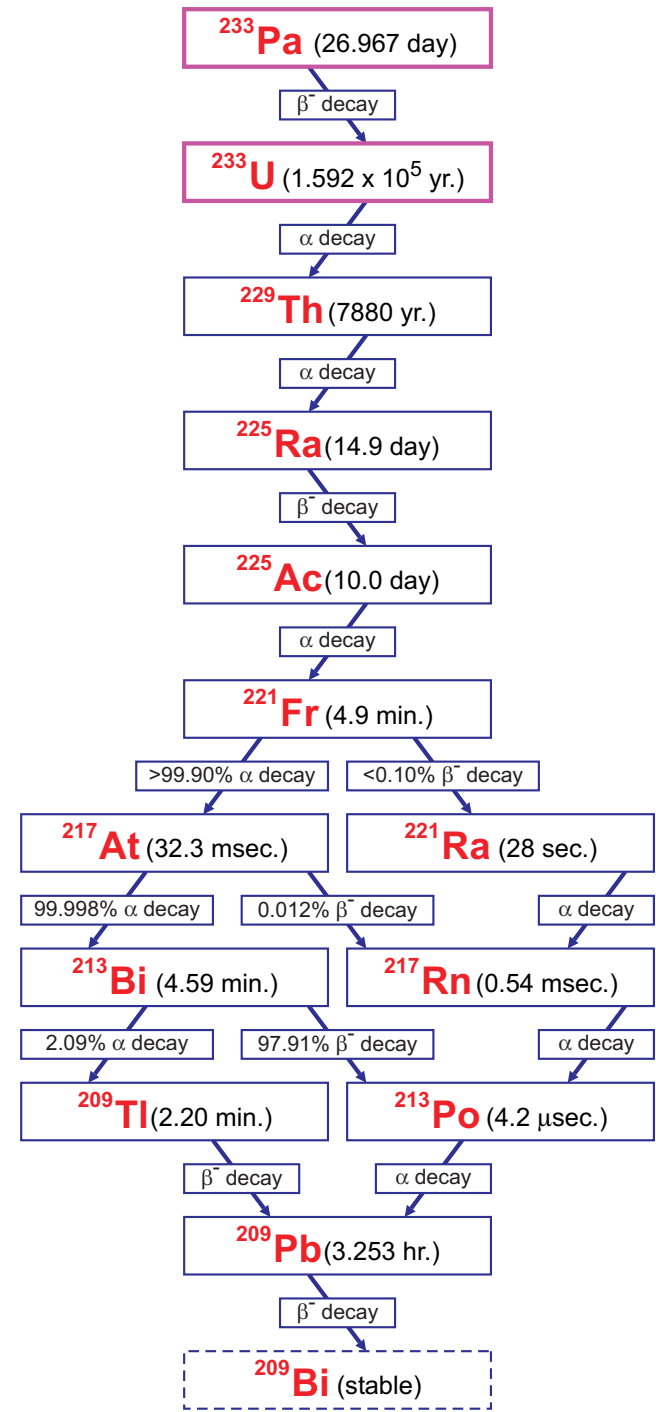
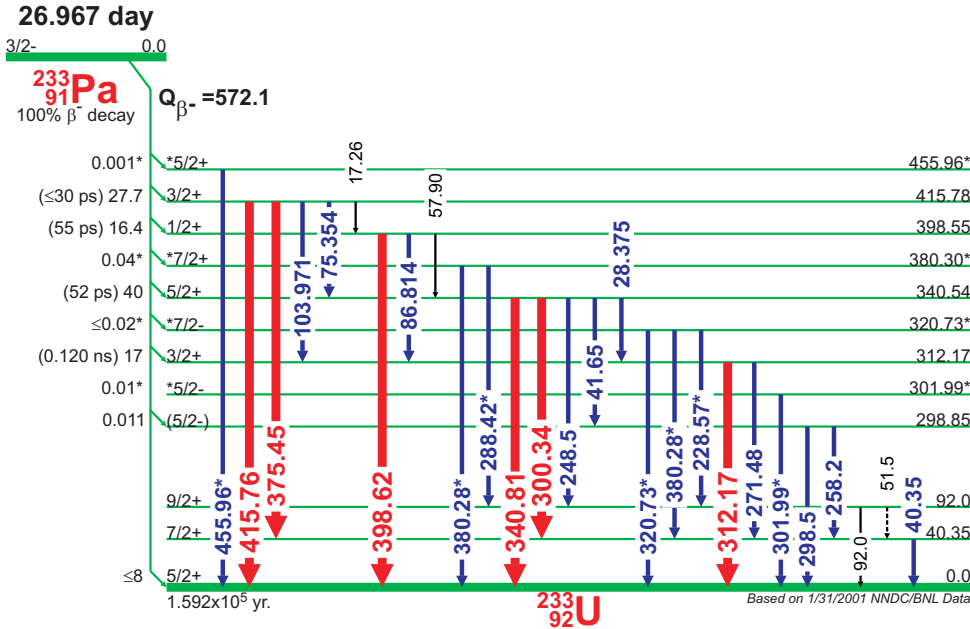


