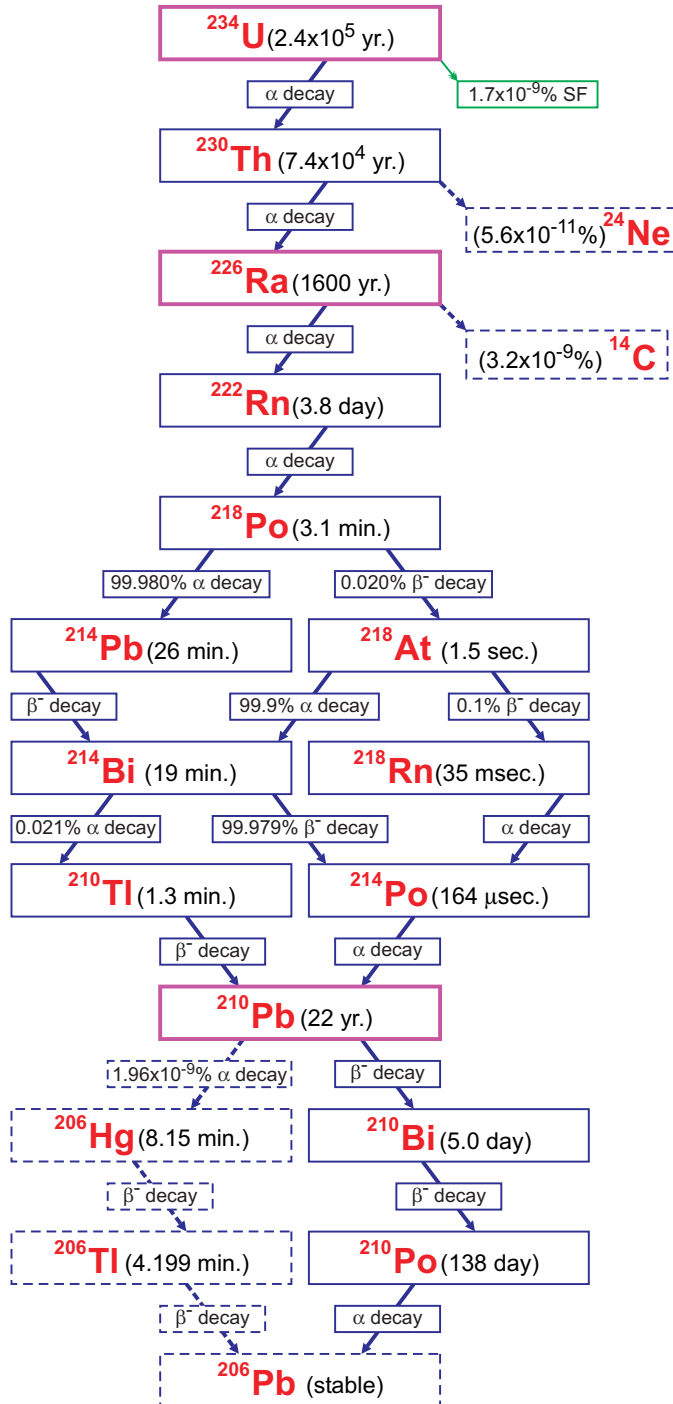
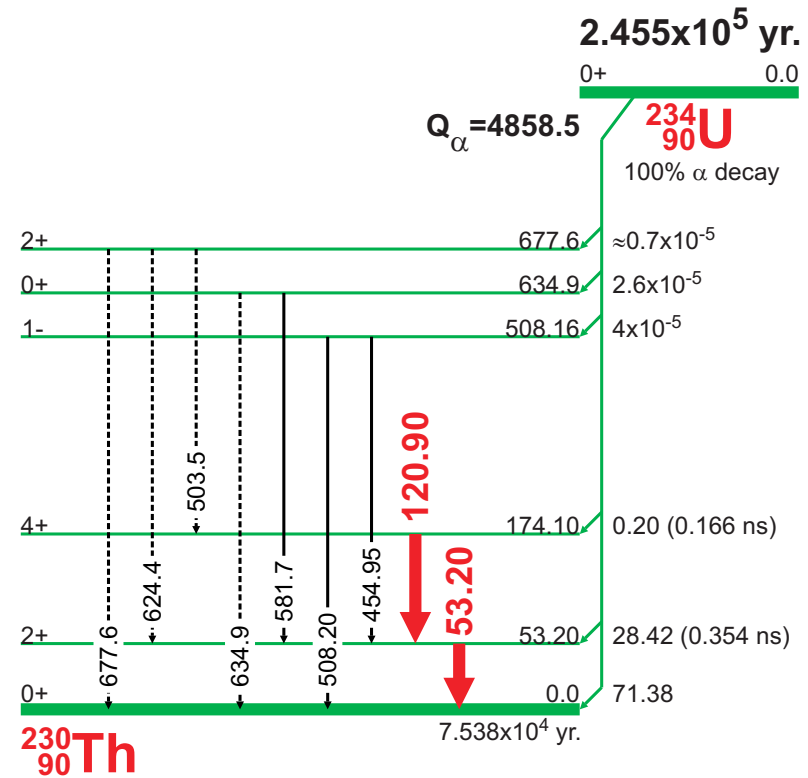


Simplified Decay Chain



²³⁴U (2.457 x 10⁵ yr.) Decay Scheme



Based on 2/9/2000 NNDC/BNL Data

GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: ²³⁴U Half Life: 2.455x10⁵(6) yr.

