.6437	.004
.6595	.014	.6844	.031	.6786	.019	.6819	.023	.6938	.003
.7265	.0065	.7443	.009	.7539	.009	.8047	.026	.8297	.0035
.8808	.0035	1.0437	.005	1.0948	.012	1.1284	.005	1.3015	.0013
1.5205	.0065								
UD159	HALF LIFE= 18. M	13 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0445X	.U	.0563	.018	.0794	.00038	.1377	.000042	.2108	.000090
.2260	.0018	.2369	.00055	.2742	.000062	.2902	.00024	.3056	.00034
.3482	.0020	.3632	.10	.5367	.000218	.5599	.00017	.5811	.00055
.6163	.000009	.6177	.00013	.8545	.000018				
UY159	HALF LIFE= 144. D	7 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0580	.04	.080	.U	.138	.U	.211	.00004	.290	.00012
.348	.0009	.363	.0001						
MO159M	HALF LIFE= 6.9 S	2 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
.0476X	.U	.208	.U						
MO159	HALF LIFE= 33. M	9 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0460X	.U	.0588	.U	.0798	.U	.1320	.U	.1732	.U
.1775	.U	.249	.U	.2531	.U	.3094	.U		
IB160	HALF LIFE= 72.1 D	22 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0480X	.U	.0588	.12	.0939	.00048	.1970	.06	.2156	.042
.2307	.001	.2985	.30	.3096	.0089	.3371	.0039	.3924	.014
.6822	.006	.7653	.027	.8793	.31	.9625	.09	.9663	.22
1.0029	.004	1.1152	.018	1.1781	.15	1.1959	.027	1.2513	.001
1.2720	.07	1.3122	.022						
UD161	HALF LIFE= 3.7 M	10 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0445X	.U	.0588	.0085	.0776	.00047	.1024	.11	.1035	.00647
.1337	.U	.1823	.0061	.1408	.0228	.2588	.0194	.273	.0129
.2636	.06	.3153	.25	.3610	.28	.482	.0207	.531	.0188

TS161	HALF LIFE= 6.9 D	21 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0460X .	.0746 .10	.0879 .0021	.1031 .0012	.1062 .0009					
	.1383 .000011	.2384 .000019	.2864 .00012	.2921 .00014	.3151 .000004					
	.3196 .000032	.3412 .000035	.3435 .00014	.3482 .000004	.3766 .000005					
	.3924 .000022	.4185 .000086	.4258 .000003	.4758 .00019	.5067 .000008					
	.5505 .0004									
MO161	HALF LIFE= 2.4 H	16 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0257 .23	.0439 .004	.0460X .	.0490 .003	.0582 .04					
	.0775 .13	.0981 .018	.1030 .02	.1037 .01	.1154 .02					
	.2108 .006	.2345 .U	.2397 .U	.3397 .U	.4460 .U					
	.76 .003									
ER161	HALF LIFE= 3.1 H	33 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0470 .U	.084 .0126	.088 .0513	.125 .0189	.132 .0189					
	.203 .0252	.211 .09	.27 .0126	.305 .03	.37 .0063					
	.41 .0063	.43 .000126	.45 .0138	.592 .08	.65 .0126					
	.70 .0252	.79 .00126	.826 .63	.87 .0756	.88 .0063					
	.95 .0315	1.02 .0126	1.10 .0113	1.12 .00567	1.17 .0441					
	1.24 .0252	1.33 .0752	1.41 .0252	1.49 .0126	1.62 .00882					
	1.71 .00756	1.82 .00157	1.97 .000441							
GO162	HALF LIFE= 8.2 M	3 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0388 .97	.4028 .46	.4416 .53							
TS162	HALF LIFE= 77.6 M	8 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0809 .32	.1854 .14	.2600 .80	.6970 .024	.7958 .W					
	.8076 .45	.8824 .12	.8882 .39							
MO162M	HALF LIFE= 68. M	25 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0383 .U	.0807 .10	.1888 .U	.2655 .U	.2760 .U					
	.2832 .12	.3037 .U	.3849 .U	.3932 .U	.4254 .U					
	.4460 .U	.5588 .U	.799 .U	.884 .U	.915 .U					
	.840 .13	1.023 .U	1.035 .U	1.115 .U	1.134 .U					
	1.224 .24	1.233 .U	1.251 .U	1.335 .U	1.341 .U					
MO162	HALF LIFE= 15. M	1 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0807 .08									
TS163	HALF LIFE= 6.5 H	9 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.025 .80	.12 .U	.16 .05	.18 .U	.235 .30					
	.330 1.00	.36 .01	.44 .01	.510 .35						
MO163M	HALF LIFE= 1.1 S	2 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0476X .	.303 .U								
ER163	HALF LIFE= 75.1 M	4 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0476X .	.30 .01	.43 .06	1.10 .04						
MO164	HALF LIFE= 36.7 M	5 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0373 .036	.0460X .	.0491X .	.0728 .033	.0905 .035					
UY165M	HALF LIFE= 1.26M	7 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0460X .	.1082 .03	.1537 .003	.3617 .006	.3193 .018					
	.65 .0003	.73 .0001								
UY165	HALF LIFE= 139.2 M	14 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0476X .	.0707 .04	.2796 .006	.3615 .011	.479 .0003					
	.501 .00006	.514 .0003	.545 .0017	.566 .0016	.575 .0008					
	.588 .00008	.641 .001	.633 .007	.695 .0002	.716 .007					
	.995 .0006	1.038 .0003	1.080 .001							
TM165	HALF LIFE= 30.1 H	41 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0491X .	.2486 .010	.2427 1.04	.2644 .017	.2791 .020					
	.2959 .002	.2972 .008	.3069 .0044	.3122 .014	.3305 .0056					
	.3466 .009	.3565 .081	.3653 .016	.3892 .080	.4002 .0058					
	.4207 .010	.4424 .024	.4481 .057	.4599 .110	.4777 .012					
	.5135 .010	.5268 .032	.5422 .046	.5583 .019	.5637 .067					
	.5736 .014	.5775 .007	.5894 .037	.6228 .009	.6646 .012					
	.6773 .006	.6802 .004	.6886 .041	.7474 .008	.7910 .018					
	.8068 .043	.8377 .013	1.1310 .048	1.1845 .074	1.3795 .0085					
	1.4269 .017									

