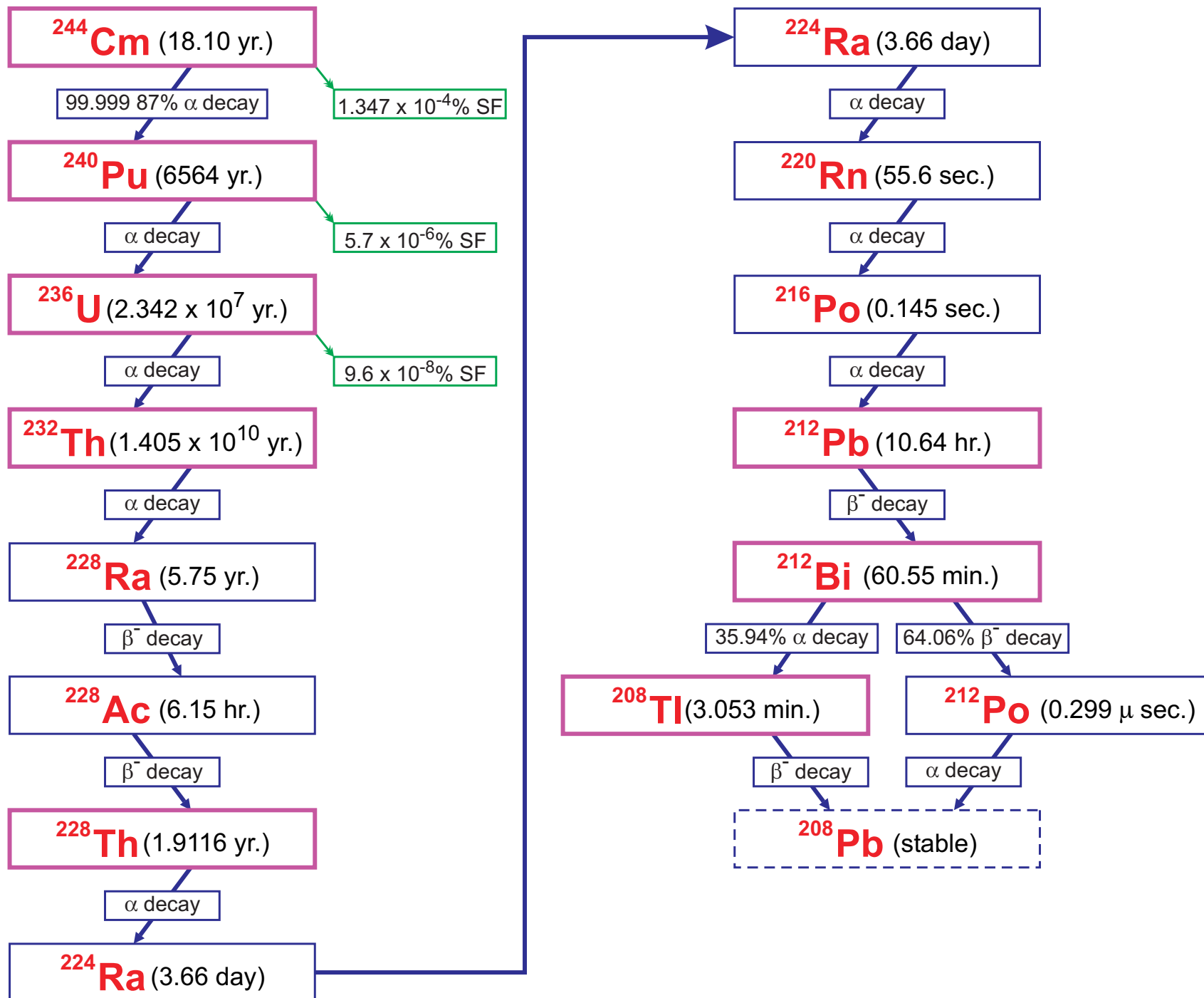
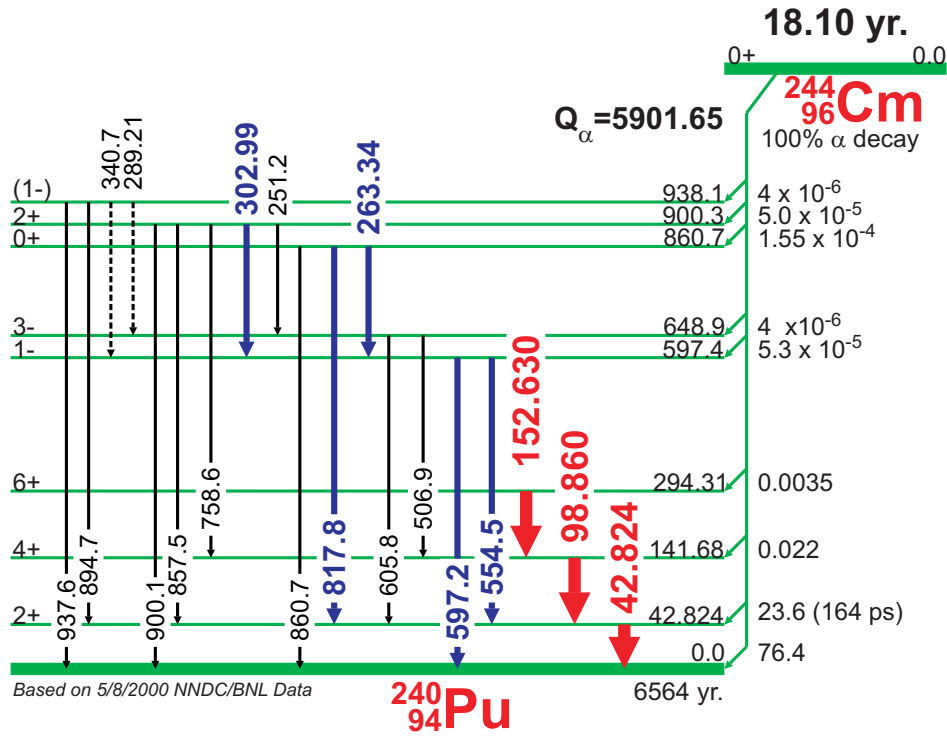


