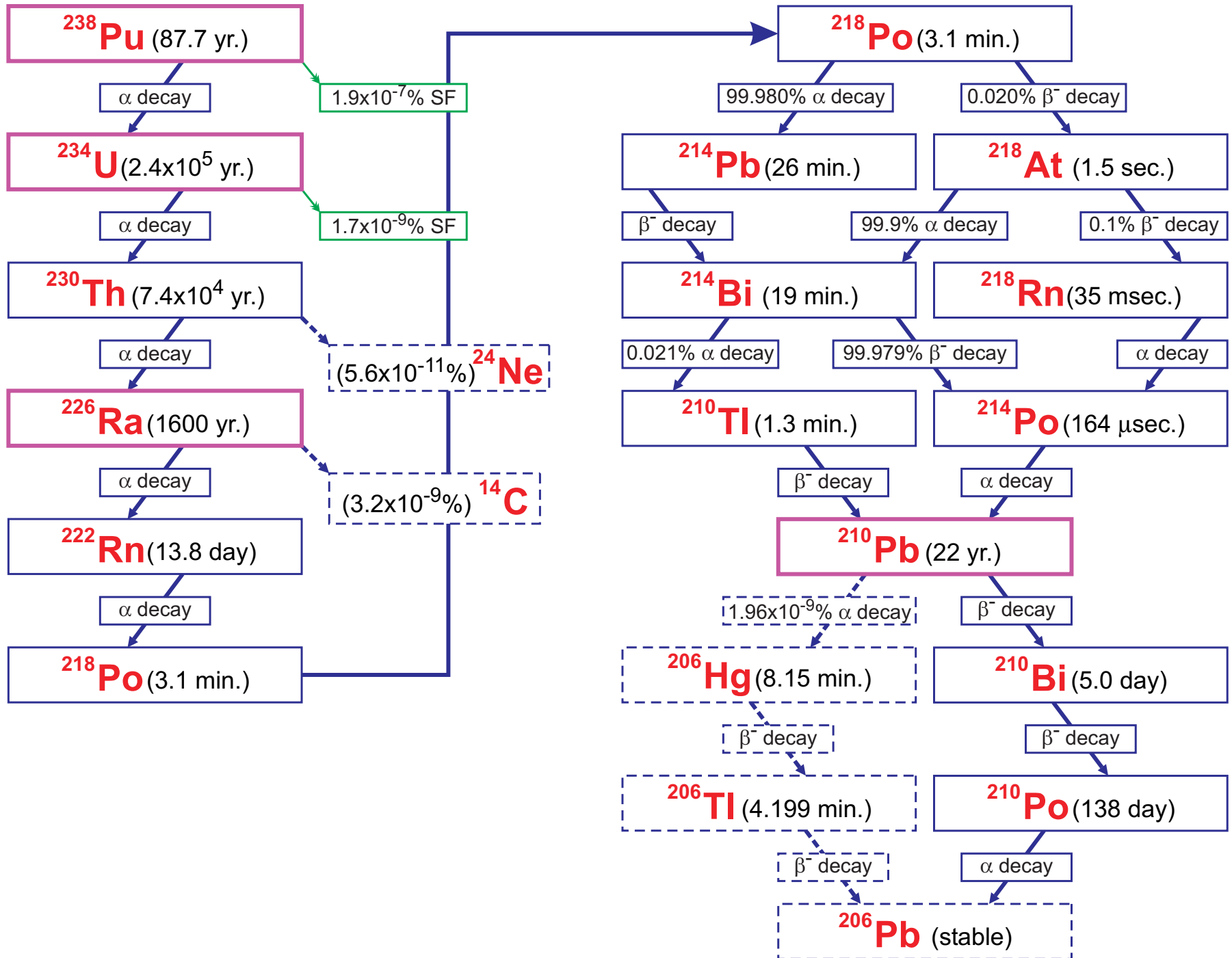
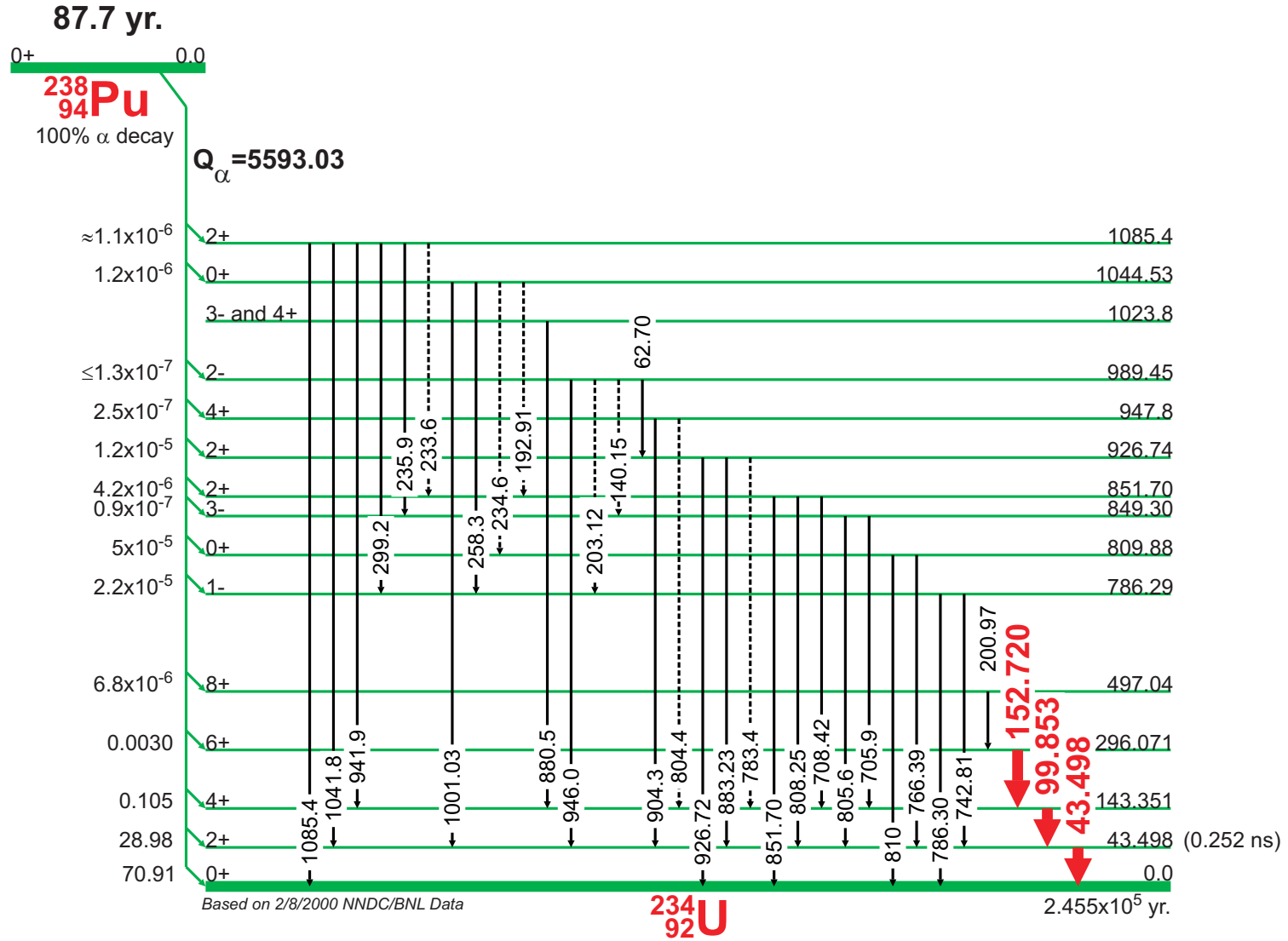


