Site-specific
Resident 3-D External Inputs
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Variable	Resident 3-D External Default Value	Form-input Value
ED_{res} (exposure duration - resident) yr	26	26
EF_{res} (exposure frequency) day/yr	350	350
ET_{res} (exposure time - resident) hr/day	24	24
F_{AM} (area and material factor) unitless	1	1
F_{am} (area and materials factor) unitless	1	1
F_i (fraction of time spent in compartment) unitless	1	1
F_{in} (fraction time spent indoors) unitless	1	1
$F_{OFF\text{-}SET}$ (off-set factor) unitless	1	1
GSF_b (building gamma shielding factor) unitless	1	1
t_{res} (time - resident) yr	26	26
TR (target cancer risk) unitless	0.000001	0.0001
Room material	Default	Concrete
Room position	Default	Corner
Room size (ft)	Default	10 x 10 x 10

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Site-specific

Resident Building PRGs for 3-D Direct External Exposure - Secular Equilibrium

Isotope	Soil Volume BPRG TR=0.0001 (pCi/g)	Soil Volume @ 1cm BPRG TR=0.0001 (pCi/g)	Soil Volume @ 5cm BPRG TR=0.0001 (pCi/g)	Soil Volume @ 15cm BPRG TR=0.0001 (pCi/g)	Ground Plane BPRG TR=0.0001 (pCi/cm^2{super 2})
Secular Equilibrium BPRG for Am-241	*6.50E+00*	*4.39E+00*	*1.59E+00*	*1.23E+00*	*3.80E+00*
Secular Equilibrium BPRG for Co-60	*5.60E-01*	*8.27E-01*	*2.52E-01*	*1.85E-01*	*9.85E-01*
Secular Equilibrium BPRG for Cs-137	*6.91E+00*	*6.84E+00*	*2.07E+00*	*1.66E+00*	*8.47E+00*
Secular Equilibrium BPRG for Eu-152	*1.40E+00*	*1.29E+00*	*4.28E-01*	*3.11E-01*	*1.40E+00*
Secular Equilibrium BPRG for Eu-154	*1.41E+00*	*1.47E+00*	*4.77E-01*	*3.61E-01*	*1.67E+00*
Secular Equilibrium BPRG for H-3	-	-	-	-	-
Secular Equilibrium BPRG for Pu-239	*2.74E+00*	*5.26E+00*	*2.01E+00*	*1.54E+00*	*4.80E+00*
Secular Equilibrium BPRG for Ra-226	*1.28E+00*	*1.71E+00*	*5.16E-01*	*3.93E-01*	*2.03E+00*
Secular Equilibrium BPRG for Sr-90	*2.43E+07*	*6.62E+06*	*2.86E+06*	*2.01E+06*	*1.61E+06*
Secular Equilibrium BPRG for Th-232	*7.38E-01*	*8.58E-01*	*2.63E-01*	*1.87E-01*	*9.38E-01*
Secular Equilibrium BPRG for U-235	*2.74E+00*	*5.26E+00*	*2.01E+00*	*1.54E+00*	*4.80E+00*

Site-specific

Resident Individual Contribution BPRGs for 3-D Direct External Exposure - Secular Equilibrium