²⁴⁴Cm Decay Chain



²⁴⁴Cm (18.10 yr.) Decay Scheme



GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: **²⁴⁴Cm**

Half Life: 18.10(2) yr.

E_γ (keV)	σE_γ	I_γ	σI_γ	Level	
42.824	0.008	0.024 0	0.002 5	42.824	α
98.860	0.013	0.001 62	0.000 15	141.68	α
152.630	0.020	0.000 98	0.000 05	294.31	α
251.2	0.2	0.000 009 8	0.000 001 5	900.3	α
263.34	0.15	0.000 053 9	0.000 003 4	860.7	α
289.21	0.10	0.000 000 466	0.000 000 147	938.1	α
302.99	0.15	0.000 016 7	0.000 001 5	900.3	α
340.7	0.1	0.000 001 67	0.000 000 74	938.1	α
506.9	0.3	0.000 007 8	0.000 002 5	648.9	α
554.5	0.2	0.000 078 9	0.000 004 9	597.4	α
597.2	0.2	0.000 049 0		597.4	α
605.8	0.2	0.000 007 4	0.000 001 0	648.9	α
758.6	0.2	0.000 012 7	0.000 001 0	900.3	α
817.8	0.2	0.000 063 7	0.000 004 9	860.7	α
857.5	0.2	0.000 005 4	0.000 000 5	900.3	α
860.7		EO		860.7	α
894.7	0.5	0.000 001 67	0.000 000 49	938.1	α
900.1	0.5	0.000 001 23	0.000 000 49	900.3	α
937.6	1.0	0.000 000 59	<	938.1	α

E_γ , σE_γ , I_γ , σI_γ . Levels from ENSDF Database as of August 30, 1999

① These I_γ are per 100 Decays of ²⁴⁴Cm.

② For total uncertainty add 12% systematic component in quadrature, based on the normalization factor 0.000 000 49 (6)