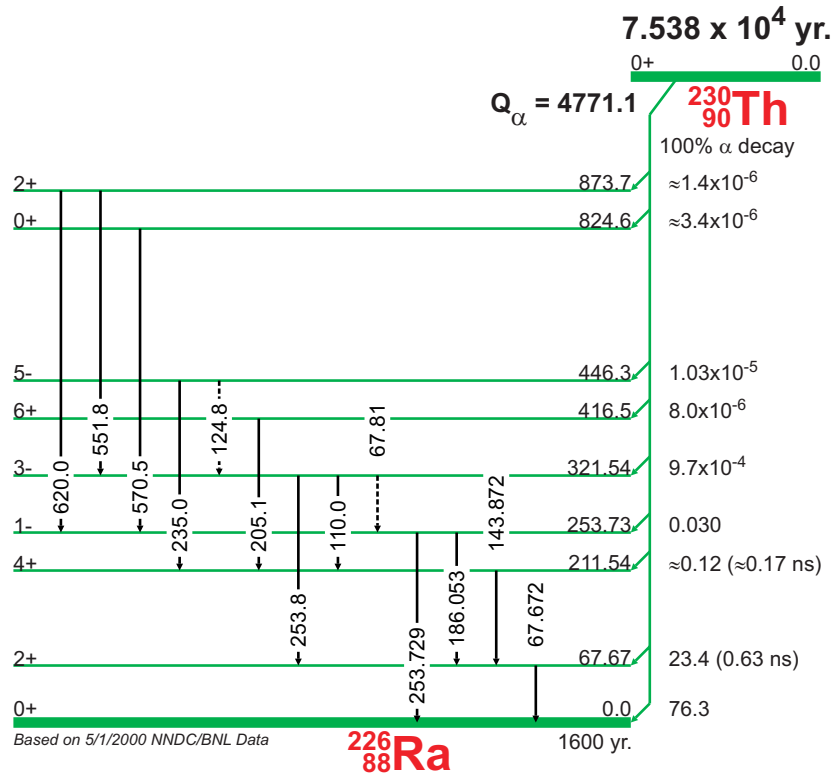
E _γ (keV)	σ E _γ	① I _γ	② σ I _γ	Level	
53.20	0.02	0.123	0.002	53.20	α
120.90	0.02	0.034 2	0.000 5	174.10	α
454.95	0.05	0.000 025	0.000 007	508.16	α
503.5	0.2	0.000 000 95	≈	677.6	α
508.20	0.05	0.000 015	0.000 004	508.16	α
581.7	0.2	0.000 012	0.000 005	634.9	α
624.4	0.1	0.000 000 82	≈	677.6	α
634.9	0.2	E0		634.9	α
677.6	0.1	0.000 001 0	≈	677.6	α

E_γ, σE_γ, I_γ, σI_γ Levels from ENSDF Database as of February 9, 2000

① These I_γ are per 100 Decays of ²³⁴U.

② Normalization factor is 1.000, and its uncertainty is taken to be 0.0.

²³⁰Th (7.538 x 10⁴ yr.) Decay Scheme



GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: ²³⁰Th

Half Life: 7.538x10⁴(30) yr.

E_γ (keV)	σE_γ	I_γ	σI_γ	Level	
67.672	0.002	0.377	0.021	67.67	α
67.81	0.20			321.54	α
110.0	0.1	0.000 060	0.000 005	321.54	α
124.8	0.2	0.000 000 28	0.000 000 14	446.3	α
143.872	0.004	0.048 0	0.002 2	211.54	α
186.053	0.004	0.008 8	0.000 4	253.73	α
205.1	0.5	0.000 005 2	0.000 001 2	416.5	α
235.0	0.1	0.000 008 4	0.000 001 8	446.3	α
253.729	0.010	0.011 1	0.000 5	253.73	α
253.8	0.1	0.000 85	0.000 09	321.54	α
551.8	0.5	0.000 000 54	0.000 000 08	873.7	α
570.5	0.3	0.000 003 3	0.000 000 5	824.6	α
620.0	0.5	0.000 000 80	0.000 000 12	873.7	α

E_γ , σE_γ , I_γ , σI_γ , Levels from ENSDF Database as of May 1, 2000

① These I_γ are per 100 Decays of ²³⁰Th.

② For total uncertainty add 5.94% systematic component in quadrature, based on the normalization factor 1.01(6)