Isotope	Parent	Fractional Concentration of Progeny	Soil Volume External Exposure Slope Factor (risk/yr per pCi/g)	External Exposure Slope Factor (Ground Plane) (risk/yr per pCi/cm^2{super 2})	Soil Volume External Exposure Slope Factor (1 cm) (risk/yr per pCi/g)	Soil Volume External Exposure Slope Factor (5 cm) (risk/yr per pCi/g)	Soil Volume External Exposure Slope Factor (15 cm) (risk/yr per pCi/g)	Lambda	Halflife (yr)	Concrete $F_{r\text{-}surf}$ (Infinite Volume)	Concrete $F_{r\text{-}surf}$ (Ground Plane)	Concrete $F_{r\text{-}surf}$ (1cm)	Concrete $F_{r\text{-}surf}$ (5cm)	Concrete $F_{r\text{-}surf}$ (15cm)	Soil Volume BPRG TR=0.0001 (pCi/g)	Soil Volume @ 1cm BPRG TR=0.0001 (pCi/g)	Soil Volume @ 5cm BPRG TR=0.0001 (pCi/g)	Soil Volume @ 15cm BPRG TR=0.0001 (pCi/g)	Default Ground Plane BPRG TR=0.0001 (pCi/cm^2)	Soil Volume BPRG TR=0.0001 (mg/kg)	Soil Volume @ 1cm BPRG TR=0.0001 (mg/kg)	Soil Volume @ 5cm BPRG TR=0.0001 (mg/kg)	Soil Volume @ 15cm BPRG TR=0.0001 (mg/kg)	Ground Plane BPRG TR=0.0001 (mg/cm^2{super 2})	Default Surface Factor Removed Ground Plane BPRG TR=0.0001 (pCi/cm^2)	Splash Surface Factor Corner (ground plane)	Splash Surface Factor Added Default Ground Plane BPRG TR=0.0001 (pCi/cm^2)	test out raw output
Secular Equilibrium BPRG for Am-241	***Am-241***	-	-	-	-	-	-	-	-	-	-	-	-	-	*6.50E+00*	*4.39E+00*	*1.59E+00*	*1.23E+00*	*3.80E+00*	-	-	-	-	-	*7.95E+00*		*7.24E+00*	3.79E+00
Ac-225	Am-241	1.00E+00	4.12E-08	1.20E-08	1.15E-08	2.99E-08	4.02E-08	2.53E+01	2.74E-02	7.20E-02	8.29E-01	5.87E-01	5.46E-01	5.42E-01	1.35E+03	5.92E+02	2.46E+02	1.84E+02	4.02E+02	1.28E-14	2.92E-14	7.03E-14	9.37E-14	4.29E-17	3.33E+02	1.78E+00	1.88E+02	
Am-241	Am-241	1.00E+00	2.77E-08	1.87E-08	1.38E-08	2.58E-08	2.77E-08	1.60E-03	4.32E+02	5.76E-01	1.14E+00	1.28E+00	1.27E+00	8.43E-01	2.52E+02	2.28E+02	1.23E+02	1.72E+02	1.88E+02	1.16E-09	1.28E-09	2.38E-09	1.70E-09	1.55E-12	2.14E+02	1.40E+00	1.53E+02	
At-217	Am-241	1.00E+00	9.36E-10	2.13E-10	2.17E-10	5.98E-10	8.78E-10	6.77E+08	1.02E-09	3.00E-04	1.58E-03	1.61E-03	1.71E-03	1.36E-03	1.43E+07	1.15E+07	3.93E+06	3.35E+06	1.20E+07	4.37E-26	5.42E-26	1.59E-25	1.86E-25	5.20E-29	1.90E+04	9.09E-01	2.09E+04	
Bi-213	Am-241	1.00E+00	5.43E-07	1.20E-07	1.18E-07	3.29E-07	4.97E-07	7.99E+03	8.67E-05	8.86E-02	3.74E-01	4.15E-01	4.90E-01	4.15E-01	8.34E+01	8.20E+01	2.49E+01	1.94E+01	8.91E+01	6.20E-16	6.31E-16	2.08E-15	2.66E-15	5.81E-19	3.33E+01	7.64E-01	4.36E+01	
Fr-221	Am-241	1.00E+00	1.05E-07	2.52E-08	2.56E-08	7.06E-08	1.01E-07	7.43E+04	9.32E-06	3.86E-02	2.49E-01	2.71E-01	2.78E-01	2.11E-01	9.91E+02	5.78E+02	2.04E+02	1.89E+02	6.39E+02	5.82E-18	9.99E-18	2.83E-17	3.06E-17	9.03E-21	1.59E+02	9.63E-01	1.65E+02	
Np-237	Am-241	1.00E+00	5.17E-08	2.10E-08	1.74E-08	4.13E-08	5.15E-08	3.23E-07	2.14E+06	1.72E-01	2.18E+00	1.54E+00	1.46E+00	1.56E+00	4.51E+02	1.50E+02	6.64E+01	5.01E+01	8.76E+01	3.15E-06	9.50E-06	2.14E-05	2.84E-05	1.62E-08	1.91E+02	1.59E+00	1.20E+02	
Pa-233	Am-241	1.00E+00	8.03E-07	1.88E-07	1.91E-07	5.23E-07	7.60E-07	9.38E+00	7.39E-02	3.23E-01	2.75E+00	2.37E+00	2.41E+00	2.18E+00	1.55E+01	8.87E+00	3.18E+00	2.42E+00	7.76E+00	3.12E-12	5.43E-12	1.52E-11	1.99E-11	6.21E-15	2.13E+01	1.08E+00	1.98E+01	
Pb-209	Am-241	1.00E+00	5.37E-10	5.65E-10	1.84E-10	4.17E-10	5.29E-10	1.87E+03	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-	-	-	-	-				
Po-213	Am-241	9.79E-01	1.73E-10	3.36E-11	3.46E-11	9.73E-11	1.52E-10	5.20E+12	1.33E-13	1.41E-05	4.71E-05	5.88E-05	6.63E-05	5.56E-05	1.68E+09	2.02E+09	6.35E+08	4.85E+08	2.59E+09	4.74E-32	3.94E-32	1.25E-31	1.64E-31	3.07E-35	1.22E+05	6.79E-01	1.80E+05	
Ra-225	Am-241	1.00E+00	6.11E-09	8.84E-09	4.45E-09	6.07E-09	6.10E-09	1.70E+01	4.08E-02	5.77E-02	7.95E-01	6.14E-01	5.65E-01	5.96E-01	1.14E+04	1.47E+03	1.17E+03	1.10E+03	5.71E+02	2.26E-15	1.75E-14	2.20E-14	2.33E-14	4.50E-17	4.54E+02	1.43E+00	3.18E+02	
Th-229	Am-241	1.00E+00	2.24E-07	7.08E-08	6.76E-08	1.71E-07	2.22E-07	9.44E-05	7.34E+03	3.66E-01	3.82E+00	2.91E+00	2.72E+00	2.58E+00	4.89E+01	2.04E+01	8.65E+00	7.01E+00	1.48E+01	9.62E-08	2.31E-07	5.44E-07	6.71E-07	3.17E-10	5.65E+01	1.62E+00	3.49E+01	
Tl-209	Am-241	2.09E-02	1.03E-05	1.86E-06	1.91E-06	5.47E-06	8.71E-06	1.69E+05	4.11E-06	9.07E-01	3.45E+00	3.88E+00	4.39E+00	3.66E+00	2.05E+01	2.60E+01	7.98E+00	6.02E+00	2.99E+01	1.17E-16	9.27E-17	3.02E-16	4.00E-16	8.04E-20	1.03E+02	6.65E-01	1.55E+02	
U-233	Am-241	1.00E+00	7.11E-10	3.57E-10	2.07E-10	5.06E-10	6.88E-10	4.35E-06	1.59E+05	1.30E-02	1.98E-01	1.24E-01	1.17E-01	1.27E-01	4.34E+05	1.56E+05	6.79E+04	4.59E+04	5.66E+04	2.39E-10	6.67E-10	1.53E-09	2.26E-09	1.83E-12	1.12E+04	1.89E+00	5.93E+03	
Secular Equilibrium BPRG for Co-60	***Co-60***	-	-	-	-	-	-	-	-	-	-	-	-	-	*5.60E-01*	*8.27E-01*	*2.52E-01*	*1.85E-01*	*9.85E-01*	-	-	-	-	-	*1.84E+00*		*3.17E+00*	9.85E-01
Co-60	Co-60	1.00E+00	1.24E-05	2.18E-06	2.26E-06	6.48E-06	1.04E-05	1.31E-01	5.27E+00	5.79E-01	1.87E+00	2.15E+00	2.45E+00	2.08E+00	5.60E-01	8.27E-01	2.52E-01	1.85E-01	9.85E-01	1.58E-09	1.07E-09	3.51E-09	4.79E-09	8.99E-13	1.84E+00	5.81E-01	3.17E+00	
Secular Equilibrium BPRG for Cs-137	***Cs-137***	-	-	-	-	-	-	-	-	-	-	-	-	-	*6.91E+00*	*6.84E+00*	*2.07E+00*	*1.66E+00*	*8.47E+00*	-	-	-	-	-	*7.91E+00*		*1.31E+01*	8.47E+00
Ba-137m	Cs-137	9.44E-01	2.69E-06	5.36E-07	5.47E-07	1.54E-06	2.39E-06	1.43E+05	4.86E-06	2.29E-01	9.34E-01	1.13E+00	1.33E+00	1.07E+00	6.92E+00	6.84E+00	2.07E+00	1.66E+00	8.48E+00	2.69E-16	2.72E-16	9.00E-16	1.12E-15	2.20E-19	7.92E+00	6.02E-01	1.32E+01	
Cs-137	Cs-137	1.00E+00	5.52E-10	5.53E-10	1.92E-10	4.24E-10	5.42E-10	2.30E-02	3.02E+01	9.65E-01	1.14E+00	1.43E+00	1.37E+00	1.93E+00	7.52E+03	1.46E+04	6.89E+03	3.84E+03	6.38E+03	1.54E-12	7.93E-13	1.68E-12	3.01E-12	1.81E-15	7.27E+03	6.73E-01	1.08E+04	
Secular Equilibrium BPRG for Eu-152	***Eu-152***	-	-	-	-	-	-	-	-	-	-	-	-	-	*1.40E+00*	*1.29E+00*	*4.28E-01*	*3.11E-01*	*1.40E+00*	-	-	-	-	-	*3.92E+00*		*5.85E+00*	1.40E+00
Eu-152	Eu-152	1.00E+00	5.41E-06	1.03E-06	1.05E-06	2.97E-06	4.66E-06	5.12E-02	1.35E+01	5.28E-01	2.80E+00	2.97E+00	3.15E+00	2.76E+00	1.40E+00	1.29E+00	4.28E-01	3.11E-01	1.40E+00	4.10E-09	4.48E-09	1.34E-08	1.85E-08	4.12E-12	3.92E+00	6.71E-01	5.85E+00	
Gd-152	Eu-152	2.79E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-15	1.08E+14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-	-	-	-	-		0.00E+00		
Nd-144	Eu-152	2.79E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-16	2.29E+15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-	-	-	-	-		0.00E+00		
Sm-148	Eu-152	2.79E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-17	7.00E+15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-	-	-	-	-		0.00E+00		
Secular Equilibrium BPRG for Eu-154	***Eu-154***	-	-	-	-	-	-	-	-	-	-	-	-	-	*1.41E+00*	*1.47E+00*	*4.77E-01*	*3.61E-01*	*1.67E+00*	-	-	-	-	-	*3.64E+00*		*5.50E+00*	1.67E+00
Eu-154	Eu-154	1.00E+00	5.85E-06	1.10E-06	1.13E-06	3.19E-06	5.03E-06	8.06E-02	8.59E+00	4.85E-01	2.18E+00	2.42E+00	2.63E+00	2.20E+00	1.41E+00	1.47E+00	4.77E-01	3.61E-01	1.67E+00	2.62E-09	2.52E-09	7.77E-09	1.03E-08	2.21E-12	3.64E+00	6.62E-01	5.50E+00	
Secular Equilibrium BPRG for H-3	***H-3***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
H-3	H-3	1.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-02	1.23E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-	-	-	-	-		0.00E+00		
Secular Equilibrium BPRG for Pu-239	***Pu-239***	-	-	-	-	-	-	-	-	-	-	-	-	-	*2.74E+00*	*5.26E+00*	*2.01E+00*	*1.54E+00*	*4.80E+00*	-	-	-	-	-	*6.98E+00*		*6.40E+00*	4.80E+00
Ac-227	Pu-239	1.00E+00	1.98E-10	1.65E-10	6.88E-11	1.53E-10	1.95E-10	3.18E-02	2.18E+01	1.54E-02	2.41E-01	1.48E-01	1.36E-01	1.53E-01	1.31E+06	3.93E+05	1.92E+05	1.34E+05	1.01E+05	1.06E-14	3.52E-14	7.20E-14	1.03E-13	1.37E-16	2.43E+04	1.92E+00	1.27E+04	
At-219	Pu-239	8.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E+05	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-	-	-	-	-		0.00E+00		
Bi-211	Pu-239	1.00E+00	1.90E-07	4.19E-08	4.26E-08	1.19E-07	1.77E-07	1.70E+05	4.07E-06	4.00E-02	1.98E-01	2.16E-01	2.43E-01	1.96E-01	5.27E+02	4.36E+02	1.38E+02	1.15E+02	4.84E+02	4.56E-18	5.52E-18	1.74E-17	2.08E-17	4.97E-21	9.58E+01	8.20E-01	1.17E+02	
Bi-215	Pu-239	8.03E-07	1.08E-06	2.32E-07	2.30E-07	6.45E-07	9.77E-07	4.79E+04	1.45E-05	1.96E-01	1.01E+00	1.06E+00	1.15E+00	9.31E-01	2.35E+07	2.05E+07	6.76E+06	5.49E+06	2.13E+07	3.71E-22	4.25E-22	1.29E-21	1.59E-21	4.08E-25	2.15E+07	7.98E-01	2.70E+07	
Fr-223	Pu-239	1.38E-02	1.35E-07	4.83E-08	4.00E-08	9.60E-08	1.30E-07	1.66E+04	4.19E-05	1.52E-01	1.69E+00	1.39E+00	1.26E+00	1.17E+00	1.41E+04	5.22E+03	2.40E+03	1.92E+03	3.56E+03	1.86E-18	5.01E-18	1.09E-17	1.36E-17	7.33E-21	6.02E+03	1.37E+00	4.39E+03	
Pa-231	Pu-239	1.00E+00	1.27E-07	3.14E-08	2.97E-08	8.20E-08	1.20E-07	2.12E-05	3.28E+04	1.63E-01	2.21E+00	1.46E+00	1.40E+00	1.51E+00	1.93E+02	9.24E+01	3.48E+01	2.20E+01	5.79E+01	1.10E-07	2.29E-07	6.08E-07	9.62E-07	3.66E-10	1.28E+02	1.61E+00	7.97E+01	
Pb-211	Pu-239	1.00E+00	2.91E-07	6.40E-08	6.03E-08	1.69E-07	2.60E-07	1.01E+04	6.87E-05	3.36E-02	1.33E-01	1.50E-01	1.72E-01	1.41E-01	4.11E+02	4.44E+02	1.38E+02	1.09E+02	4.73E+02	9.87E-17	9.15E-17	2.93E-16	3.72E-16	8.58E-20	6.29E+01	7.21E-01	8.72E+01	
Po-211	Pu-239	2.76E-03	3.76E-08	7.31E-09	7.49E-09	2.11E-08	3.32E-08	4.24E+07	1.64E-08	3.09E-03	1.09E-02	1.33E-02	1.57E-02	1.33E-02	1.25E+07	1.46E+07	4.40E+06	3.29E+06	1.82E+07	7.72E-25	6.63E-25	2.20E-24	2.94E-24	5.31E-28	1.98E+05	6.81E-01	2.91E+05	
Po-215	Pu-239	1.00E+00	7.48E-10	1.59E-10	1.62E-10	4.54E-10	6.89E-10	1.23E+10	5.65E-11	1.12E-04	4.16E-04	4.92E-04	6.14E-04	5.18E-04	4.79E+07	5.04E+07	1.44E+07	1.12E+07	6.07E+07	7.10E-28	6.75E-28	2.36E-27	3.03E-27	5.60E-31	2.53E+04	7.39E-01	3.42E+04	
Pu-239	Pu-239	1.00E+00	2.09E-10	2.06E-10	6.88E-11	1.51E-10	2.01E-10	2.87E-05	2.41E+04	1.26E-02	2.01E-01	1.26E-01	1.18E-01	1.33E-01	1.52E+06	4.64E+05	2.25E+05	1.51E+05	9.70E+04	1.06E-11	3.47E-11	7.17E-11	1.07E-10	1.66E-13	1.95E+04	1.80E+00	1.09E+04	
Ra-223	Pu-239	1.00E+00	4.55E-07	1.18E-07	1.17E-07	3.12E-07	4.37E-07	2.21E+01	3.13E-02	2.90E-01	2.01E+00	1.84E+00	1.78E+00	1.51E+00	3.04E+01	1.86E+01	7.21E+00	6.07E+00	1.69E+01	6.44E-13	1.05E-12	2.71E-12	3.22E-12	1.16E-15	3.40E+01	1.13E+00	3.00E+01	
Rn-219	Pu-239	1.00E+00	2.35E-07	5.17E-08	5.29E-08	1.49E-07	2.21E-07	5.52E+06	1.26E-07	5.53E-02	2.43E-01	2.70E-01	3.14E-01	2.44E-01	3.09E+02	2.81E+02	8.61E+01	7.45E+01	3.19E+02	2.49E-19	2.74E-19	8.94E-19	1.03E-18	2.42E-22	7.75E+01	7.54E-01	1.03E+02	
Th-227	Pu-239	9.86E-01	4.45E-07	1.07E-07	1.07E-07	2.93E-07	4.24E-07	1.35E+01	5.12E-02	2.64E-01	2.60E+00	2.02E+00	1.99E+00	1.86E+00	3.46E+01	1.88E+01	6.97E+00	5.16E+00	1.46E+01	9.41E-13	1.73E-12	4.66E-12	6.30E-12	2.23E-15	3.80E+01	1.34E+00	2.84E+01	
Th-231	Pu-239	1.00E+00	2.49E-08	1.24E-08	8.93E-09	2.04E-08	2.49E-08	2.38E+02	2.91E-03	1.86E-01	2.63E+00	1.73E+00	1.65E+00	1.80E+00	8.67E+02	2.59E+02	1.20E+02	8.96E+01	1.23E+02	2.17E-15	7.27E-15	1.57E-14	2.10E-14	1.53E-17	3.23E+02	1.70E+00	1.90E+02	
Tl-207	Pu-239	9.97E-01	1.59E-08	9.53E-09	3.81E-09	9.60E-09	1.42E-08	7.64E+04	9.08E-06	7.92E-04	2.62E-03	3.15E-03	3.53E-03	3.00E-03	3.20E+05	3.35E+05	1.19E+05	9.42E+04	1.61E+05	1.65E-20	1.57E-20	4.43E-20	5.58E-20	3.26E-23	4.22E+02	6.65E-01	6.34E+02	
U-235	Pu-239	1.00E+00	5.51E-07	1.39E-07	1.40E-07	3.83E-07	5.36E-07	9.84E-10	7.04E+08	2.11E+00	1.38E+00	1.71E+00	1.59E+00	1.52E+00	3.45E+00	1.67E+01	6.59E+00	4.93E+00	2.09E+01	1.34E-01	2.78E-02	7.03E-02	9.39E-02	2.21E-05	2.88E+01	1.10E+00	2.63E+01	
U-235m	Pu-239	9.99E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E+04	4.95E-05	1.84E-13	2.97E-12	1.80E-12	1.63E-12	1.88E-12	-	-	-	-	-	-	-	-	-	-		0.00E+00		
Secular Equilibrium BPRG for Ra-226	***Ra-226***	-	-	-	-	-	-	-	-	-	-	-	-	-	*1.28E+00*	*1.71E+00*	*5.16E-01*	*3.93E-01*	*2.03E+00*	-	-	-	-	-	*2.63E+00*		*3.85E+00*	2.03E+00
At-218	Ra-226	2.00E-04	2.74E-11	2.00E-11	8.39E-12	1.84E-11	2.56E-11	1.46E+07	4.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-	-	-	-	-		0.00E+00		
Bi-210	Ra-226	1.00E+00	2.77E-09	4.82E-09	9.55E-10	2.06E-09	2.69E-09	5.05E+01	1.37E-02	3.29E-07	1.66E-06	1.81E-06	2.01E-06	1.61E-06	4.40E+09	2.32E+09	9.72E+08	9.30E+08	5.00E+08	1.83E-21	3.48E-21	8.31E-21	8.69E-21	1.61E-23	8.30E+02	8.63E-01	9.62E+02	
Bi-214	Ra-226	1.00E+00	7.34E-06	1.28E-06	1.33E-06	3.81E-06	6.14E-06	1.83E+04	3.79E-05	3.87E-01	1.27E+00	1.50E+00	1.77E+00	1.46E+00	1.41E+00	2.01E+00	5.96E-01	4.48E-01	2.45E+00	1.61E-14	1.13E-14	3.81E-14	5.06E-14	9.24E-18	3.11E+00	6.40E-01	4.86E+00	
Hg-206	Ra-226	1.90E-08	4.83E-07	1.12E-07	1.10E-07	3.06E-07	4.52E-07	4.47E+04	1.55E-05	1.12E-01	6.12E-01	6.56E-01	7.14E-01	5.82E-01	3.88E+09	2.93E+09	9.65E+08	8.03E+08	3.09E+09	2.30E-24	3.05E-24	9.27E-24	1.11E-23	2.90E-27	1.89E+09	8.54E-01	2.22E+09	
Pb-210	Ra-226	1.00E+00	1.48E-09	1.72E-09	9.53E-10	1.47E-09	1.48E-09	3.12E-02	2.22E+01	6.39E-02	9.46E-01	5.87E-01	5.16E-01	5.64E-01	4.23E+04	7.17E+03	5.30E+03	4.80E+03	2.47E+03	3.08E-13	1.82E-12	2.46E-12	2.72E-12	5.29E-15	2.34E+03	2.52E+00	9.28E+02	
Pb-214	Ra-226	1.00E+00	9.94E-07	2.23E-07	2.26E-07	6.30E-07	9.31E-07	1.36E+04	5.10E-05	2.62E-01	1.49E+00	1.49E+00	1.60E+00	1.31E+00	1.54E+01	1.19E+01	3.98E+00	3.28E+00	1.21E+01	1.98E-15	2.57E-15	7.67E-15	9.32E-15	2.53E-18	1.80E+01	9.03E-01	2.00E+01	
Po-210	Ra-226	1.00E+00	4.51E-11	8.70E-12	8.95E-12	2.54E-11	3.96E-11	1.83E+00	3.79E-01	3.55E-06	1.13E-05	1.43E-05	1.61E-05	1.37E-05	2.51E+10	3.14E+10	9.79E+09	7.41E+09	4.10E+10	8.89E-21	7.09E-21	2.28E-20	3.01E-20	5.44E-24	4.63E+05	6.73E-01	6.88E+05	
Po-214	Ra-226	1.00E+00	3.85E-10	7.43E-11	7.62E-11	2.15E-10	3.37E-10	1.33E+11	5.21E-12	3.05E-05	9.69E-05	1.23E-04	1.39E-04	1.18E-04	3.42E+08	4.29E+08	1.34E+08	1.01E+08	5.58E+08	9.14E-30	7.28E-30	2.32E-29	3.09E-29	5.60E-33	5.41E+04	6.74E-01	8.03E+04	
Po-218	Ra-226	1.00E+00	6.84E-15	5.30E-15	3.16E-15	5.98E-15	6.82E-15	1.17E+05	5.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-	-	-	-	-				
Ra-226	Ra-226	1.00E+00	2.50E-08	6.25E-09	6.33E-09	1.73E-08	2.43E-08	4.33E-04	1.60E+03	9.34E-01	1.01E+00	1.31E+00	1.29E+00	1.41E+00	1.72E+02	4.84E+02	1.80E+02	1.17E+02	6.38E+02	5.89E-09	2.09E-09	5.64E-09	8.67E-09	1.59E-12	6.44E+02	1.04E+00	6.19E+02	
Rn-218	Ra-226	2.00E-07	3.39E-09	6.81E-10	6.97E-10	1.96E-09	3.04E-09	6.24E+08	1.11E-09	3.05E-04	1.19E-03	1.48E-03	1.80E-03	1.41E-03	1.94E+13	1.94E+13	5.68E+12	4.70E+12	2.47E+13	3.49E-32	3.49E-32	1.19E-31	1.44E-31	2.75E-35	2.94E+10	7.01E-01	4.20E+10	
Rn-222	Ra-226	1.00E+00	1.69E-09	3.50E-10	3.57E-10	1.01E-09	1.54E-09	6.62E+01	1.05E-02	2.03E-04	7.57E-04	9.25E-04	1.18E-03	1.12E-03	1.17E+07	1.21E+07	3.38E+06	2.33E+06	1.51E+07	5.58E-19	5.36E-19	1.92E-18	2.79E-18	4.31E-22	1.14E+04	7.37E-01	1.55E+04	
Tl-206	Ra-226	1.34E-06	6.11E-09	8.57E-09	2.07E-09	4.41E-09	5.86E-09	8.67E+04	7.99E-06	2.77E-04	2.09E-03	1.81E-03	1.61E-03	1.41E-03	1.77E+12	7.98E+11	4.22E+11	3.61E+11	1.67E+11	2.61E-27	5.77E-27	1.09E-26	1.28E-26	2.75E-29	3.49E+08	1.41E+00	2.48E+08	
Tl-210	Ra-226	2.10E-04	1.34E-05	2.41E-06	2.48E-06	7.12E-06	1.14E-05	2.80E+05	2.47E-06	9.15E-01	3.76E+00	4.11E+00	4.60E+00	3.89E+00	1.55E+03	1.87E+03	5.84E+02	4.32E+02	2.11E+03	9.36E-19	7.78E-19	2.49E-18	3.37E-18	6.88E-22	7.93E+03	6.76E-01	1.17E+04	
Secular Equilibrium BPRG for Sr-90	***Sr-90***	-	-	-	-	-	-	-	-	-	-	-	-	-	*2.43E+07*	*6.62E+06*	*2.86E+06*	*2.01E+06*	*1.61E+06*	-	-	-	-	-	*2.40E+02*		*1.43E+02*	1.61E+06
Sr-90	Sr-90	1.00E+00	4.83E-10	3.74E-10	1.67E-10	3.77E-10	4.76E-10	2.41E-02	2.88E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-	-	-	-	-		0.00E+00		
Y-90	Sr-90	1.00E+00	1.90E-08	1.67E-08	6.09E-09	1.31E-08	1.80E-08	9.47E+01	7.32E-03	8.66E-06	1.49E-04	9.95E-05	1.07E-04	1.11E-04	2.43E+07	6.62E+06	2.86E+06	2.01E+06	1.61E+06	7.57E-20	2.78E-19	6.44E-19	9.16E-19	1.14E-21	2.40E+02	1.68E+00	1.43E+02	
Secular Equilibrium BPRG for Th-232	***Th-232***	-	-	-	-	-	-	-	-	-	-	-	-	-	*7.38E-01*	*8.58E-01*	*2.63E-01*	*1.87E-01*	*9.38E-01*	-	-	-	-	-	*2.01E+00*		*2.83E+00*	9.40E-01
Ac-228	Th-232	1.00E+00	4.04E-06	7.65E-07	7.83E-07	2.22E-06	3.50E-06	9.87E+02	7.02E-04	4.04E-01	2.32E+00	2.14E+00	2.30E+00	2.06E+00	2.46E+00	2.39E+00	7.85E-01	5.55E-01	2.26E+00	1.82E-13	1.88E-13	5.71E-13	8.08E-13	1.99E-16	5.24E+00	7.49E-01	7.00E+00	
Bi-212	Th-232	1.00E+00	4.96E-07	9.91E-08	9.58E-08	2.71E-07	4.27E-07	6.02E+03	1.15E-04	5.42E-02	4.09E-01	3.20E-01	3.22E-01	3.11E-01	1.49E+02	1.31E+02	4.60E+01	3.01E+01	9.90E+01	4.59E-16	5.23E-16	1.49E-15	2.27E-15	6.91E-19	4.05E+01	8.92E-01	4.54E+01	
Pb-212	Th-232	1.00E+00	4.96E-07	1.24E-07	1.24E-07	3.36E-07	4.78E-07	5.71E+02	1.21E-03	2.46E-01	1.47E+00	1.46E+00	1.47E+00	1.17E+00	3.29E+01	2.21E+01	8.09E+00	7.17E+00	2.21E+01	2.19E-14	3.27E-14	8.91E-14	1.01E-13	3.26E-17	3.25E+01	1.05E+00	3.09E+01	
Po-212	Th-232	6.41E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E+13	9.48E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-	-	-	-	-				
Po-216	Th-232	1.00E+00	7.10E-11	1.37E-11	1.41E-11	3.98E-11	6.24E-11	1.51E+08	4.60E-09	5.57E-06	1.77E-05	2.24E-05	2.53E-05	2.15E-05	1.01E+10	1.27E+10	3.98E+09	3.00E+09	1.66E+10	2.74E-28	2.18E-28	6.98E-28	9.28E-28	1.68E-31	2.94E+05	6.73E-01	4.37E+05	
Ra-224	Th-232	1.00E+00	3.91E-08	9.01E-09	9.23E-09	2.58E-08	3.74E-08	6.91E+01	1.00E-02	1.29E-02	6.38E-02	7.08E-02	7.88E-02	5.98E-02	7.93E+03	6.14E+03	1.97E+03	1.80E+03	6.97E+03	7.93E-16	1.02E-15	3.19E-15	3.50E-15	9.02E-19	4.45E+02	8.76E-01	5.07E+02	
Ra-228	Th-232	1.00E+00	3.43E-11	4.44E-10	3.46E-11	3.44E-11	3.43E-11	1.21E-01	5.75E+00	8.77E-01	1.06E+00	1.33E+00	1.28E+00	1.27E+00	1.33E+05	8.73E+04	9.09E+04	9.21E+04	8.51E+03	2.76E-14	4.21E-14	4.04E-14	3.99E-14	4.31E-16	9.02E+03	1.81E+00	4.99E+03	
Rn-220	Th-232	1.00E+00	2.77E-09	5.65E-10	5.77E-10	1.63E-09	2.50E-09	3.93E+05	1.76E-06	8.86E-01	1.14E+00	1.40E+00	1.42E+00	1.77E+00	1.64E+03	4.96E+03	1.73E+03	9.05E+02	6.20E+03	6.64E-19	2.19E-19	6.28E-19	1.20E-18	1.75E-22	7.07E+03	7.21E-01	9.81E+03	
Th-228	Th-232	1.00E+00	5.64E-09	1.89E-09	1.67E-09	4.22E-09	5.55E-09	3.63E-01	1.91E+00	2.44E-02	3.31E-01	2.17E-01	2.04E-01	2.12E-01	2.92E+04	1.11E+04	4.67E+03	3.41E+03	6.41E+03	4.18E-14	1.10E-13	2.61E-13	3.58E-13	1.90E-16	2.12E+03	1.90E+00	1.11E+03	
Th-232	Th-232	1.00E+00	3.58E-10	3.26E-10	1.52E-10	3.10E-10	3.57E-10	4.93E-11	1.41E+10	3.04E+00	9.10E-01	1.23E+00	1.16E+00	1.18E+00	3.68E+03	2.13E+04	1.12E+04	9.48E+03	1.35E+04	2.48E-03	4.28E-04	8.17E-04	9.62E-04	6.74E-07	1.23E+04	2.04E+00	6.03E+03	
Tl-208	Th-232	3.59E-01	1.75E-05	2.77E-06	2.90E-06	8.44E-06	1.39E-05	1.19E+05	5.81E-06	5.80E-01	2.28E+00	2.67E+00	3.15E+00	2.70E+00	1.10E+00	1.44E+00	4.20E-01	2.98E-01	1.77E+00	3.08E-15	2.35E-15	8.05E-15	1.14E-14	1.92E-18	4.04E+00	6.16E-01	6.55E+00	
Secular Equilibrium BPRG for U-235	***U-235***	-	-	-	-	-	-	-	-	-	-	-	-	-	*2.74E+00*	*5.26E+00*	*2.01E+00*	*1.54E+00*	*4.80E+00*	-	-	-	-	-	*6.98E+00*		*6.38E+00*	4.80E+00
Ac-227	U-235	1.00E+00	1.98E-10	1.65E-10	6.88E-11	1.53E-10	1.95E-10	3.18E-02	2.18E+01	1.54E-02	2.41E-01	1.48E-01	1.36E-01	1.53E-01	1.31E+06	3.93E+05	1.92E+05	1.34E+05	1.01E+05	1.06E-14	3.52E-14	7.20E-14	1.03E-13	1.37E-16	2.43E+04	1.92E+00	1.27E+04	
At-219	U-235	8.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E+05	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-	-	-	-	-	-	-	-	-	-		0.00E+00		
Bi-211	U-235	1.00E+00	1.90E-07	4.19E-08	4.26E-08	1.19E-07	1.77E-07	1.70E+05	4.07E-06	4.00E-02	1.98E-01	2.16E-01	2.43E-01	1.96E-01	5.27E+02	4.36E+02	1.38E+02	1.15E+02	4.84E+02	4.56E-18	5.52E-18	1.74E-17	2.08E-17	4.97E-21	9.58E+01	8.20E-01	1.17E+02	
Bi-215	U-235	8.03E-07	1.08E-06	2.32E-07	2.30E-07	6.45E-07	9.77E-07	4.79E+04	1.45E-05	1.96E-01	1.01E+00	1.06E+00	1.15E+00	9.31E-01	2.35E+07	2.05E+07	6.76E+06	5.49E+06	2.13E+07	3.71E-22	4.25E-22	1.29E-21	1.59E-21	4.08E-25	2.15E+07	7.98E-01	2.70E+07	
Fr-223	U-235	1.38E-02	1.35E-07	4.83E-08	4.00E-08	9.60E-08	1.30E-07	1.66E+04	4.19E-05	1.52E-01	1.69E+00	1.39E+00	1.26E+00	1.17E+00	1.41E+04	5.22E+03	2.40E+03	1.92E+03	3.56E+03	1.86E-18	5.01E-18	1.09E-17	1.36E-17	7.33E-21	6.02E+03	1.37E+00	4.39E+03	
Pa-231	U-235	1.00E+00	1.27E-07	3.14E-08	2.97E-08	8.20E-08	1.20E-07	2.12E-05	3.28E+04	1.63E-01	2.21E+00	1.46E+00	1.40E+00	1.51E+00	1.93E+02	9.24E+01	3.48E+01	2.20E+01	5.79E+01	1.10E-07	2.29E-07	6.08E-07	9.62E-07	3.66E-10	1.28E+02	1.61E+00	7.97E+01	
Pb-211	U-235	1.00E+00	2.91E-07	6.40E-08	6.03E-08	1.69E-07	2.60E-07	1.01E+04	6.87E-05	3.36E-02	1.33E-01	1.50E-01	1.72E-01	1.41E-01	4.11E+02	4.44E+02	1.38E+02	1.09E+02	4.73E+02	9.87E-17	9.15E-17	2.93E-16	3.72E-16	8.58E-20	6.29E+01	7.21E-01	8.72E+01	
Po-211	U-235	2.76E-03	3.76E-08	7.31E-09	7.49E-09	2.11E-08	3.32E-08	4.24E+07	1.64E-08	3.09E-03	1.09E-02	1.33E-02	1.57E-02	1.33E-02	1.25E+07	1.46E+07	4.40E+06	3.29E+06	1.82E+07	7.72E-25	6.63E-25	2.20E-24	2.94E-24	5.31E-28	1.98E+05	6.81E-01	2.91E+05	
Po-215	U-235	1.00E+00	7.48E-10	1.59E-10	1.62E-10	4.54E-10	6.89E-10	1.23E+10	5.65E-11	1.12E-04	4.16E-04	4.92E-04	6.14E-04	5.18E-04	4.79E+07	5.04E+07	1.44E+07	1.12E+07	6.07E+07	7.10E-28	6.75E-28	2.36E-27	3.03E-27	5.60E-31	2.53E+04	7.39E-01	3.42E+04	
Ra-223	U-235	1.00E+00	4.55E-07	1.18E-07	1.17E-07	3.12E-07	4.37E-07	2.21E+01	3.13E-02	2.90E-01	2.01E+00	1.84E+00	1.78E+00	1.51E+00	3.04E+01	1.86E+01	7.21E+00	6.07E+00	1.69E+01	6.44E-13	1.05E-12	2.71E-12	3.22E-12	1.16E-15	3.40E+01	1.13E+00	3.00E+01	
Rn-219	U-235	1.00E+00	2.35E-07	5.17E-08	5.29E-08	1.49E-07	2.21E-07	5.52E+06	1.26E-07	5.53E-02	2.43E-01	2.70E-01	3.14E-01	2.44E-01	3.09E+02	2.81E+02	8.61E+01	7.45E+01	3.19E+02	2.49E-19	2.74E-19	8.94E-19	1.03E-18	2.42E-22	7.75E+01	8.08E-01	9.60E+01	
Th-227	U-235	9.86E-01	4.45E-07	1.07E-07	1.07E-07	2.93E-07	4.24E-07	1.35E+01	5.12E-02	2.64E-01	2.60E+00	2.02E+00	1.99E+00	1.86E+00	3.46E+01	1.88E+01	6.97E+00	5.16E+00	1.46E+01	9.41E-13	1.73E-12	4.66E-12	6.30E-12	2.23E-15	3.80E+01	1.34E+00	2.84E+01	
Th-231	U-235	1.00E+00	2.49E-08	1.24E-08	8.93E-09	2.04E-08	2.49E-08	2.38E+02	2.91E-03	1.86E-01	2.63E+00	1.73E+00	1.65E+00	1.80E+00	8.67E+02	2.59E+02	1.20E+02	8.96E+01	1.23E+02	2.17E-15	7.27E-15	1.57E-14	2.10E-14	1.53E-17	3.23E+02	1.70E+00	1.90E+02	
Tl-207	U-235	9.97E-01	1.59E-08	9.53E-09	3.81E-09	9.60E-09	1.42E-08	7.64E+04	9.08E-06	7.92E-04	2.62E-03	3.15E-03	3.53E-03	3.00E-03	3.20E+05	3.35E+05	1.19E+05	9.42E+04	1.61E+05	1.65E-20	1.57E-20	4.43E-20	5.58E-20	3.26E-23	4.22E+02	6.65E-01	6.34E+02	
U-235	U-235	1.00E+00	5.51E-07	1.39E-07	1.40E-07	3.83E-07	5.36E-07	9.84E-10	7.04E+08	2.11E+00	1.38E+00	1.71E+00	1.59E+00	1.52E+00	3.45E+00	1.67E+01	6.59E+00	4.93E+00	2.09E+01	1.34E-01	2.78E-02	7.03E-02	9.39E-02	2.21E-05	2.88E+01	1.10E+00	2.63E+01	