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Yb166	HALF LIFE= 81.5 H	8 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0282	.U	.0476A	.	.0242	.U	.0824	.12	.290	.U
	.343	.0005	.3716	.005	.4258	.005				
Mo166M	HALF LIFE= 1200. Y	23 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0806	.14	.1118	.007	.1216	.007	.1845	1.000	.2132	.038
	.3006	.048	.3654	.029	.4516	.035	.5301	.10	.5705	.068
	.5948	.012	.6704	.070	.6910	.019	.7118	.72	.7525	.16
	.8308	.12	.8759	.011	.8966	.007	.9516	.036	.9968	.007
	1.2833	.004	1.4014	.008	1.4275	.007				
Mo166	HALF LIFE= 26.7 H	6 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0806	.062	.6751	.0003	.7060	.00019	1.3800	.0093	1.6630	.0012
	1.7500	.00031								
Yb166	HALF LIFE= 57.5 H	31 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0806D	.80*	.082G	1.00	.1310D	.027*	.1473D	.014*	.1844D	.71*
	.1948D	.036*	.2129D	.24*	.2804D	.013*	.2962D	.016*	.3459D	.015*
	.4039D	.037*	.4039D	.12*	.4969D	.011*	.5377D	.011*	.5948D	.09*
	.5490D	.06*	.6596D	.011*	.6731D	.27*	.6755D	.12*	.6918D	.30*
	.7027D	.09*	.7029G	.40*	.7290D	.011*	.7393D	.09*	.7788D	.88*
	.7864D	.43*	.8115D	.047*	.8753D	.16*	1.1536D	.055*	1.1778D	.39*
	1.2044G	.052*	1.2174G	.025*	1.2367D	.075*	1.2633D	.030*	1.2753D	.81*
	1.3025D	.02*	1.3064D	.03*	1.3152D	.013*	1.3486D	.032*	1.3749D	.20*
	1.4325D	.03*	1.4476D	.024*	1.5066D	.035*	1.6250D	.01*	1.6546D	.02*
	1.8679D	.14*	1.8951D	.042*	1.9081D	.013*	2.0537D	.77*	2.0809D	.27*
	2.0942D	.065*								
Tm166	HALF LIFE= 7.7 H	30 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0806	.80*	.1310	.027*	.1473	.014*	.1844	.71*	.1948	.036*
	.2158	.24*	.2804	.013*	.2982	.016*	.3459	.015*	.4039	.037*
	.4596	.12*	.4969	.011*	.5577	.011*	.5948	.09*	.5990	.06*
	.6246	.011*	.6731	.27*	.6753	.12*	.6918	.30*	.7027	.09*
	.7056	.40*	.7290	.011*	.7593	.09*	.7788	.88*	.7864	.43*
	.8115	.047*	.8753	.16*	1.1536	.055*	1.1778	.39*	1.2044	.052*
	1.2174	.026*	1.2367	.075*	1.2653	.030*	1.2753	.81*	1.3025	.02*
	1.3064	.03*	1.3152	.013*	1.3486	.032*	1.3749	.20*	1.4325	.03*
	1.4496	.024*	1.5066	.035*	1.6250	.01*	1.6546	.02*	1.8679	.14*
	1.8951	.042*	1.9081	.013*	2.0537	.77*	2.0809	.27*	2.0942	.065*
Mo167	HALF LIFE= 3.1 H	22 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0491X	.	.0733	.03	.0793	.14	.0835	.093	.1317	.0026
	.1483	.002	.2075	.13	.2087	.002	.2379	.065	.2547	.0026
	.3150	.008	.3413	.27	.3465	.38	.3862	.037	.3986	.010
	.4030	.035	.4300	.0013	.4600	.022	.4800	.005	.5313	.0013
	.6680	.0023	.7920	.0017						
Er167M	HALF LIFE= 2.3 S	2 GAMMA RAYS	ENERGY	ABUNDANCE						
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
	.0491X	.	.2075	.43						
Tm167	HALF LIFE= 9.6 D	7 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0491X	.	.0071	.04	.2079	.43	.265	.U	.267	.0002
	.324	.0004	.5318	.02						
Yb167	HALF LIFE= 17.7 M	16 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0256	.U	.0071	.U	.0907X	.	.0630	.U	.1060	.36
	.1133	.19	.1133	.U	.1318	.U	.1503	.U	.1689	.U
	.1761	.15	.92	.0007	1.04	.003	1.25	.0015	1.44	.0005
	1.132	.0005								
Mo168	HALF LIFE= 3.3 M	1 GAMMA RAYS								
	ENERGY	ABUNDANCE								
	.85	.U								
Tm168	HALF LIFE= 85. D	18 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.0491X	.	.0798	.096	.0992	.0416	.1842	.183	.1982	.52
	.4475	.24	.3468	.0268	.6317	.087	.6457	.0143	.7203	.121
	.7306	.050	.7413	.125	.8159	.495	.8211	.116	.8299	.069
	.9149	.030	1.2774	.018	1.4617	.0026				
Mo169	HALF LIFE= 4.8 M	6 GAMMA RAYS	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
	.08	.U	.13	.12*	.68	.10*	.76	.30*	.84	.13*
	.92	.05*								
Er169	HALF LIFE= 9.4 D	2 GAMMA RAYS	ENERGY	ABUNDANCE						
	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
	.0084	.003	.0907X	.						