## Simplified Decay Chain



# <sup>233</sup>Pa (26.9 day) Decay Scheme



\* γ ray data is not currently in ESDF for this decay, but has been reported by: M. C. Kouassi, C. Ardisson-Marsol and G. Ardisson, J. Phys. G: Nucl. Part. Phys. 16 (1990) 1881-1890

## GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: <sup>233</sup>Pa

Half Life: 26.967(2) day

E <sub>γ</sub> (keV)	σ E <sub>γ</sub>	① I <sub>γ</sub>	② σ I <sub>γ</sub>	Level	β <sup>-</sup>
17.26		0.004	≈	415.78	β <sup>-</sup>
28.375	0.005	0.11	0.04	340.54	β <sup>-</sup>
40.35	0.01	0.039	0.008	40.35	β <sup>-</sup>
41.65	0.02	0.013	0.004	340.54	β <sup>-</sup>
51.5	0.5	0.000 8	<	92.0	β <sup>-</sup>
57.9		0.000 9		398.55	β <sup>-</sup>
75.354	0.004	1.39	0.08	415.78	β <sup>-</sup>
86.814	0.003	1.97	0.12	398.55	β <sup>-</sup>
92.0	0.5	0.004	<	92.0	β <sup>-</sup>
103.971	0.009	0.87	0.03	415.78	β <sup>-</sup>
228.57	0.05	0.004 2	0.000 7	320.73	β <sup>-</sup>
248.5	0.5	0.059	0.003	340.54	β <sup>-</sup>
258.2	0.2	0.003 9	0.001 6	298.85	β <sup>-</sup>
271.48	0.08	0.328	0.012	312.17	β <sup>-</sup>
280.61	0.05	0.011	0.002	320.73	β <sup>-</sup>
288.42	0.10	0.016	0.003	380.30	β <sup>-</sup>
298.5		0.035		298.85	β <sup>-</sup>
300.34	0.02	6.62	0.06	340.54	β <sup>-</sup>
301.99	0.10	0.01	0.02	301.99	β <sup>-</sup>
312.17	0.02	38.6	0.4	312.17	β <sup>-</sup>
320.73	0.10	0.005 1	0.000 3	320.73	β <sup>-</sup>
340.81	0.03	4.47	0.04	340.54	β <sup>-</sup>
375.45	0.04	0.679	0.008	415.78	β <sup>-</sup>
380.28	0.08	0.003 7	0.000 9	380.30	β <sup>-</sup>
398.62	0.08	1.390	0.012	398.55	β <sup>-</sup>
415.76	0.04	1.745	0.016	415.78	β <sup>-</sup>
455.96	0.10	0.0011	0.0002	455.96	β <sup>-</sup>

E<sub>γ</sub> σ E<sub>γ</sub> I<sub>γ</sub> σ I<sub>γ</sub> Levels from ENSDF Database as of January 1, 2001

① These I<sub>γ</sub> are per 100 Decays of <sup>233</sup>Pa.

② Normalization factor is 1.0, and its uncertainty is taken to be 0.0.

\* γ ray is not currently in ESDF for this decay, but has been reported by: M. C. Kouassi, C. Ardisson-Marsol and G. Ardisson, J. Phys. G: Nucl. Part. Phys. 16 (1990) 1881-1890