Concrete 10x10x10 Splash Room Ratio

Nuclide	Corner	Average	Center	Wall
Ac-223	1.459577042	1.283964419	0.797945164	1.236732235
Ac-224	1.177979118	1.042014613	0.688322533	1.010205103
Ac-225	1.775713269	1.557268434	0.938741064	1.494446938
Ac-226	1.06236754	0.943288226	0.639395982	0.91782774
Ac-227	1.923815396	1.692760571	1.023535766	1.626037734
Ac-228	0.748586914	0.669201797	0.457055158	0.65321795
Ac-230	0.710158483	0.635265336	0.431891765	0.619743383
Ac-231	0.894432603	0.797000655	0.557014947	0.779133095
Ac-232	0.671715579	0.601581254	0.409857911	0.587147624
Ac-233	0.714104473	0.639017723	0.450984863	0.626337702
Ag-100m	0.671852464	0.602028153	0.420789347	0.589524215
Ag-101	0.706755102	0.632912172	0.445340727	0.620038315
Ag-102m	0.6396746	0.573659268	0.397704863	0.561030926
Ag-102	0.667761183	0.598475062	0.417362275	0.585824356
Ag-103	0.742792799	0.66521866	0.465881562	0.650864588
Ag-104	0.684465878	0.613464603	0.426845029	0.600369024
Ag-104m	0.685071668	0.613713825	0.429296855	0.60083008
Ag-105	0.815817477	0.730253374	0.511292458	0.714474134
Ag-105m	0.850674564	0.761432746	0.530494874	0.74431853
Ag-106	0.737219071	0.659713946	0.464376538	0.646297683
Ag-106m	0.690628482	0.618924788	0.431247281	0.605741682
Ag-108	0.759910073	0.680539147	0.474334428	0.665760452
Ag-108m	0.725330467	0.649601951	0.455193843	0.636243986
Ag-109m	1.11341802	0.996907904	0.667650781	0.967595232
Ag-110	0.694118567	0.622000595	0.435858383	0.609311957
Ag-110m	0.663920793	0.595286272	0.414272771	0.582735063
Ag-111	0.761277997	0.680975969	0.489816728	0.668978222
Ag-111m	1.08605639	0.972436284	0.652452976	0.944326871
Ag-112	0.653399716	0.585927753	0.407460505	0.573357954
Ag-113m	0.753422141	0.674266347	0.479655877	0.661426456
Ag-113	0.731389031	0.654785117	0.466783158	0.642451722
Ag-114	0.661533319	0.592972462	0.41367586	0.580413921
Ag-115	0.657071891	0.589111882	0.411379682	0.57660034
Ag-116	0.630568201	0.565640697	0.391629878	0.553128216
Ag-117	0.628614752	0.563919522	0.390674186	0.551434472
Ag-99	0.683336547	0.612180406	0.429360335	0.599600555
Al-26	0.641917166	0.575474648	0.399596588	0.563076763
Al-28	0.604137187	0.542244986	0.371906732	0.529837072
Al-29	0.625326431	0.561360727	0.386429335	0.5484846
Am-237	0.980321066	0.873452672	0.598498303	0.851726311
Am-238	0.780668422	0.697933663	0.476902451	0.681002481
Am-239	1.198707187	1.065415793	0.712976423	1.035138448
Am-240	0.788115838	0.704650407	0.479008391	0.687156283
Am-241	1.404296554	1.248365367	0.792090149	1.205096848
Am-242	1.453936354	1.291703909	0.836025705	1.250422212
Am-242m	1.593016165	1.414904483	0.900813294	1.367550171
Am-243	1.142150372	1.014869354	0.682450157	0.986280669
Am-244	0.823838289	0.736567779	0.50194523	0.718717254
Am-244m	1.203963391	1.072467225	0.699232912	1.039719992
Am-245	1.0790834	0.96137255	0.657606691	0.936675707
Am-246	0.898799155	0.802870401	0.546899835	0.782916227
Am-246m	0.695186464	0.62307838	0.428824739	0.608808887
Am-247	1.018909917	0.908191059	0.626843291	0.885972548
Ar-37	0	0	0	0

Ar-39	0	0	0	0
Ar-41	0.629914226	0.565447687	0.389465262	0.552511407
Ar-42	0	0	0	0
Ar-43	0.628393158	0.56390192	0.389213566	0.551292447
Ar-44	0.623975338	0.559837764	0.387054232	0.54738532
As-68	0.659528632	0.591239031	0.411889947	0.578672271
As-69	0.707658321	0.633283707	0.447263584	0.620770221
As-70	0.658104121	0.590032773	0.410505202	0.577379409
As-71	0.753307053	0.672823703	0.473436016	0.658597663
As-72	0.688512544	0.616565697	0.432454816	0.604083336
As-73	2.473904913	2.125283661	1.119923469	2.006834051
As-74	0.712990537	0.637938263	0.44773798	0.62485297
As-76	0.684124243	0.612933492	0.429703265	0.600294393
As-77	0.798642759	0.712672336	0.505666284	0.698058624
As-78	0.653032163	0.585636199	0.406910058	0.573020292
As-79	0.703049146	0.629522296	0.44401685	0.617300457
At-204	0.738668305	0.6599823	0.459032903	0.645700972
At-205	0.769488821	0.685844459	0.465293012	0.668609376
At-206	0.728853982	0.651353715	0.451610937	0.63700967
At-207	0.727429128	0.649472918	0.442197031	0.633578772
At-208	0.720641699	0.644062535	0.442310674	0.629024243
At-209	0.758523535	0.676635841	0.461863149	0.660295445
At-210	0.69863382	0.624565444	0.424339811	0.608970196
At-211	1.624789391	1.418582177	0.848494889	1.358602087
At-215	0.78879207	0.703470309	0.492932245	0.68890708
At-216	1.391160162	1.217348135	0.749945492	1.169806138
At-217	0.908612332	0.806392173	0.54883972	0.785427701
At-218	0	0	0	0
At-219	0	0	0	0
At-220	0.797674445	0.712280301	0.504214074	0.697841418
Au-186	0.726009493	0.648864303	0.453017751	0.634897292
Au-187	0.730470964	0.651287376	0.440103827	0.634537222
Au-190	0.66150468	0.592182329	0.408182446	0.578534508
Au-191	0.850455747	0.755304941	0.5127671	0.735843371
Au-192	0.671033975	0.600388776	0.412775055	0.586421237
Au-193	1.103325942	0.970711897	0.628478792	0.938583356
Au-193m	1.051714947	0.928581143	0.613153136	0.90068404
Au-194	0.71893271	0.641927984	0.440492755	0.626697467
Au-195	1.522583776	1.325630808	0.790165911	1.268561342
Au-195m	1.059297071	0.934955394	0.615436253	0.906553069
Au-196	0.843136461	0.749805482	0.519025832	0.732593562
Au-196m	1.27737514	1.120420873	0.706168863	1.079613513
Au-198	0.741421578	0.662995423	0.472119499	0.650871534
Au-198m	0.953300285	0.845266312	0.581278213	0.823428592
Au-199	1.024830862	0.907072861	0.61496896	0.88173941
Au-200	0.668396888	0.599179584	0.417699611	0.586401921
Au-200m	0.733756105	0.656213954	0.462862992	0.643058396
Au-201	0.840187225	0.747013489	0.505597716	0.72781563
Au-202	0.673586974	0.603658047	0.421413797	0.590972558
Ba-124	0.723468207	0.648236562	0.456575168	0.634790987
Ba-126	0.717552456	0.643254705	0.452027191	0.629734173
Ba-127	0.715471549	0.640617039	0.452118105	0.627689405
Ba-128	0.854208398	0.766335624	0.539226301	0.748983924
Ba-129	0.737462562	0.660680047	0.46567431	0.646898907
Ba-129m	0.688642234	0.617297091	0.43239604	0.604355977
Ba-131	0.762035854	0.682343033	0.484679666	0.668647014