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YB169M	HALF LIFE= 46. S	1 GAMMA RAYS							
ENERGY	ABUNDANCE								
.0242	.U								
YB169	HALF LIFE= 32. D	12 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0084	.U	.0207	.U	.0507A	.	.0631	.45	.0936	.018
.1098	.18	.1182	.013	.1303	.11	.1772	.22	.1980	.35
.2610	.013	.3077	.10						
LU169M	HALF LIFE= 2.7 H	1 GAMMA RAYS							
ENERGY	ABUNDANCE								
.0292	.U								
LU169	HALF LIFE= 34. H	69 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0242	.U	.0524X	.	.0628	.U	.0709	.U	.0750	.U
.0874	.U	.0920	.U	.1044	.U	.1109	.U	.1335	.U
.1440	.U	.1370	.U	.1652	.U	.1914	.U	.1984	.U
.2587	.U	.2518	.U	.3696	.U	.3792	.U	.4046	.U
.4568	.U	.4708	.U	.4840	.U	.4897	.U	.5491	.U
.5771	.U	.6073	.U	.681	.U	.891	.U	.962	.U
1.062	.U	1.070	.U	1.173	.U	1.178	.U	1.207	.U
1.275	.U	1.380	.U	1.394	.U	1.413	.U	1.465	.U
1.469	.U	1.542	.U	1.597	.U	1.606	.U	1.620	.U
1.659	.U	1.678	.U	1.684	.U	1.691	.U	1.697	.U
1.709	.U	1.731	.U	1.764	.U	1.783	.U	1.872	.U
1.908	.U	1.974	.U	1.985	.U	1.995	.U	2.025	.U
2.055	.U	2.066	.U	2.094	.U	2.139	.U	2.158	.U
2.211	.U	2.221	.U	2.235	.U	2.294	.U		
MD170	HALF LIFE= 42. S	12 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.079	.10	.943	.032*	.985	.019*	.830	.023*	.878	.072*
.959	.059*	1.021	.061*	1.186	.085*	1.227	.042*	1.893	.11*
1.938	.025*	1.972	.087*						
TM170	HALF LIFE= 130. U	2 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
.0524X	.	.0343	.033						
ER171	HALF LIFE= 7.52H	32 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.1116	.32	.1166	.030	.1240	.1*	.1756	.00013	.2106	.011
.2371	.0052	.2774	.0093	.2959	.45	.3083	1.00	.3629	.00054
.3719	.0039	.4249	.0012	.4249	.00041	.5069	.00037	.5192	.00038
.5478	.00037	.5595	.00076	.6092	.00088	.6210	.0015	.6711	.0044
.6761	.0050	.6939	.00026	.7325	.0017	.7430	.00016	.7841	.0039
.7966	.010	.8097	.0013	.8820	.00067	.9077	.011	.9226	.0014
.9661	.00050	1.1090	.00011						
TM171	HALF LIFE= 1.92Y	2 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
.0524X	.	.0667	.U						
YB171M	HALF LIFE= 8. D	2 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
.0193	.U	.0757	.U						
LU171M	HALF LIFE= 76. S	2 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE						
.0341X	.	.0704	.002						
LU171	HALF LIFE= 8.3 D	31 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0193	.30*	.0524X	.	.0667	.044*	.0724	.036*	.0759	.11*
.0430	.014*	.0717	.008*	.1093	.011*	.1323	.0003*	.1546	.0007*
.1638	.0047*	.1708	.009*	.1949	.003*	.4990	.0019*	.5177	.008*
.6274	.018*	.6676	.02*	.6834	.020*	.7126	.026*	.7398	1.00*
.7677	.01*	.7405	.091*	.7934	.0016*	.8258	.0031*	.8398	.067*
.8527	.052*	.9020	.0035*	.9466	.0017*	1.0939	.002*	1.2102	.0015*
1.2822	.0073*								
MF171	HALF LIFE= 10.7 H	8 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.122	.U	.138	.U	.29	.U	.34	.U	.47	.U
.66	.U	.68	.U	1.07	.U				
ER172	HALF LIFE= 49.5 H	13 GAMMA RAYS							
ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE	ENERGY	ABUNDANCE
.0492	.U	.0507A	.	.0596	.U	.0679	.U	.128	.021
.103	.004	.34	.006	.384	.024	.407	.40	.446	.025
.476	.01	.525	.003	.610	.40				