²³⁸Pu Decay Chain



²³⁸Pu (87.7 yr.) Decay Scheme



GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: ^{238}Pu
 E_γ , σE_γ , I_γ , σI_γ Levels- from ENSDF Database as of February 8, 2000

Half Life: 87.7(3) yr

E_γ (keV)	σE_γ	I_γ	σI_γ	Level	
43.498	0.001	0.039 5	0.000 8	43.498	α
62.70	0.01	0.000 000 01	\leq	989.45	α
99.853	0.003	0.007 35	0.000 08	143.351	α
140.15	0.02	0.000 000 002	\leq	989.45	α
152.720	0.002	0.000 937	0.000 010	296.071	α
192.91	0.07	0.000 000 000 65	\approx	1,044.53	α
200.97	0.03	0.000 003 9	0.000 000 2	497.04	α
203.12	0.03	0.000 000 008	\leq	989.45	α
233.6	0.2			1,085.4	α
234.6	0.2			1,044.53	α
235.9	0.3	0.000 000 010	0.000 000 005	1,085.4	α
258.3	0.2	0.000 000 085	0.000 000 013	1,044.53	α
299.2	0.2	0.000 000 048	0.000 000 013	1,085.4	α
705.9	0.3	0.000 000 053	0.000 000 020	849.30	α
708.42	0.20	0.000 000 41	0.000 000 07	851.70	α
742.81	0.10	0.000 005 2	0.000 000 2	786.29	α
766.39	0.10	0.000 022	0.000 002	809.88	α

E_γ (keV)	σE_γ	I_γ	σI_γ	Level	
783.4	0.1	0.000 000 024	0.000 000 004	926.74	α
786.30	0.10	0.000 003 25	0.000 000 25	786.29	α
804.4	0.3	0.000 000 12	0.000 000 05	947.8	α
805.6	0.3	0.000 000 06	0.000 000 03	849.30	α
808.25	0.15	0.000 000 80	0.000 000 02	851.70	α
810				809.88	α
851.70	0.10	0.000 001 25	0.000 000 15	851.70	α
880.5	0.3	0.000 000 16	0.000 000 04	1,023.8	α
883.23	0.10	0.000 000 77	0.000 000 06	926.74	α
904.3	0.2	0.000 000 065	0.000 000 010	947.8	α
926.72	0.15	0.000 000 58	0.000 000 03	926.74	α
941.9	0.2	0.000 000 47	0.000 000 05	1,085.4	α
946.0	0.3	0.000 000 087	\leq	989.45	α
1,001.03	0.15	0.000 000 99	0.000 000 07	1,044.53	α
1,041.8	0.3	0.000 000 22	0.000 000 03	1,085.4	α
1,085.4	0.3	0.000 000 092	0.000 000 010	1,085.4	α

① These I_γ are per 100 Decays of ^{238}Pu .

② Normalization factor is 0.0001, and its uncertainty is taken to be 0.0.