Ba-131m	0.846969721	0.758393828	0.547683311	0.742591881
Ba-133	0.79058997	0.708007006	0.504857281	0.694079747
Ba-133m	0.868176357	0.776816991	0.543336023	0.758877417
Ba-135m	0.835230388	0.749092813	0.530831432	0.732935146
Ba-137m	0.601809214	0.540007278	0.363334273	0.52565199
Ba-139	0.791272809	0.708323693	0.516894316	0.6951424
Ba-140	0.750100014	0.671172347	0.47326525	0.657435853
Ba-141	0.696218093	0.623761157	0.440544259	0.611280193
Ba-142	0.67339807	0.603870972	0.421839022	0.591041493
Be-10	0	0	0	0
Be-7	0.71978834	0.643893794	0.456856881	0.631682368
Bi-197	0.735979644	0.656383687	0.443508648	0.639614701
Bi-200	0.74986469	0.669166443	0.46069757	0.65359435
Bi-201	0.719794095	0.642175915	0.43235047	0.625517879
Bi-202	0.719603098	0.642939078	0.441696328	0.627967138
Bi-203	0.6964378	0.622050156	0.421139291	0.606488446
Bi-204	0.712902155	0.636942767	0.435349994	0.621747269
Bi-205	0.717354506	0.63982752	0.42990419	0.623098963
Bi-206	0.716102771	0.639608704	0.43777165	0.624513916
Bi-207	0.741447591	0.661368755	0.448232304	0.644576151
Bi-208	0.629147888	0.56283952	0.377249452	0.547863102
Bi-210	0.862753933	0.767200541	0.533914391	0.749628388
Bi-210m	0.837031529	0.745284594	0.521601356	0.72883406
Bi-211	0.820376536	0.730505035	0.509651796	0.714673296
Bi-212n	0	0	0	0
Bi-212	0.892322146	0.788559521	0.503222679	0.76274475
Bi-213	0.7643596	0.682299895	0.478396071	0.66822816
Bi-214	0.639970536	0.574039687	0.397006633	0.561334397
Bi-215	0.797883542	0.711172327	0.490302998	0.694413709
Bi-216	0.722636767	0.646441601	0.455924678	0.633592727
Bk-245	1.095785734	0.975974319	0.666639891	0.95058583
Bk-246	0.805048654	0.719812893	0.491562691	0.702451928
Bk-247	0.943228872	0.841244905	0.590259247	0.821972539
Bk-248m	1.110533596	0.989572534	0.664617692	0.962308883
Bk-249	0.885959267	0.790632451	0.554701766	0.773571037
Bk-250	0.682269496	0.611849126	0.421460108	0.597868271
Bk-251	1.19134026	1.061377231	0.717234456	1.032304985
Br-72	0.676263403	0.605705268	0.421896816	0.592832666
Br-73	0.72797406	0.650601366	0.455333914	0.636964859
Br-74	0.63291398	0.567580373	0.392729378	0.554769444
Br-74m	0.656454776	0.588311706	0.408488024	0.575459088
Br-75	0.763395563	0.681209019	0.475687899	0.666542301
Br-76	0.681209414	0.609177676	0.417799607	0.594839057
Br-76m	2.105031176	1.827426932	1.028648986	1.739368431
Br-77	1.175169846	1.030229461	0.635618236	0.991447293
Br-77m	2.329826128	2.018887897	1.124431987	1.919303438
Br-78	0.723543143	0.646899804	0.454853438	0.633755355
Br-80	0.833278568	0.739840525	0.493189408	0.719553038
Br-80m	2.261693877	1.961902713	1.093511461	1.86543518
Br-82m	2.544529321	2.201784707	1.204270052	2.089576584
Br-82	0.668999982	0.599711483	0.41811989	0.58713992
Br-83	0.709491647	0.634996609	0.448645182	0.622500407
Br-84m	0.653420399	0.585878175	0.407078247	0.573379972
Br-84	0.610450297	0.548030186	0.377272367	0.535549796
Br-85	0.656540376	0.588731798	0.408875302	0.576241212
C-10	0.699896147	0.626656274	0.441420515	0.614277476

C-11	0.712488239	0.637542578	0.451187282	0.625155152
C-14	0	0	0	0
Ca-41	0	0	0	0
Ca-45	2.457832103	2.135093064	1.195916955	2.032181362
Ca-47	0.634878909	0.569779793	0.393135482	0.556903828
Ca-49	0.568054732	0.510628046	0.348709696	0.498134121
Cd-101	0.671169214	0.601531219	0.419018838	0.588576614
Cd-102	0.741465966	0.663914319	0.464191807	0.649667402
Cd-103	0.659715207	0.591605126	0.408839364	0.578282273
Cd-104	0.860843335	0.770917283	0.530728272	0.751888014
Cd-105	0.676572952	0.606529444	0.419987706	0.593004836
Cd-107	1.111932911	0.995606957	0.665689704	0.966267988
Cd-109	1.126726577	1.008866074	0.673541099	0.978896776
Cd-111m	0.836870173	0.748776335	0.537131697	0.733837414
Cd-113	0	0	0	0
Cd-113m	0.938778815	0.840407633	0.581260671	0.819535985
Cd-115	0.720615441	0.644913527	0.455893625	0.632172199
Cd-115m	0.650862628	0.583874552	0.404580911	0.571116553
Cd-117	0.658228635	0.590265136	0.410909612	0.577574404
Cd-117m	0.627084259	0.56271198	0.38832182	0.55011874
Cd-118	0	0	0	0
Cd-119	0.636700099	0.571139926	0.39589649	0.558618259
Cd-119m	0.629775605	0.565120859	0.390134521	0.552487734
Ce-130	0.737121732	0.660535878	0.467991845	0.646996123
Ce-131	0.69324638	0.62106533	0.436368994	0.608336348
Ce-132	0.803883485	0.719991382	0.519835139	0.706058445
Ce-133	0.745488047	0.667582195	0.47323789	0.654029117
Ce-133m	0.677893612	0.607660038	0.424750258	0.594817181
Ce-134	0.86607355	0.77824946	0.544045142	0.759490831
Ce-135	0.724502687	0.649029153	0.459072228	0.636090513
Ce-137	0.883480904	0.791286776	0.545102571	0.771024583
Ce-137m	0.81481477	0.730970538	0.51841723	0.715235007
Ce-139	0.825763583	0.739986154	0.534504194	0.725098134
Ce-141	0.811200852	0.725872626	0.53216698	0.712368805
Ce-143	0.750769858	0.67250307	0.478947135	0.659370338
Ce-144	0.81842361	0.732613906	0.533699971	0.718295196
Ce-145	0.698041247	0.625692386	0.438814388	0.612795385
Cf-244	1.55632887	1.383628192	0.885150935	1.338032994
Cf-246	1.550111295	1.378203953	0.882168601	1.332863933
Cf-247	1.289485121	1.147846827	0.761388101	1.114209428
Cf-248	1.530736352	1.361123632	0.872015786	1.316495184
Cf-249	0.829460831	0.74104982	0.520573849	0.725846242
Cf-250	1.126498372	1.003947682	0.657336161	0.973902975
Cf-251	1.1459493	1.020558859	0.691920573	0.993046031
Cf-252	0.663934119	0.595239758	0.411601387	0.581866403
Cf-253	1.439715652	1.283285492	0.833214572	1.242994408
Cf-254	0.641690685	0.575586711	0.399717326	0.563000755
Cf-255	0	0	0	0
Cl-34	0.712488239	0.637542578	0.451187282	0.625155152
Cl-34m	0.634789257	0.569290018	0.395611096	0.556851224
Cl-36	0.712488239	0.637542578	0.451187282	0.625155152
Cl-38	0.597825922	0.536684418	0.367784395	0.524291209
Cl-39	0.63949828	0.573797166	0.397352945	0.5610334
Cl-40	0.592281636	0.531983098	0.364756664	0.519423303
Cm-238	1.234439516	1.097320445	0.734791133	1.065876633
Cm-239	1.041513441	0.927885885	0.6421635	0.904867764

Cm-240	1.656052786	1.46879402	0.927557924	1.418354833
Cm-241	0.95302958	0.849525116	0.579866388	0.828370425
Cm-242	1.656623581	1.469286127	0.927800173	1.418818883
Cm-243	1.158431186	1.030221307	0.692326995	1.00166935
Cm-244	1.656595704	1.469239012	0.92769625	1.418761741
Cm-245	1.268982287	1.126984262	0.748039489	1.093650882
Cm-246	1.432221405	1.27169439	0.811073033	1.229608535
Cm-247	0.752236054	0.672687833	0.479794006	0.660445917
Cm-248	0.650968828	0.583756805	0.40456194	0.570828018
Cm-249	0.730256223	0.653719161	0.458797164	0.64024721
Cm-250	0.641574304	0.5754837	0.399609215	0.562892336
Cm-251	0.784264958	0.70121496	0.489354566	0.686026076
Co-54m	0.665269681	0.596345878	0.415987759	0.583702846
Co-55	0.677530335	0.607061259	0.424822868	0.594514684
Co-56	0.629169908	0.564569286	0.389976753	0.551988392
Co-57	0.959380499	0.853996251	0.605961106	0.834782485
Co-58	0.676936248	0.606569324	0.423766021	0.594255976
Co-58m	1.030379031	0.923309405	0.620548829	0.896089008
Co-60	0.580960584	0.522402139	0.351228515	0.508035119
Co-60m	0.670023424	0.600883274	0.422629673	0.587844126
Co-61	0.729264152	0.65235969	0.470831034	0.640078005
Co-62	0.623517124	0.559786286	0.385422529	0.546935434
Co-62m	0.628148841	0.563881227	0.388495309	0.551013196
Cr-48	0.774362776	0.692322536	0.503163166	0.6802285
Cr-49	0.719774605	0.644013767	0.457871736	0.631580657
Cr-51	0.760364747	0.680141744	0.490119618	0.668296576
Cr-55	0.613772964	0.550877316	0.378484822	0.538285784
Cr-56	0.869567386	0.778530622	0.55312099	0.760141293
Cs-121	0.714448026	0.639453429	0.45265903	0.626932502
Cs-121m	0.72090272	0.645285834	0.457603613	0.632682626
Cs-123	0.71512546	0.640247413	0.452046093	0.627439083
Cs-124	0.708283085	0.633927738	0.448087387	0.621523994
Cs-125	0.715662104	0.640798007	0.451570443	0.627829429
Cs-126	0.711850547	0.637122069	0.450479073	0.624694589
Cs-127	0.758561937	0.679190752	0.480878053	0.665660409
Cs-128	0.715792131	0.64062582	0.452833802	0.628042235
Cs-129	0.79192409	0.709403023	0.500956645	0.694722912
Cs-130m	0.85810664	0.769864975	0.543884795	0.751985408
Cs-130	0.724568043	0.648650832	0.457497849	0.635568586
Cs-131	0.917364829	0.82393325	0.568135679	0.802509176
Cs-132	0.710345671	0.636724119	0.445552547	0.623393173
Cs-134	0.683583223	0.612536675	0.428884918	0.600081984
Cs-134m	0.950070752	0.847789212	0.582531387	0.825214537
Cs-135	0	0	0	0
Cs-135m	0.670503999	0.601001239	0.418724549	0.588660708
Cs-136	0.668379266	0.599328156	0.417882995	0.586683673
Cs-137	0.673333588	0.599841323	0.414774205	0.588047517
Cs-138m	0.686272576	0.615345816	0.429629985	0.602016655
Cs-138	0.630259036	0.565486804	0.390647426	0.552868338
Cs-139	0.61619304	0.553127388	0.380702479	0.540487889
Cs-140	0.623775592	0.559749933	0.386654629	0.547219516
Cu-57	0.705260932	0.631246232	0.445792288	0.618807984
Cu-59	0.696011555	0.623167268	0.438884879	0.610717438
Cu-60	0.6429702	0.576588267	0.400105193	0.564030371
Cu-61	0.708029281	0.633749141	0.448007535	0.621333775
Cu-62	0.711983336	0.637101812	0.450811587	0.624711723

Cu-64	0.709845995	0.635232433	0.449217061	0.622830193
Cu-66	0.648681022	0.582148242	0.40281774	0.56919487
Cu-67	0.799506394	0.715114496	0.526637262	0.70249531
Cu-69	0.657337132	0.589562406	0.409410853	0.576854273
Dy-148	0.700135573	0.627316406	0.441344219	0.614536635
Dy-149	0.655275587	0.587632158	0.408774148	0.574939285
Dy-150	0.745774371	0.667264154	0.476764125	0.655039751
Dy-151	0.670451674	0.601033913	0.419755721	0.588338482
Dy-152	0.78206502	0.699856056	0.50711611	0.687112701
Dy-153	0.696037135	0.623774492	0.439720578	0.610834276
Dy-154	0	0	0	0
Dy-155	0.701421726	0.628608568	0.444243674	0.615715398
Dy-157	0.761974546	0.681838964	0.490283935	0.66942732
Dy-159	0.779438259	0.698768833	0.49868179	0.683344278
Dy-165m	0.753491075	0.674319757	0.484079877	0.661059193
Dy-165	0.730457696	0.654103773	0.466756627	0.641127881
Dy-166	0.774507371	0.693632671	0.500762465	0.679332728
Dy-167	0.725663888	0.649663284	0.462466988	0.637194131
Dy-168	0.734017711	0.656910569	0.468972929	0.644434389
Er-154	0.819674041	0.734511011	0.515163633	0.717266162
Er-156	0.798248825	0.715712967	0.510462662	0.700204565
Er-159	0.680987125	0.6103451	0.42814071	0.597668707
Er-161	0.674359368	0.604530795	0.422394787	0.591893953
Er-163	0.770367165	0.690304115	0.495643389	0.675628609
Er-165	0.772085903	0.69184185	0.496949963	0.6771274
Er-167m	0.795706246	0.71196513	0.520611153	0.699276551
Er-169	0.792136972	0.708325176	0.519168561	0.694773554
Er-171	0.765292054	0.684550389	0.494831415	0.672334072
Er-172	0.720294752	0.644850746	0.457671911	0.632425783
Er-173	0.707635889	0.633922323	0.449792623	0.621333335
Es-249	0.880917359	0.786893745	0.545708701	0.768866172
Es-250	0.905845189	0.809257676	0.55246951	0.789303909
Es-250m	0.798719772	0.714618404	0.489999787	0.697293649
Es-251	1.259657091	1.121770179	0.749767147	1.089786992
Es-253	1.46844132	1.306691437	0.84329609	1.26497956
Es-254	1.538961672	1.36858341	0.878073711	1.324011998
Es-254m	0.75520524	0.676229292	0.468619799	0.661308595
Es-255	0.642110967	0.575957409	0.399991831	0.563367217
Es-256	1.3724394	1.224748406	0.800278684	1.186919321
Eu-142	0.69804032	0.624885334	0.440485367	0.612477525
Eu-142m	0.681035702	0.610250433	0.427204066	0.597673773
Eu-143	0.687746927	0.615910058	0.432854361	0.603389442
Eu-144	0.697342587	0.624257073	0.440012278	0.611828905
Eu-145	0.653574017	0.586184229	0.406819162	0.573501804
Eu-146	0.668094357	0.598964146	0.417613448	0.586385396
Eu-147	0.708495871	0.635068352	0.447892605	0.621828311
Eu-148	0.687067213	0.615647925	0.431753952	0.60299373
Eu-149	0.796340474	0.713860292	0.506275085	0.69837718
Eu-150	0.710140049	0.635930298	0.449584876	0.6234887
Eu-150m	0.722178862	0.646749482	0.458262117	0.634059105
Eu-152	0.670510576	0.601264405	0.419761483	0.588417202
Eu-152m	0.674884416	0.605151885	0.422155071	0.592319867
Eu-152n	0.818116574	0.731524932	0.533487517	0.716475805
Eu-154	0.661554949	0.59330623	0.413186104	0.580528072
Eu-154m	0.807823418	0.723102772	0.523806377	0.70842935
Eu-155	0.797706314	0.71343601	0.523565387	0.699455319