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TM172	HALF LIFE= 63.6 H	29 GAMMA RAYS							
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE
	.0524X .	.0787 .13	.1424 .0018	.1816 .051	.3998 .0024				
	.4360 .0050	.4903 .0084	.5284 .0025	.6379 .0024	.9122 .024				
	.9642 .0059	1.0394 .0023	1.0764 .013	1.0938 .10	1.1158 .0046				
	1.1553 .0022	1.2057 .0029	1.2890 .0082	1.3486 .0024	1.3873 .091				
	1.3980 .011	1.4021 .0029	1.4660 .071	1.4704 .030	1.4768 .0042				
	1.5297 .082	1.5840 .0091	1.6084 .067	1.6218 .0011					

LU172M	HALF LIFE= 3.7 M	1 GAMMA RAYS
	ENERGY ABUNDANCE	
	.0419 .0	

LU172	HALF LIFE= 6.7 D	15 GAMMA RAYS					
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE
	.0787 .092	.0906 .041	.1127 .016	.1343 .0	.1814 .26		
	.2033 .050	.2470 .008	.8200 .19	.9007 .29	.9121 .16		
	.9290 .036	1.0024 .056	1.0806 .021	1.0935 .80	1.114 .023		

MF172	HALF LIFE= 5. Y	24 GAMMA RAYS					
	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE	ENERGY ABUNDANCE
	.0240 .22	.0619 .0	.0441 .0	.0541A .	.0670 .046		
	.0700 .0072	.0787D .092	.0818 .10	.0906D .041	.1127D .016		
	.1140 .020	.1258 .011	.1343D .0	.1814D .26	.2033D .030		
	.2470D .008	.8100D .15	.9007D .29	.9121D .16	.9290D .036		
	1.0020D .056	1.0806D .011	1.0935D .80	1.114 D .023			

* END OF FORTRAN *