Eu-156	0.632528636	0.567596506	0.392128287	0.554927288
Eu-157	0.736851769	0.659591281	0.46993771	0.646958669
Eu-158	0.649171549	0.582383631	0.403691958	0.569650205
Eu-159	0.715608709	0.641268501	0.45248025	0.627803818
F-17	0.712474841	0.637530913	0.451176989	0.625143472
F-18	0.712488239	0.637542578	0.451187282	0.625155152
Fe-52	0.730736353	0.653837738	0.467108665	0.641411877
Fe-53	0.714830798	0.639639697	0.45319998	0.627336294
Fe-53m	0.644662489	0.578387348	0.400414845	0.565661681
Fe-55	0.815743526	0.728505042	0.541438763	0.71592142
Fe-59	0.638379333	0.573009845	0.395575261	0.560025083
Fe-60	0	0	0	0
Fe-61	0.642911335	0.576899042	0.399506038	0.564086569
Fe-62	0.713452304	0.638371007	0.451935837	0.626006479
Fm-251	1.013000993	0.90414123	0.62041519	0.881369666
Fm-252	1.442294909	1.284972858	0.832188895	1.244233853
Fm-253	1.273101246	1.134887531	0.755237728	1.102113751
Fm-254	1.166845329	1.040908507	0.683464924	1.009869394
Fm-255	1.514857385	1.348274123	0.868593641	1.304949982
Fm-256	0.642628272	0.576413919	0.40032299	0.563817023
Fm-257	1.1026351	0.983395852	0.666619429	0.957085647
Fr-212	0.776520981	0.692292408	0.466243856	0.673963505
Fr-219	0.808149042	0.720564225	0.503734635	0.705039966
Fr-220	1.808223464	1.579113363	0.93353267	1.511208112
Fr-221	0.962734452	0.855056265	0.589304466	0.833587011
Fr-222	1.064381464	0.944326417	0.630559474	0.917388903
Fr-223	1.371515358	1.209743713	0.763440568	1.167036977
Fr-224	0.748391864	0.668724683	0.458979964	0.652785181
Fr-227	0.857102053	0.763283202	0.522013525	0.744240848
Ga-64	0.6443855	0.577838696	0.401755812	0.565324447
Ga-65	0.712306913	0.637457908	0.451882975	0.625031448
Ga-66	0.626793931	0.562362165	0.389664486	0.549818683
Ga-67	0.77920745	0.696869619	0.508835866	0.684499293
Ga-68	0.709806887	0.635210492	0.449167505	0.622801163
Ga-70	0.660038953	0.592146058	0.411750787	0.579156833
Ga-72	0.631890928	0.56687462	0.391884648	0.554447927
Ga-73	0.813302264	0.724480293	0.505387076	0.708494527
Ga-74	0.625632488	0.561347088	0.388003037	0.548840812
Gd-142	0.69354561	0.621140435	0.437316413	0.608570783
Gd-143m	0.688987809	0.617220201	0.434065573	0.604671046
Gd-144	0.676797296	0.606329935	0.425208878	0.59378244
Gd-145m	0.690037435	0.6182781	0.433307025	0.605827371
Gd-145	0.625525981	0.561186674	0.387758025	0.548678347
Gd-146	0.802967505	0.718718426	0.522430348	0.704418461
Gd-147	0.697574907	0.625061829	0.440298344	0.612449429
Gd-148	0	0	0	0
Gd-149	0.738456192	0.661230653	0.471861473	0.64845094
Gd-150	0	0	0	0
Gd-151	0.808382643	0.72443048	0.517004187	0.708841348
Gd-152	0	0	0	0
Gd-153	0.798408305	0.715126234	0.515758101	0.699992845
Gd-159	0.756600993	0.677146016	0.48525495	0.664519386
Gd-162	0.735323828	0.657750201	0.468968856	0.64578539
Ge-66	0.75809022	0.676606573	0.473325615	0.662088216
Ge-67	0.70564401	0.631646125	0.446714575	0.619128227
Ge-68	3.589358037	3.046481548	1.459560664	2.847763268

Ge-69	0.685221102	0.613275737	0.423867096	0.599475601
Ge-71	3.589358041	3.046481551	1.459560664	2.847763271
Ge-75	0.783919001	0.700838311	0.506500862	0.688205152
Ge-77	0.712136939	0.637517431	0.45025923	0.624730978
Ge-78	0.776648018	0.694586436	0.502729598	0.682385783
H-3	0	0	0	0
Hf-167	0.736849197	0.658980907	0.468821404	0.646332112
Hf-169	0.72967994	0.652415208	0.461800102	0.639512142
Hf-170	0.75902707	0.677979909	0.478791924	0.663594498
Hf-172	0.946453142	0.84036449	0.571892932	0.81652769
Hf-173	0.789378862	0.704971238	0.508059048	0.691229824
Hf-174	0	0	0	0
Hf-175	0.77367296	0.691158518	0.49329241	0.677916848
Hf-177m	0.773116875	0.691123468	0.497017511	0.67829015
Hf-178m	0.745402173	0.666620529	0.475727374	0.653942674
Hf-179m	0.767494809	0.68584235	0.491212225	0.672869733
Hf-180m	0.759576737	0.679026822	0.486195926	0.666372577
Hf-181	0.742060084	0.663348336	0.472586917	0.650608562
Hf-182	0.783507043	0.700586335	0.507706972	0.688101817
Hf-182m	0.732672066	0.655386505	0.464685522	0.642405064
Hf-183	0.690620218	0.618497741	0.434143859	0.606076475
Hf-184	0.848912937	0.755565317	0.530665524	0.738616679
Hg-190	1.146680171	1.009240325	0.657587999	0.976061796
Hg-191m	0.741561607	0.662138074	0.458207784	0.647053168
Hg-192	1.0525528	0.928974817	0.613566125	0.900835246
Hg-193	0.771820918	0.687276385	0.46329964	0.669286089
Hg-193m	0.726208656	0.648561794	0.445562035	0.633340532
Hg-194	2.722576939	2.348737827	1.259231686	2.223720831
Hg-195	1.073358934	0.944817718	0.598188703	0.911939898
Hg-195m	1.160578479	1.02086234	0.647137773	0.985435419
Hg-197	1.51482961	1.321416974	0.795287351	1.266270957
Hg-197m	1.316048161	1.154555871	0.726869039	1.112459132
Hg-199m	1.061620249	0.937675302	0.62201434	0.909584744
Hg-203	0.847891797	0.754775209	0.529520101	0.73822853
Hg-205	0.966580104	0.855952362	0.58230682	0.832721044
Hg-206	0.853623857	0.758822218	0.52357714	0.740844457
Hg-207	0.651326893	0.583585806	0.401769475	0.570297965
Ho-150	0.692719776	0.620391356	0.435922773	0.60798591
Ho-153	0.710467561	0.636137455	0.450422234	0.623647433
Ho-153m	0.71819047	0.642865375	0.456334251	0.630379932
Ho-154m	0.711411655	0.636854352	0.45082307	0.624560434
Ho-154	0.696332739	0.623602305	0.43956133	0.61119724
Ho-155	0.709393304	0.635285035	0.450204447	0.622615344
Ho-156	0.676399276	0.606151468	0.425447917	0.593605078
Ho-157	0.730752591	0.654322148	0.465370758	0.641355046
Ho-159	0.759353074	0.679703823	0.490056386	0.666616939
Ho-160	0.677098269	0.607008707	0.424237938	0.594343264
Ho-161	0.853343639	0.764696135	0.536395854	0.746110085
Ho-162	0.705476285	0.632304086	0.446305417	0.618787595
Ho-162m	0.683757561	0.613136686	0.430618625	0.600069904
Ho-163	0	0	0	0
Ho-164	0.776016833	0.695334227	0.499383465	0.680479731
Ho-164m	0.779717511	0.698917963	0.500971366	0.683880702
Ho-166	0.684117827	0.613250983	0.433781324	0.600099395
Ho-166m	0.698233526	0.625497173	0.441094695	0.613126497
Ho-167	0.755908555	0.67620453	0.4864032	0.664247748

Ho-168	0.674377976	0.604426367	0.422235017	0.592051138
Ho-168m	0.772063763	0.69182014	0.496961694	0.677109838
Ho-170	0.674318708	0.604588101	0.422886229	0.591909461
I-118m	0.686826808	0.615403485	0.431489232	0.602753391
I-118	0.691536968	0.619360947	0.435310091	0.606809363
I-119	0.735772412	0.658574652	0.467542319	0.645679761
I-120	0.656901347	0.588856036	0.410382233	0.576247058
I-120m	0.678595142	0.608079436	0.425662359	0.595425575
I-121	0.783231023	0.701325347	0.498580987	0.686938013
I-122	0.712072082	0.637332521	0.450018031	0.624721489
I-123	0.856947415	0.767595305	0.546103108	0.750604349
I-124	0.687055625	0.615755461	0.429726664	0.602628367
I-125	0.951537172	0.853865569	0.582825305	0.830368425
I-126	0.728918406	0.652893867	0.45918673	0.639645149
I-128	0.740999391	0.66312412	0.469159483	0.65014604
I-129	0.911647249	0.8212221	0.56609842	0.797890313
I-130m	0.731126785	0.654960642	0.45907838	0.641010739
I-130	0.690980823	0.619008466	0.43460113	0.60657145
I-131	0.696057743	0.621161172	0.43146921	0.608450499
I-132	0.674097873	0.604219041	0.421930725	0.591737327
I-132m	0.725167527	0.649791609	0.45483257	0.636070952
I-133	0.698255705	0.625213328	0.440331522	0.612705011
I-134m	0.800786364	0.717209219	0.510336281	0.702596654
I-134	0.662022794	0.593581232	0.412942016	0.581061302
I-135	0.633721955	0.568679617	0.392665968	0.555934072
In-103	0.670958056	0.601297649	0.420677135	0.588719653
In-105	0.68959778	0.617749266	0.433369631	0.604955943
In-106	0.682766221	0.611820803	0.428068815	0.599170043
In-106m	0.66243043	0.593707675	0.414431846	0.581187948
In-107	0.683453573	0.612504347	0.427362018	0.599331011
In-108	0.672250176	0.602732749	0.419517203	0.589813572
In-108m	0.646610671	0.579910797	0.402529777	0.567150975
In-109	0.751784053	0.673500825	0.47156592	0.658741575
In-109m	0.694807055	0.622599088	0.43669367	0.609941313
In-110	0.683432734	0.612677836	0.426374629	0.599639195
In-110m	0.693967638	0.62164504	0.435709404	0.608825262
In-111	0.85746483	0.767317583	0.547908973	0.751294612
In-111m	0.715504982	0.640474413	0.451698978	0.627641694
In-112	0.748919034	0.67036517	0.469823324	0.656177053
In-112m	0.991629517	0.888215452	0.606799886	0.863874461
In-113m	0.774296128	0.692755747	0.491087693	0.679322026
In-114	0.724300934	0.649504247	0.445669556	0.633769861
In-114m	0.856243874	0.766865091	0.532954775	0.7485065
In-115	0	0	0	0
In-115m	0.816410105	0.730602194	0.516101777	0.715497974
In-116m	0.636148853	0.570859986	0.394388679	0.558078892
In-117	0.728346866	0.651977707	0.463858216	0.639194257
In-117m	0.833915272	0.746288094	0.530180144	0.730698898
In-118m	0.647498198	0.58099069	0.402302728	0.56812634
In-118	0.637414679	0.572075116	0.394986731	0.559148928
In-119	0.686389506	0.615127976	0.428740322	0.602416089
In-119m	0.711945378	0.638515714	0.440271581	0.623513039
In-121	0.663359946	0.594894602	0.413637903	0.582262182
In-121m	0.827671883	0.742069355	0.509865664	0.722943901
Ir-180	0.738739547	0.659679731	0.45904426	0.645224619
Ir-182	0.745212949	0.665048539	0.461172162	0.650037406

Ir-183	0.743767469	0.662378411	0.447316614	0.645199883
Ir-184	0.723441803	0.645877313	0.444170066	0.630682984
Ir-185	0.8069203	0.715177395	0.467993656	0.693513942
Ir-186	0.730483693	0.651871538	0.44826388	0.636510594
Ir-186m	0.704351224	0.62915469	0.43063298	0.614143194
Ir-187	0.927609146	0.818634059	0.529368842	0.792298034
Ir-188	0.660997333	0.59118631	0.402726829	0.576753662
Ir-189	1.481377754	1.28641061	0.756347433	1.228773817
Ir-190	0.759837021	0.677994481	0.472258336	0.663086403
Ir-190m	3.118936285	2.668624676	1.354141172	2.510534375
Ir-190n	1.426584442	1.240819383	0.739061525	1.186752498
Ir-191m	1.577410422	1.369752578	0.80423137	1.308195347
Ir-192	0.75434738	0.674279229	0.479961614	0.661456622
Ir-192m	3.089746549	2.644675732	1.345701572	2.488759731
Ir-192n	3.067056601	2.625563842	1.337628456	2.471070415
Ir-193m	3.021548515	2.586810783	1.319985415	2.434928036
Ir-194	0.724393492	0.648262842	0.459058926	0.635598717
Ir-194m	0.726503458	0.649869433	0.458664617	0.63701816
Ir-195	1.460927583	1.273695632	0.768007317	1.220455859
Ir-195m	0.84605685	0.751892155	0.514559778	0.733397983
Ir-196	0.705277045	0.631357163	0.44439999	0.618881345
Ir-196m	0.735410317	0.657370781	0.462345321	0.644122245
K-38	0.635490247	0.569782818	0.395515357	0.557434
K-40	0.620596926	0.556987636	0.383025727	0.54428323
K-42	0.617133929	0.553862519	0.380680049	0.541242037
K-43	0.715765311	0.640861442	0.454045449	0.628597761
K-44	0.612148221	0.549621586	0.378009187	0.536960397
K-45	0.622912387	0.558947397	0.386586064	0.546442179
K-46	0.599435359	0.538455331	0.369493512	0.525751321
Kr-74	0.791504138	0.705463044	0.48909901	0.689409742
Kr-75	0.751682617	0.671196718	0.469399083	0.656765971
Kr-76	1.124452198	0.990454709	0.632743618	0.957458688
Kr-77	0.768125926	0.685473371	0.48037131	0.67076398
Kr-79	1.190196894	1.045900453	0.6512241	1.008004753
Kr-81	2.603206274	2.251927544	1.229192422	2.136648615
Kr-81m	1.097757536	0.971417319	0.648848073	0.943149936
Kr-83m	2.360333807	2.055507137	1.169001881	1.960057224
Kr-85	0.713864276	0.63874183	0.451638007	0.626250353
Kr-85m	0.887567643	0.790583093	0.560425497	0.773263645
Kr-87	0.642905778	0.57644729	0.401196085	0.564182682
Kr-88	0.621735332	0.557675252	0.382448983	0.544690219
Kr-89	0.632490459	0.567446569	0.392853114	0.554847071
La-128	0.690032834	0.618125986	0.434581937	0.605582331
La-129	0.724735229	0.648725552	0.459997647	0.636052247
La-130	0.689268077	0.61740321	0.433977163	0.604914004
La-131	0.739110167	0.661706477	0.4696778	0.648718637
La-132	0.673679705	0.603653263	0.422396338	0.591079123
La-132m	0.718833128	0.643842856	0.4554383	0.630935759
La-133	0.784320498	0.70234073	0.490315992	0.686620493
La-134	0.713939308	0.639052265	0.451390369	0.626401481
La-135	0.861340133	0.773686903	0.539325357	0.75502524
La-136	0.72637512	0.650386291	0.458837035	0.637264765
La-137	0.883953392	0.79434676	0.552756377	0.774730945
La-138	0.641142613	0.575280748	0.3971513	0.562436799
La-140	0.638002066	0.572185323	0.396259521	0.559722612
La-141	0.623072602	0.559271403	0.384808381	0.546483725

La-142	0.611668886	0.549045301	0.37815424	0.536563731
La-143	0.631987391	0.567041507	0.391935164	0.554454793
Lu-165	0.689541372	0.617622836	0.435133184	0.604974107
Lu-167	0.653203532	0.58571916	0.407261592	0.572931625
Lu-169m	3.629056365	3.078252838	1.468000204	2.876020225
Lu-169	0.656072626	0.58837971	0.409343625	0.575519088
Lu-170	0.617642138	0.554393856	0.381960163	0.541703263
Lu-171m	3.231403292	2.745901967	1.33401251	2.570005966
Lu-171	0.715609056	0.640956096	0.448278134	0.627455805
Lu-172	0.664679601	0.59604473	0.415368622	0.583251499
Lu-172m	3.459599286	2.941954822	1.429404385	2.754254352
Lu-173	0.777970774	0.695755192	0.502181375	0.682003779
Lu-174	0.709535637	0.635481965	0.448329862	0.621458809
Lu-174m	0.935025799	0.827128394	0.553007987	0.802094651
Lu-176	0.79049285	0.706355301	0.509456697	0.693261124
Lu-176m	0.98988277	0.873728371	0.585982307	0.846740609
Lu-177	0.825078408	0.736366451	0.533569953	0.722060279
Lu-177m	0.783787997	0.700383169	0.504859578	0.687331907
Lu-178	0.657704228	0.589222316	0.405530506	0.575364214
Lu-178m	0.765169832	0.684000848	0.491302366	0.671392045
Lu-179	0.788866208	0.705620107	0.513736538	0.692965638
Lu-180	0.663261616	0.59467322	0.413909549	0.581751681
Lu-181	0.725026595	0.6484905	0.455566658	0.635037046
Mg-27	0.661970875	0.59360074	0.412509985	0.581062824
Mg-28	0.660605284	0.592629391	0.410772602	0.579547189
Mn-50m	0.659465736	0.591271184	0.411437418	0.578631162
Mn-51	0.712157826	0.637253982	0.450940577	0.624865648
Mn-52	0.652221861	0.58491398	0.405878949	0.572308942
Mn-52m	0.662042761	0.593345118	0.413731587	0.580762365
Mn-53	0	0	0	0
Mn-54	0.667947623	0.598742554	0.4168618	0.586400365
Mn-56	0.634468561	0.569119337	0.393401626	0.556747574
Mn-57	0.901496418	0.803114789	0.543377493	0.782410928
Mn-58m	0.644212996	0.577826401	0.400219084	0.565268645
Mo-101	0.655773486	0.588080553	0.408605596	0.575341838
Mo-102	0.820822995	0.734168531	0.534919587	0.720791307
Mo-89	0.702850227	0.629160195	0.443499421	0.61664239
Mo-90	0.852865947	0.762554513	0.531174938	0.745593918
Mo-91m	0.676072341	0.605856856	0.422844316	0.593086087
Mo-91	0.716481289	0.641111466	0.452982272	0.628517398
Mo-93	1.571661159	1.401473434	0.910217936	1.358577084
Mo-93m	0.665630309	0.596859555	0.414007226	0.583849719
Mo-99	0.721030877	0.645900642	0.452817363	0.632658355
N-13	0.712488239	0.637542578	0.451187282	0.625155152
N-16	0.531991945	0.479031534	0.327238908	0.466483773
Na-22	0.667403148	0.598200087	0.417456077	0.585495816
Na-24	0.594413073	0.533850737	0.365794495	0.521260985
Nb-87	0.782765531	0.699823936	0.492715253	0.685369157
Nb-88m	0.673390818	0.60354065	0.421511043	0.590858087
Nb-88	0.693896871	0.621726481	0.433412249	0.608435557
Nb-89	0.690337296	0.618221159	0.431194367	0.605056125
Nb-89m	0.725675329	0.649239887	0.45751512	0.63627994
Nb-90	0.651331117	0.584052216	0.402475948	0.570707486
Nb-91	1.668774882	1.483646962	0.948998486	1.435684922
Nb-91m	1.380212299	1.231390833	0.804285281	1.194568858
Nb-92	0.741036579	0.663414384	0.457624201	0.648459903

Nb-92m	0.76287762	0.682891664	0.465337011	0.666525668
Nb-93m	1.571641566	1.401456142	0.910207718	1.358560443
Nb-94m	1.518818997	1.354542678	0.881340639	1.313419524
Nb-94	0.673266449	0.603505284	0.420914454	0.591078742
Nb-95	0.6763002	0.606093206	0.423120134	0.593804638
Nb-95m	1.206341113	1.076770207	0.725867397	1.048193004
Nb-96	0.671680544	0.602100475	0.420083922	0.589539417
Nb-97	0.689585522	0.617954393	0.433365062	0.6054356
Nb-98m	0.657950085	0.589949689	0.410061048	0.577471343
Nb-99	1.012231857	0.904456571	0.636821623	0.883756383
Nb-99m	0.633975434	0.568782939	0.392635829	0.555937808
Nd-134	0.7464687	0.668347874	0.477620168	0.655338028
Nd-135	0.723166107	0.647337329	0.459408367	0.63470545
Nd-136	0.753674057	0.675410718	0.479059753	0.661309031
Nd-137	0.690293991	0.618569214	0.433935261	0.605772795
Nd-138	0.82436683	0.740087575	0.522366529	0.7233641
Nd-139	0.712483032	0.638190614	0.449556761	0.625197389
Nd-139m	0.677617259	0.60756534	0.424174053	0.594752343
Nd-140	0.837598359	0.752539516	0.528499216	0.734732026
Nd-141	0.769748645	0.690826039	0.484819202	0.675265185
Nd-141m	0.678323836	0.607913396	0.424591968	0.595585115
Nd-144	0	0	0	0
Nd-147	0.748575089	0.670350775	0.47815506	0.656821307
Nd-149	0.754340076	0.675141572	0.485282333	0.66252124
Nd-151	0.683362743	0.612496873	0.430409496	0.599784108
Nd-152	0.812283566	0.726392349	0.519041025	0.712383443
Ne-19	0.712487449	0.637541896	0.451186883	0.625154455
Ne-24	0.714003526	0.63887085	0.45241817	0.626656896
Ni-56	0.688738772	0.617033251	0.434211597	0.604697931
Ni-57	0.645265827	0.57864367	0.401557457	0.566006964
Ni-59	0.712488239	0.637542578	0.451187282	0.625155152
Ni-63	0	0	0	0
Ni-65	0.631206348	0.566448593	0.390738743	0.553694617
Ni-66	0	0	0	0
Np-232	0.806535624	0.720243241	0.493645941	0.703176533
Np-233	1.290507304	1.143514953	0.751123836	1.108122908
Np-234	0.741182756	0.662607846	0.448248311	0.64579625
Np-235	1.817423374	1.604685065	0.989077738	1.545106011
Np-236	1.426791635	1.264342258	0.816275331	1.223288885
Np-236m	1.31580679	1.166083964	0.760762455	1.129346022
Np-237	1.590847872	1.40621203	0.882149937	1.35610493
Np-238	0.741426564	0.663738369	0.451815465	0.647531475
Np-239	1.121749131	0.99791403	0.675490374	0.970998229
Np-240	0.810774139	0.724594299	0.495201782	0.707075521
Np-240m	0.816095364	0.729150694	0.497637802	0.711486345
Np-241	1.205073008	1.070835889	0.71461331	1.039965624
Np-242	0.67237587	0.602618488	0.413981112	0.588832496
Np-242m	0.818921605	0.731831066	0.497837175	0.713914657
O-14	0.631985832	0.566702012	0.393156194	0.554342448
O-15	0.712488239	0.637542578	0.451187282	0.625155152
O-19	0.662700742	0.594330243	0.416008458	0.581566598
Os-180	1.25536406	1.097081768	0.665604761	1.052457014
Os-181	0.734425947	0.654763442	0.445132415	0.638341682
Os-182	0.88608118	0.784387156	0.525374726	0.762354444
Os-183	0.863112846	0.765030436	0.516240796	0.744584472
Os-183m	0.701176793	0.626326168	0.424206781	0.610316304

Os-185	0.756252049	0.673970306	0.459429787	0.657415831
Os-186	0	0	0	0
Os-189m	3.31503318	2.826169799	1.398223512	2.651169956
Os-190m	0.755923466	0.674809385	0.471813099	0.660384621
Os-191	1.516071837	1.318043817	0.78227071	1.260313962
Os-191m	2.393049967	2.051995301	1.075923638	1.93595234
Os-193	0.981824495	0.866227019	0.567690942	0.839580043
Os-194	2.527197356	2.171644562	1.141585081	2.050287886
Os-196	0.855357072	0.759801028	0.522399607	0.741158626
P-30	0.712332324	0.637405391	0.451074669	0.625018015
P-32	0	0	0	0
P-33	0	0	0	0
Pa-227	1.6210334	1.428008229	0.887086667	1.375174462
Pa-228	0.815650766	0.727470604	0.491666341	0.708871013
Pa-229	1.449506802	1.279700827	0.815948482	1.235600898
Pa-230	0.849370105	0.75706904	0.509469	0.737198998
Pa-231	1.606245746	1.415133724	0.873150384	1.362313142
Pa-232	0.762087354	0.681395925	0.466550851	0.665321121
Pa-233	1.075179177	0.955500213	0.641810225	0.929566741
Pa-234	0.78681899	0.703011752	0.480088468	0.686038406
Pa-234m	0.805369887	0.719889038	0.492212758	0.7032066
Pa-235	2.297791382	2.004937681	1.153620794	1.91462456
Pa-236	0.716659595	0.641320935	0.438638848	0.626150471
Pa-237	0.684137639	0.612901074	0.427650548	0.600208934
Pb-194	0.806408712	0.716170069	0.475926512	0.695988322
Pb-195m	0.82158762	0.730046212	0.490998413	0.710909101
Pb-196	0.995617158	0.878186156	0.571598428	0.850506293
Pb-197	0.734368137	0.654669373	0.442425965	0.637968461
Pb-197m	0.852748293	0.756631898	0.505360715	0.735932692
Pb-198	1.0300104	0.90767697	0.588234325	0.878563745
Pb-199	0.775408215	0.689699787	0.461639185	0.671099884
Pb-200	1.391042417	1.213979317	0.737347631	1.164528445
Pb-201	0.860341708	0.763021931	0.509338747	0.741930859
Pb-201m	0.814848547	0.724576326	0.487500804	0.705448559
Pb-202	3.327406729	2.835602426	1.398966669	2.659147465
Pb-202m	0.709613895	0.634678391	0.439550335	0.62076264
Pb-203	1.094746023	0.963138579	0.621427747	0.931365825
Pb-204m	0.683477214	0.612265201	0.426312635	0.599395122
Pb-205	3.326781234	2.835097633	1.398816979	2.658694883
Pb-209	0	0	0	0
Pb-210	2.517556776	2.175836889	1.182801136	2.062999089
Pb-211	0.721385959	0.644987012	0.449329112	0.631433333
Pb-212	1.05036433	0.92786047	0.616259339	0.90026226
Pb-214	0.903251194	0.801580247	0.545041138	0.781152374
Pd-100	1.092249248	0.977416911	0.666575325	0.951170429
Pd-101	0.899442097	0.805349441	0.551822375	0.785481163
Pd-103	1.248773883	1.117816451	0.741946254	1.08481692
Pd-107	0	0	0	0
Pd-109m	0.904278639	0.809182861	0.574852322	0.7915835
Pd-109	1.108058662	0.992110764	0.664752411	0.963023792
Pd-111	0.679738368	0.609229464	0.425117651	0.596326642
Pd-112	1.398583733	1.251299119	0.82713657	1.214992183
Pd-114	0.805554854	0.720386027	0.522956021	0.707228328
Pd-96	0.717561231	0.642747537	0.449340389	0.629164597
Pd-97	0.675521753	0.605367362	0.422733388	0.592563656
Pd-98	0.843686558	0.755306031	0.524197963	0.737743271

Pd-99	0.716509838	0.641714737	0.449994854	0.62822337
Pm-136	0.700346812	0.627151235	0.441969835	0.614795453
Pm-137m	0.714036303	0.639337535	0.452958178	0.626716904
Pm-139	0.707551534	0.633352965	0.447386372	0.620884082
Pm-140m	0.682782697	0.611811876	0.428530218	0.599284098
Pm-140	0.706426854	0.632291354	0.446556921	0.619846843
Pm-141	0.696779262	0.62400607	0.439046761	0.611336148
Pm-142	0.708056163	0.633727288	0.447728131	0.621248062
Pm-143	0.70434223	0.631499242	0.441958503	0.618307407
Pm-144	0.699177828	0.626422376	0.440202198	0.613790221
Pm-145	0.822878832	0.738989185	0.520823593	0.721752281
Pm-146	0.705135104	0.63152608	0.444636328	0.619042513
Pm-147	0.812183204	0.726450049	0.531188713	0.712442561
Pm-148	0.649133508	0.582131418	0.403880279	0.569494649
Pm-148m	0.693999861	0.62171937	0.437026888	0.609194764
Pm-149	0.752547228	0.673456513	0.48355699	0.661186822
Pm-150	0.659283982	0.591167529	0.412000403	0.578632954
Pm-151	0.74301799	0.665101092	0.475789253	0.652602724
Pm-152m	0.677885665	0.607693995	0.426481	0.595001674
Pm-152	0.665947058	0.597108754	0.41695614	0.584409085
Pm-153	0.807449495	0.722768941	0.523929103	0.708501026
Pm-154	0.625217256	0.561093835	0.387068677	0.548477562
Pm-154m	0.656700498	0.588880479	0.410459007	0.576243627
Po-203	0.744418725	0.663903199	0.448182409	0.646824441
Po-204	0.896524277	0.794291514	0.52066325	0.770460201
Po-205	0.737083641	0.657503189	0.444097771	0.640749912
Po-206	0.853847693	0.757988288	0.502691436	0.736541079
Po-207	0.751687182	0.670290553	0.452719836	0.653105285
Po-208	0.929537148	0.822796971	0.539635406	0.798171884
Po-209	0.826457171	0.734647585	0.493938892	0.715064663
Po-210	0.672988143	0.603114988	0.42018758	0.590753419
Po-211	0.681199267	0.610352864	0.425973487	0.597615769
Po-212m	0.602492549	0.540821112	0.371993561	0.528338859
Po-212	0	0	0	0
Po-213	0.679468533	0.608722477	0.423918725	0.596180667
Po-214	0.67366998	0.60371249	0.42067851	0.591349706
Po-215	0.738933128	0.660550778	0.468477649	0.648063835
Po-216	0.672767626	0.602921516	0.42002466	0.59055851
Po-218	0	0	0	0
Pr-134	0.695169654	0.622682797	0.438431658	0.610237347
Pr-134m	0.680256067	0.609338197	0.427670011	0.596954473
Pr-135	0.719097766	0.643878831	0.455631389	0.631094204
Pr-136	0.67984303	0.609074253	0.426933601	0.59647875
Pr-137	0.717888557	0.643023383	0.45296213	0.629887142
Pr-138	0.712362576	0.637549996	0.45071915	0.625047603
Pr-138m	0.680488914	0.610006652	0.426623881	0.597326902
Pr-139	0.754078329	0.676108969	0.475391548	0.661541281
Pr-140	0.718863111	0.643447867	0.454914144	0.630733077
Pr-142	0.614124034	0.551160916	0.378595047	0.538592169
Pr-142m	0	0	0	0
Pr-143	0.679182995	0.608664358	0.425351316	0.596352311
Pr-144	0.62917161	0.5644529	0.390166694	0.552045196
Pr-144m	0.826346286	0.742355748	0.521121476	0.724879089
Pr-145	0.673791594	0.604187267	0.421290929	0.591412112
Pr-146	0.650696685	0.583381022	0.405703146	0.570930488
Pr-147	0.708490145	0.635044155	0.447259008	0.621818665

Pr-148	0.664399081	0.595673846	0.416364132	0.583170295
Pr-148m	0.713903411	0.639182001	0.453274823	0.626951435
Pt-184	0.934120446	0.825992347	0.54849112	0.801809561
Pt-186	0.7950068	0.707369896	0.479958487	0.689436819
Pt-187	0.866048649	0.767588771	0.511924857	0.745911096
Pt-188	1.099496898	0.966623921	0.623128974	0.934110596
Pt-189	0.909216586	0.8040537	0.528637732	0.779801978
Pt-190	0	0	0	0
Pt-191	1.018539938	0.897165331	0.581618717	0.868116228
Pt-193	3.069173758	2.628205091	1.341190914	2.474070223
Pt-193m	2.012748755	1.741134716	0.973378126	1.65490024
Pt-195m	1.65136576	1.434835093	0.838452258	1.370068252
Pt-197	1.642072051	1.430087753	0.845256677	1.367705993
Pt-197m	1.489026918	1.296952077	0.769556179	1.241497141
Pt-199	0.750678774	0.670450248	0.469104602	0.656183434
Pt-200	1.294720061	1.1348464	0.709814026	1.09265179
Pt-202	0	0	0	0
Pu-232	1.295066891	1.148642037	0.758187537	1.1137204
Pu-234	1.324526876	1.174504561	0.771523411	1.138243265
Pu-235	1.32261467	1.172936996	0.767554249	1.136431107
Pu-236	1.776435683	1.570562589	0.97469552	1.513528933
Pu-237	1.432195179	1.269109018	0.819972051	1.227907103
Pu-238	1.817856039	1.607730406	0.999083716	1.549734922
Pu-239	1.795782939	1.587997716	0.986622838	1.530673658
Pu-240	1.816099982	1.606136684	0.998274095	1.548349278
Pu-241	1.430410306	1.266310916	0.816044305	1.224705063
Pu-242	1.7739316	1.568303976	0.973149356	1.511329653
Pu-243	1.191973107	1.060610956	0.709607136	1.030060143
Pu-244	1.106967748	0.983517846	0.635283319	0.952678685
Pu-245	0.769951508	0.688574198	0.481205906	0.673869641
Pu-246	1.099561032	0.979249732	0.666063244	0.953187627
Ra-219	0.879691643	0.782618895	0.540695764	0.764197984
Ra-220	0.731094137	0.653705239	0.463013019	0.64116477
Ra-221	1.592257649	1.396055462	0.853130868	1.34112108
Ra-222	0.787288955	0.703288013	0.501335667	0.689990152
Ra-223	1.133373315	1.000887086	0.655171238	0.969503117
Ra-224	0.876348842	0.78098491	0.551405241	0.764120378
Ra-225	1.428380902	1.261790136	0.791238049	1.216320117
Ra-226	1.040294906	0.924468578	0.6286893	0.899664228
Ra-227	1.175082567	1.040482924	0.67489042	1.007794067
Ra-228	1.806370379	1.599028077	1.001415594	1.5430752
Ra-230	1.042468756	0.924644277	0.618675907	0.898638952
Rb-77	0.725066449	0.648342316	0.454401803	0.634810175
Rb-78m	0.670370841	0.600632216	0.419627458	0.588062756
Rb-78	0.636877765	0.571063233	0.396005849	0.55837139
Rb-79	0.766994198	0.684629422	0.475787336	0.66949182
Rb-80	0.711586534	0.636790659	0.449786935	0.624269563
Rb-81	0.905409949	0.803571601	0.534896894	0.781450081
Rb-81m	1.80550657	1.585086273	0.952573308	1.521555794
Rb-82	0.71380987	0.63862654	0.450129457	0.625931652
Rb-82m	0.713397342	0.63793841	0.43845151	0.623281752
Rb-83	0.969921289	0.859083368	0.562226803	0.833498885
Rb-84	0.791476519	0.705178469	0.474909493	0.687118598
Rb-84m	0.870167457	0.77527274	0.539393306	0.757736958
Rb-86m	0.709414833	0.635039274	0.447365332	0.622287022
Rb-86	0.645406956	0.579285558	0.400423113	0.566263135

Rb-87	0	0	0	0
Rb-88	0.612086799	0.549347176	0.377739543	0.53691248
Rb-89	0.626011256	0.561918216	0.387382851	0.549172337
Rb-90	0.587025213	0.527489532	0.36226334	0.514937821
Rb-90m	0.614285817	0.55140911	0.379733767	0.538864004
Re-178	0.661787415	0.593044769	0.413655777	0.580164598
Re-179	0.701530203	0.627898087	0.441871382	0.615082711
Re-180	0.680704933	0.609744624	0.424407996	0.596668689
Re-181	0.725594346	0.649078316	0.457671846	0.635930042
Re-182	0.695024808	0.622487426	0.436406204	0.609022088
Re-182m	0.664367489	0.59548766	0.412843553	0.581999444
Re-183	0.871626031	0.775337977	0.545523951	0.756961438
Re-184	0.686453931	0.614786732	0.428325682	0.601716311
Re-184m	0.835018547	0.741051124	0.499601445	0.720962886
Re-186	1.098329572	0.965376179	0.629778202	0.933142382
Re-186m	2.639256304	2.254299723	1.143875686	2.119134691
Re-187	0	0	0	0
Re-188	0.839791495	0.74581742	0.508622117	0.726354184
Re-188m	1.524531476	1.320643586	0.7666545	1.258930109
Re-189	0.952141197	0.842201286	0.567385574	0.818612885
Re-190	0.720977955	0.645034766	0.454486123	0.632029921
Re-190m	0.755147727	0.673841156	0.468812514	0.658937093
Rh-100m	1.098247734	0.983310317	0.659791339	0.955783839
Rh-100	0.662349403	0.593976196	0.41009631	0.580613336
Rh-101	0.960180496	0.858899363	0.60450841	0.839621541
Rh-101m	0.909754264	0.813995688	0.56818946	0.795959984
Rh-102	0.77617615	0.694717317	0.484970961	0.679837153
Rh-102m	0.713370809	0.639165398	0.445775214	0.625624484
Rh-103m	1.247191739	1.116411044	0.741121035	1.083465986
Rh-104	0.722024493	0.646548091	0.453667113	0.63318357
Rh-104m	1.116176594	0.999203893	0.674829802	0.971471856
Rh-105	0.764563692	0.6839056	0.492626058	0.671897954
Rh-106	0.695855659	0.62318253	0.438499079	0.610653181
Rh-106m	0.671133902	0.601532652	0.420069307	0.588989802
Rh-107	0.758495562	0.678556195	0.48786671	0.666482683
Rh-108	0.717737913	0.642359254	0.455163312	0.630141802
Rh-109	0.778816146	0.696701614	0.499792225	0.683874676
Rh-94	0.657618491	0.589539144	0.410470011	0.57694988
Rh-95	0.666273425	0.597290906	0.415556042	0.584450454
Rh-95m	0.673628955	0.603671075	0.422223387	0.59090071
Rh-96	0.678754877	0.608279625	0.424702087	0.595640123
Rh-96m	0.681804507	0.61105354	0.424519875	0.59786674
Rh-97	0.711728376	0.637284106	0.447287017	0.624309524
Rh-97m	0.664070588	0.595544261	0.411763883	0.582137398
Rh-98	0.695948566	0.623267017	0.438079319	0.61068701
Rh-99	0.8440243	0.755456647	0.524795734	0.73843793
Rh-99m	0.788424905	0.705983822	0.492208174	0.690665152
Rn-207	0.774445081	0.690889811	0.47595204	0.674929623
Rn-209	0.754209276	0.673038287	0.461035559	0.657039765
Rn-210	0.840178369	0.747216475	0.502496453	0.727425839
Rn-211	0.719176045	0.642786557	0.43968513	0.627441022
Rn-212	0.688822432	0.617191669	0.432041506	0.604646149
Rn-215	0	0	0	0
Rn-216	0	0	0	0
Rn-217	0	0	0	0
Rn-218	0.700534366	0.627467536	0.440805536	0.61471852

Rn-219	0.807661772	0.720555595	0.509313453	0.705937099
Rn-220	0.720828813	0.644216507	0.453007838	0.631645404
Rn-222	0.736519573	0.658141103	0.464721272	0.645554964
Rn-223	0.90681215	0.805586298	0.535156284	0.782948987
Ru-103	0.715672919	0.64036735	0.45329643	0.627966735
Ru-105	0.709789549	0.635759927	0.446524274	0.622956067
Ru-106	0	0	0	0
Ru-107	0.681775928	0.611020251	0.428198034	0.59839947
Ru-108	0.886204199	0.792397339	0.569111458	0.775959911
Ru-92	0.765981462	0.685843222	0.480619877	0.671196468
Ru-94	0.828682342	0.741792809	0.514959546	0.725521764
Ru-95	0.730698731	0.654686964	0.45552837	0.640481146
Ru-97	0.986475647	0.882501747	0.615459371	0.862311343
S-35	0	0	0	0
S-37	0.568834789	0.511301469	0.349156269	0.498813616
S-38	0.59735162	0.536236573	0.367445485	0.523888912
Sb-111	0.713979451	0.639123703	0.45191258	0.62643627
Sb-113	0.716016309	0.640847472	0.452373053	0.628114852
Sb-114	0.661450878	0.593005146	0.412736227	0.580247076
Sb-115	0.728910088	0.652350675	0.459692757	0.639137525
Sb-116	0.65540006	0.587753536	0.407689664	0.574819031
Sb-116m	0.673172027	0.603651404	0.419534159	0.590403881
Sb-117	0.868787877	0.777899916	0.549838887	0.760105404
Sb-118	0.716701283	0.641444613	0.452613778	0.628650694
Sb-118m	0.676477743	0.606902221	0.420804758	0.593197469
Sb-119	1.020203185	0.914376773	0.615871327	0.887686498
Sb-120	0.73976592	0.662185553	0.465187188	0.648362316
Sb-120m	0.675049247	0.605599666	0.420868374	0.592023212
Sb-122m	0.901186638	0.807535436	0.562308636	0.787096696
Sb-122	0.701517792	0.628256401	0.44237695	0.615617707
Sb-124	0.648169166	0.581245314	0.403603885	0.568718519
Sb-124m	0.700299037	0.627193611	0.441675258	0.614685869
Sb-124n	0.997185142	0.893990827	0.603860336	0.868115542
Sb-125	0.74242009	0.664861825	0.468454133	0.651267475
Sb-126	0.691226671	0.619303151	0.434754187	0.606921019
Sb-126m	0.69812609	0.625345636	0.440046257	0.613016787
Sb-127	0.699535815	0.626544923	0.440966634	0.614137639
Sb-128	0.686987933	0.615546437	0.431675025	0.603154872
Sb-128m	0.689606163	0.617852039	0.43373528	0.605571319
Sb-129	0.65812183	0.590105676	0.410308163	0.577591096
Sb-130m	0.667855274	0.598758014	0.417261336	0.586246969
Sb-130	0.679409894	0.608879865	0.426349883	0.596471625
Sb-131	0.646112556	0.579577017	0.401760985	0.56696668
Sb-133	0.628663149	0.564171881	0.389363491	0.551517811
Sc-42m	0.659612048	0.591280318	0.411936054	0.578684248
Sc-43	0.71539265	0.640121365	0.453501017	0.627787937
Sc-44	0.673739028	0.60383068	0.422036027	0.591101128
Sc-44m	0.758623642	0.678871403	0.489758206	0.666664766
Sc-46	0.651013937	0.584089403	0.404535549	0.571288239
Sc-47	0.801911217	0.717242737	0.529441643	0.704669561
Sc-48	0.642840555	0.576912298	0.398740223	0.564007392
Sc-49	0.605919144	0.543832395	0.373091325	0.531398296
Sc-50	0.639416017	0.573616645	0.396845433	0.560891716
Se-70	1.081415851	0.948336393	0.59017551	0.913594502
Se-71	0.702504182	0.628668577	0.441340608	0.615718376
Se-72	2.614674467	2.238425071	1.149422465	2.10746079

Se-73	0.816728035	0.725807938	0.495237888	0.707926523
Se-73m	0.864373213	0.76599257	0.509285372	0.744540483
Se-75	1.232847353	1.07780128	0.667526102	1.036603683
Se-77m	1.45517491	1.269561077	0.768905728	1.217223857
Se-79m	2.693118493	2.316063816	1.223740091	2.188347316
Se-79	0	0	0	0
Se-81	0.726361305	0.650155963	0.462137938	0.637744405
Se-81m	2.593439744	2.23176335	1.187831303	2.110230127
Se-83m	0.647241682	0.580597128	0.402694236	0.56796611
Se-83	0.662776955	0.59410742	0.414633589	0.581640211
Se-84	0.738282738	0.660348443	0.471221361	0.648475396
Si-31	0.631698092	0.56705933	0.39071831	0.554091023
Si-32	0	0	0	0
Sm-139	0.7058334	0.631969937	0.446693123	0.619525106
Sm-140	0.698675218	0.626039223	0.440533566	0.613086823
Sm-141	0.69141104	0.619211991	0.435625708	0.606765361
Sm-141m	0.684356545	0.613241176	0.430453459	0.600651374
Sm-142	0.749216207	0.671466152	0.474102032	0.657211681
Sm-143	0.712163132	0.637533583	0.45028961	0.624837764
Sm-143m	0.678682511	0.608227581	0.424894171	0.595898511
Sm-145	0.808959458	0.726168345	0.513533478	0.709432323
Sm-146	0	0	0	0
Sm-147	0	0	0	0
Sm-148	0	0	0	0
Sm-151	1.182979996	1.05902101	0.703981404	1.027393924
Sm-153	0.798168273	0.714622529	0.517003927	0.699843423
Sm-155	0.805092314	0.719483426	0.529838442	0.706157186
Sm-156	0.804386849	0.71972265	0.524780739	0.706250876
Sm-157	0.727155722	0.651243138	0.465307099	0.638588075
Sn-106	0.724374838	0.648796053	0.455450966	0.635272295
Sn-108	0.775317795	0.694038318	0.490428268	0.679820448
Sn-109	0.650370262	0.583485362	0.402666368	0.570236718
Sn-110	0.839817687	0.7516124	0.5320246	0.735724092
Sn-111	0.726426112	0.650633555	0.453429873	0.636378169
Sn-113	1.029299564	0.92219012	0.621372732	0.895463405
Sn-113m	1.012130257	0.907206129	0.611880098	0.880853303
Sn-117m	0.879481168	0.787363284	0.559722471	0.769664666
Sn-119m	1.028443941	0.921648965	0.619963525	0.89461062
Sn-121	0	0	0	0
Sn-121m	0.967923184	0.868181883	0.590227173	0.843809161
Sn-123	0.644660453	0.578630219	0.399928768	0.565607166
Sn-123m	0.816944558	0.730907645	0.534870901	0.717270276
Sn-125m	0.751191733	0.672052731	0.482419358	0.660118145
Sn-125	0.647779515	0.58115697	0.402623012	0.568428472
Sn-126	0.896908116	0.803136271	0.565743748	0.783532976
Sn-127m	0.697803722	0.624646844	0.440341147	0.612255047
Sn-127	0.651512726	0.584397369	0.405727351	0.571676693
Sn-128	0.773299259	0.692482568	0.485219764	0.677394449
Sn-129	0.671480258	0.601977603	0.420229081	0.58938229
Sn-130	0.724031192	0.648514116	0.457647881	0.635444812
Sn-130m	0.679347911	0.609102714	0.424193681	0.595923061
Sr-79	0.772628684	0.689905902	0.481418028	0.675018519
Sr-80	0.956265549	0.849206715	0.563589758	0.825422509
Sr-81	0.734964725	0.657224599	0.463151854	0.643878171
Sr-82	2.148173394	1.882414544	1.110707491	1.803239876
Sr-83	0.893777208	0.794690088	0.528403144	0.772929551

Sr-85	0.947034542	0.840921046	0.558777609	0.81758866
Sr-85m	0.888826909	0.792403142	0.560553601	0.7754021
Sr-87m	0.807740031	0.721126751	0.506142462	0.706496302
Sr-89	0.661319859	0.593052046	0.411713893	0.580428278
Sr-90	0	0	0	0
Sr-91	0.663185817	0.594761741	0.41362307	0.582076629
Sr-92	0.628285094	0.563882469	0.388472178	0.551072986
Sr-93	0.665528336	0.596611117	0.414345752	0.583711106
Sr-94	0.624594967	0.560557368	0.38586431	0.547825972
Ta-170	0.711764838	0.636868194	0.448959275	0.624019461
Ta-172	0.678491567	0.607867952	0.424539837	0.59483513
Ta-173	0.709303777	0.634344767	0.442447773	0.62022252
Ta-174	0.697832083	0.624642849	0.438343917	0.611370699
Ta-175	0.675384316	0.604968789	0.421746959	0.59175246
Ta-176	0.634314201	0.568927212	0.392206772	0.555929457
Ta-177	0.847896854	0.754208993	0.527082644	0.73551538
Ta-178	0.765725668	0.682825008	0.473267093	0.666085894
Ta-178m	0.769194676	0.687421005	0.492968177	0.674528183
Ta-179	0.955645329	0.845157647	0.567330254	0.819728869
Ta-180	0.880945359	0.782338659	0.542291285	0.761783729
Ta-182	0.659134031	0.591095765	0.410090512	0.577801882
Ta-182m	0.843723361	0.75200804	0.538310942	0.735989399
Ta-183	0.823895374	0.734767067	0.524497976	0.719589947
Ta-184	0.712267043	0.63759559	0.450056128	0.624932085
Ta-185	0.832262874	0.741990888	0.528905252	0.726080881
Ta-186	0.71542021	0.640499787	0.453720533	0.627929631
Tb-146	0.642139307	0.575896932	0.399363055	0.563285891
Tb-147m	0.638492006	0.572740631	0.396476029	0.560031367
Tb-147	0.659856152	0.591775129	0.412015866	0.578955712
Tb-148m	0.687617797	0.616054296	0.432140808	0.603658604
Tb-148	0.663352591	0.594563132	0.414834512	0.582097599
Tb-149m	0.685530447	0.614236759	0.430304347	0.601765433
Tb-149	0.673694645	0.603849895	0.422931571	0.591316444
Tb-150m	0.702463446	0.629134444	0.44339798	0.61667994
Tb-150	0.643469553	0.577125571	0.400940201	0.564560946
Tb-151	0.717840309	0.642836517	0.456089576	0.630194904
Tb-151m	0.739989893	0.662663611	0.468020173	0.649136572
Tb-152m	0.734728457	0.657735642	0.469388682	0.645204334
Tb-152	0.669652991	0.600209429	0.420220005	0.587704846
Tb-153	0.742609886	0.665117507	0.475378683	0.651901675
Tb-154	0.625335679	0.561179885	0.387644613	0.548532852
Tb-155	0.788414071	0.705741766	0.511869785	0.691806254
Tb-156	0.671102134	0.601697306	0.420644722	0.588862578
Tb-156m	0.769958379	0.689808053	0.496759424	0.675395084
Tb-156n	0.781310707	0.700087143	0.503458859	0.685051065
Tb-157	0.785494543	0.704444038	0.500835613	0.688576623
Tb-158	0.672125207	0.602791583	0.420369072	0.589862804
Tb-160	0.665383167	0.596721772	0.415969383	0.583995301
Tb-161	0.873402834	0.782508827	0.546739241	0.763126219
Tb-162	0.693482297	0.621364217	0.437576899	0.608963728
Tb-163	0.730351519	0.653495416	0.465546581	0.641380857
Tb-164	0.669523225	0.600200341	0.419646645	0.587657293
Tb-165	0.63924554	0.573533811	0.396782129	0.560765112
Tc-101	0.758220915	0.678332108	0.48766765	0.666179032
Tc-102m	0.647427193	0.580544416	0.403347977	0.568024456
Tc-102	0.680021133	0.609188857	0.427103856	0.596738715

Tc-104	0.645670407	0.578991571	0.40287792	0.56659208
Tc-105	0.710122785	0.636141053	0.447286441	0.622956811
Tc-91	0.654542347	0.586682366	0.408617114	0.574146604
Tc-91m	0.705654992	0.631601211	0.445632	0.619100286
Tc-92	0.678561976	0.608004128	0.425304481	0.595354844
Tc-93	0.682762169	0.612306142	0.419516657	0.597916791
Tc-93m	0.675016444	0.605172432	0.41872986	0.59166899
Tc-94	0.700648047	0.627874824	0.435922976	0.614513536
Tc-94m	0.684707754	0.613476929	0.427832097	0.600598824
Tc-95	0.770986083	0.690528004	0.475253134	0.674984095
Tc-95m	0.808161565	0.723505233	0.502072343	0.707420009
Tc-96	0.702493416	0.629540299	0.436330443	0.616065041
Tc-96m	1.078508373	0.965401028	0.646504504	0.939268619
Tc-97	1.475043405	1.318019184	0.865335496	1.279082637
Tc-97m	1.388525535	1.242171546	0.821000358	1.206019183
Tc-98	0.684735604	0.613611738	0.429602386	0.601202605
Tc-99	1.120313852	1.006516148	0.685144101	0.977727214
Tc-99m	0.860966471	0.769614469	0.561113319	0.754886249
Te-113	0.66902849	0.599534364	0.418833447	0.586969685
Te-114	0.684279079	0.613479636	0.42621861	0.599928427
Te-115	0.671902149	0.602239951	0.420269542	0.589466963
Te-115m	0.661300105	0.592875312	0.412389745	0.58014453
Te-116	0.888652702	0.79645579	0.550372803	0.776011011
Te-117	0.668555378	0.599375874	0.416478144	0.586421641
Te-118	0.979553745	0.878509302	0.595778168	0.853560746
Te-119	0.711817667	0.63799429	0.444854306	0.624238271
Te-119m	0.675211617	0.605704996	0.420993336	0.592147321
Te-121	0.739904528	0.662696377	0.464367404	0.648557478
Te-121m	0.818309418	0.732827454	0.523932099	0.717715981
Te-123	0.979553754	0.87850931	0.595778172	0.853560754
Te-123m	0.846810279	0.758204818	0.545615081	0.74237801
Te-125m	0.950480727	0.852918384	0.582379762	0.829484098
Te-127	0.7441361	0.665675989	0.475163565	0.653556379
Te-127m	0.952094168	0.854320818	0.583103643	0.830797116
Te-129	0.77009904	0.689732629	0.483299829	0.674790427
Te-129m	0.819363	0.734819915	0.506734553	0.716791239
Te-131	0.719286952	0.644197161	0.457549946	0.631328338
Te-131m	0.674671362	0.604836031	0.42208861	0.592155444
Te-132	0.830567045	0.743801262	0.5332514	0.728704135
Te-133	0.669812941	0.600369595	0.420228374	0.587965044
Te-133m	0.667523578	0.598499196	0.417032986	0.585848278
Te-134	0.719821851	0.64462897	0.456264209	0.631949853
Th-223	1.435343217	1.264032521	0.798311412	1.218847704
Th-224	1.024681639	0.910178731	0.620702648	0.886235425
Th-226	1.583077991	1.394470137	0.869368468	1.343553057
Th-227	1.336485323	1.179558713	0.751552878	1.139707929
Th-228	1.904666101	1.675165019	1.0171041	1.610014576
Th-229	1.620866052	1.425284916	0.879173509	1.371154829
Th-230	2.022413072	1.776306595	1.068674687	1.705731943
Th-231	1.703322904	1.503848105	0.931074731	1.448231719
Th-232	2.036168599	1.78861216	1.073964132	1.716881592
Th-233	1.067600387	0.948437529	0.626225996	0.920809738
Th-234	1.523679435	1.346079946	0.851201803	1.299048043
Th-235	0.723855005	0.647707083	0.453117759	0.634339641
Th-236	1.037819544	0.92199032	0.616180312	0.896315593
Ti-44	0.776051829	0.693425297	0.512846192	0.681051378

Ti-45	0.712256047	0.637339588	0.45101383	0.624951549
Ti-51	0.742008666	0.664008908	0.475647736	0.652014121
Ti-52	0.966727605	0.863218305	0.615947875	0.844690452
Tl-190	0.723384369	0.646915903	0.454944001	0.633823005
Tl-190m	0.71187604	0.637011082	0.446679871	0.623962204
Tl-194	0.746672562	0.666941113	0.46643325	0.652874229
Tl-194m	0.729720592	0.652291037	0.454768476	0.638414609
Tl-195	0.720325411	0.642957357	0.435286357	0.626663069
Tl-196	0.682640327	0.610854841	0.422442573	0.597233864
Tl-197	0.815422842	0.725314696	0.490700815	0.706441118
Tl-198	0.675674865	0.604749979	0.416820726	0.590986784
Tl-198m	0.804985591	0.716598338	0.49007946	0.699189557
Tl-199	0.955774903	0.846469666	0.567590517	0.822795066
Tl-200	0.716449022	0.640507502	0.442819517	0.626036238
Tl-201	1.305753518	1.145794135	0.722681314	1.104123403
Tl-202	0.825396266	0.734531645	0.507028827	0.717556
Tl-204	1.416077811	1.239612636	0.765079289	1.191578492
Tl-206m	0.729318814	0.651977141	0.454841716	0.63792266
Tl-206	1.410009929	1.230299154	0.73655154	1.17868386
Tl-207	0.66491712	0.596097618	0.413633094	0.583387762
Tl-208	0.616384873	0.552995148	0.380997581	0.540351362
Tl-209	0.665469114	0.595834912	0.412369325	0.582532612
Tl-210	0.675847114	0.60496304	0.416077551	0.591112521
Tm-161	0.668605927	0.599326702	0.420255871	0.586613239
Tm-162	0.646968227	0.580170146	0.403530159	0.567591638
Tm-163	0.661243342	0.592954994	0.413895587	0.58015427
Tm-164	0.684204158	0.612853394	0.430652989	0.600287491
Tm-165	0.725640829	0.649797253	0.462927686	0.63716647
Tm-166	0.645299998	0.578816429	0.401924859	0.566211538
Tm-167	0.781963081	0.699969027	0.508645626	0.686736177
Tm-168	0.698106038	0.62540638	0.441044831	0.61295281
Tm-170	0.779861349	0.697554629	0.509769523	0.683580235
Tm-171	0.7820076	0.699297632	0.504530398	0.684714768
Tm-172	0.632421002	0.567487	0.39196676	0.554720906
Tm-173	0.740180208	0.662070025	0.472953184	0.650197265
Tm-174	0.703288139	0.630059746	0.445679074	0.617559841
Tm-175	0.68406645	0.612863308	0.429615804	0.600313779
Tm-176	0.655346105	0.587745457	0.410086929	0.575103641
U-227	1.174301641	1.040721218	0.689132225	1.009889645
U-228	1.67549354	1.479516608	0.922063143	1.426049935
U-230	1.823359161	1.608188008	0.987490768	1.547704414
U-231	1.591880994	1.405626335	0.881364005	1.355236826
U-232	1.873048162	1.651201046	1.008912946	1.588224138
U-233	1.889935082	1.66446493	1.012101493	1.599985114
U-234	1.910948394	1.686245148	1.033698109	1.623789912
U-235	1.096581249	0.975923007	0.666766266	0.949310538
U-235m	0	0	0	0
U-236	1.88707981	1.663219343	1.014615883	1.599490485
U-237	1.233995765	1.095692065	0.726137552	1.063229879
U-238	1.910073187	1.685496425	1.03233538	1.622798572
U-239	1.076214026	0.957002396	0.64583668	0.930709867
U-240	1.675031006	1.482378339	0.929827547	1.43014694
U-242	0.836140634	0.746499397	0.52058773	0.72968913
V-47	0.711801417	0.63693928	0.450688871	0.6245513
V-48	0.653173792	0.585831108	0.4066263	0.573059551
V-49	0	0	0	0

V-50	0.621074647	0.557316359	0.383522681	0.544757715
V-52	0.621533309	0.557853157	0.38363733	0.545108979
V-53	0.649256128	0.582608333	0.403282058	0.569710535
W-177	0.724040907	0.647636536	0.455996366	0.633987741
W-178	1.059693917	0.933596184	0.609219149	0.90251345
W-179	0.934651968	0.830417113	0.565548406	0.807109342
W-179m	0.860472949	0.765810842	0.540022449	0.747987318
W-181	0.884258463	0.785389013	0.544397752	0.764882875
W-185m	1.246838499	1.092847232	0.689238614	1.052566278
W-185	1.194370551	1.044417786	0.657515834	1.004923303
W-187	0.736045829	0.65724346	0.456561902	0.642754689
W-188	0.899118721	0.797246635	0.546733549	0.777031492
W-190	1.15718039	1.013549094	0.643054621	0.976327402
Xe-120	0.776537342	0.695935038	0.486337747	0.680351491
Xe-121	0.674357758	0.604381691	0.422567416	0.591547379
Xe-122	0.871095737	0.781126627	0.544268656	0.762435677
Xe-123	0.723259951	0.647995722	0.456355576	0.634361013
Xe-125	0.81971474	0.734404422	0.522121401	0.718797689
Xe-127	0.826198716	0.739884897	0.53002373	0.724851445
Xe-127m	0.839637985	0.751516122	0.544788006	0.736483293
Xe-129m	0.905754782	0.813318032	0.563263391	0.792629977
Xe-131m	0.911273963	0.818308494	0.566069572	0.797350149
Xe-133	0.85389549	0.7659076	0.543582215	0.748299093
Xe-133m	0.880701215	0.790172425	0.55318101	0.771414458
Xe-135	0.780431673	0.698268685	0.506403452	0.685878177
Xe-135m	0.715941063	0.640842672	0.452588291	0.628117652
Xe-137	0.702425798	0.62872872	0.444199235	0.616528404
Xe-138	0.64269693	0.576209674	0.400108181	0.563695085
Y-81	0.784867034	0.70084009	0.489345373	0.685718785
Y-83	0.763395235	0.682079103	0.472220477	0.666869416
Y-83m	0.77126525	0.689273009	0.484425747	0.675095375
Y-84m	0.673078317	0.603244973	0.420522055	0.590533747
Y-85	0.747029677	0.667725977	0.466772643	0.653684427
Y-85m	0.717631238	0.641948314	0.444642008	0.627705643
Y-86	0.679582473	0.60882706	0.419973172	0.595097845
Y-86m	0.815427877	0.729114585	0.526720175	0.715320384
Y-87	0.950300039	0.845242828	0.567165021	0.822955704
Y-87m	0.814220173	0.727228976	0.510983422	0.71255813
Y-88	0.67734801	0.606474373	0.412150788	0.591831119
Y-89m	0.661319858	0.593052045	0.411713892	0.580428277
Y-90	1.681428816	1.494844085	0.955536298	1.446402341
Y-90m	0.763076818	0.68233309	0.486533752	0.66922818
Y-91	0.635859333	0.570803903	0.393648733	0.557779511
Y-91m	0.715754138	0.64066566	0.450783245	0.627699291
Y-92	0.654080149	0.58661396	0.407083239	0.57396264
Y-93	0.66207431	0.593585085	0.414795223	0.58106494
Y-94	0.651165545	0.584075397	0.405017696	0.571452715
Y-95	0.60068584	0.539409361	0.370422079	0.526890898
Yb-162	0.760314144	0.680368638	0.492295003	0.667416225
Yb-163	0.68239613	0.611350461	0.428927095	0.59870432
Yb-164	0.760267723	0.680848015	0.489916337	0.666909609
Yb-165	0.708476026	0.634665758	0.450439469	0.621559223
Yb-166	0.771766003	0.691017235	0.50051224	0.676859207
Yb-167	0.785004515	0.701990638	0.51129401	0.688330937
Yb-169	0.784317304	0.7017745	0.511810664	0.688570679
Yb-175	0.761608768	0.680809623	0.488149111	0.668336006

Yb-177	0.685159538	0.614003278	0.430892004	0.600728826
Yb-178	0.753845218	0.673951289	0.481141587	0.661692191
Yb-179	0.706020201	0.63224854	0.445886424	0.619675334
Zn-60	0.70840321	0.634139787	0.448206869	0.621740946
Zn-61	0.68704684	0.615205316	0.432625855	0.60279199
Zn-62	0.713176488	0.638529786	0.451359133	0.625890786
Zn-63	0.705987111	0.631891119	0.44627631	0.61947338
Zn-65	0.644152466	0.578156084	0.399638025	0.565133352
Zn-69	0.726521192	0.650352971	0.463313593	0.638278383
Zn-69m	0.729980143	0.652938009	0.464829032	0.640958847
Zn-71	0.692297849	0.620000481	0.436016456	0.60752722
Zn-71m	0.708577839	0.634382024	0.448470008	0.622059403
Zn-72	0.997419877	0.883908887	0.606686109	0.860228986
Zr-85	0.711766244	0.636962711	0.449162562	0.624348839
Zr-86	1.198327252	1.065601786	0.707403009	1.035291764
Zr-87	0.727644697	0.650913698	0.457146532	0.63761391
Zr-88	0.973187323	0.866983468	0.588990014	0.845648634
Zr-89	0.748058229	0.66919551	0.458815286	0.653697742
Zr-89m	0.705567014	0.631879004	0.442182488	0.618703036
Zr-93	0	0	0	0
Zr-95	0.679303108	0.608771481	0.425408177	0.596451192
Zr-97	0	0	0	0