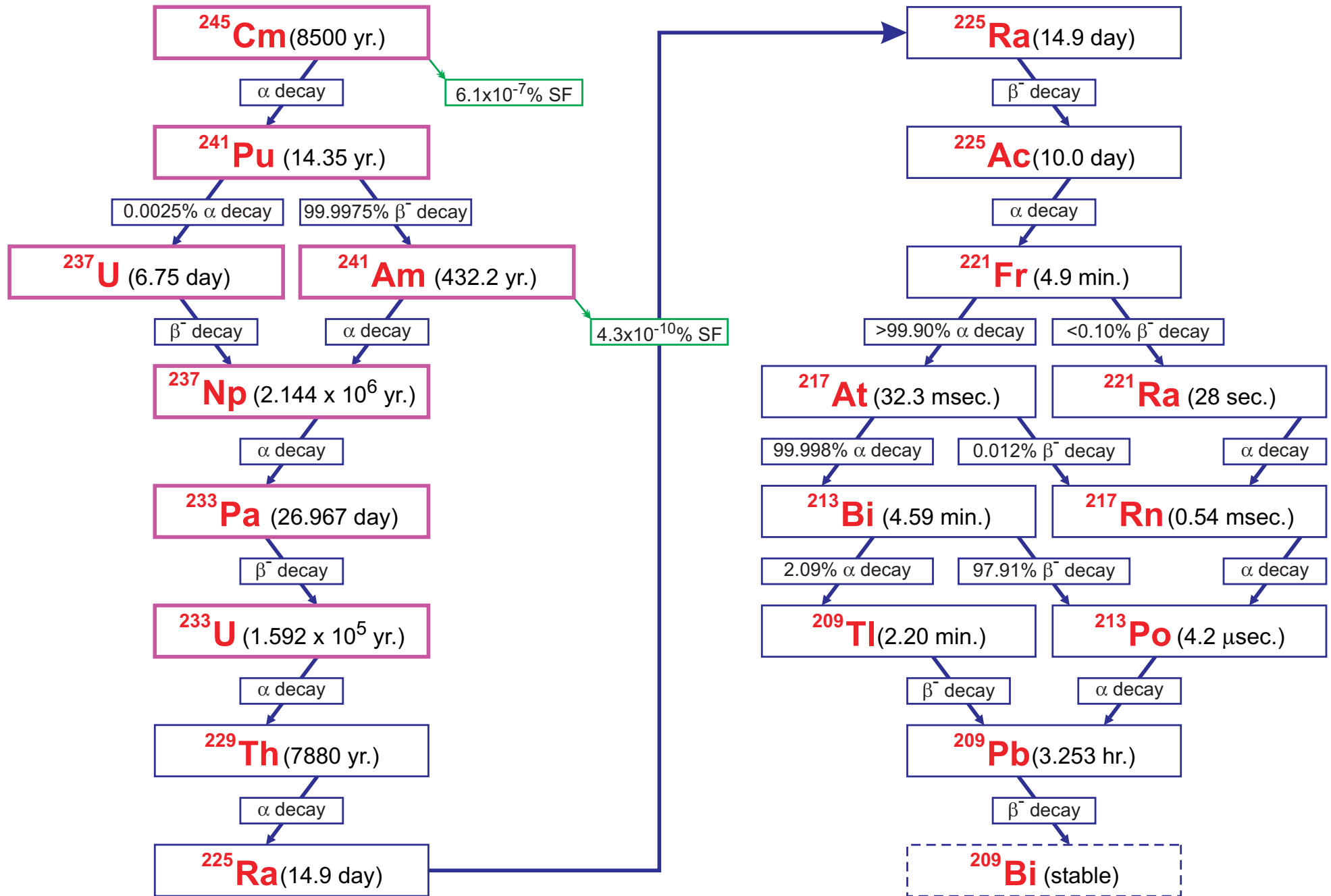
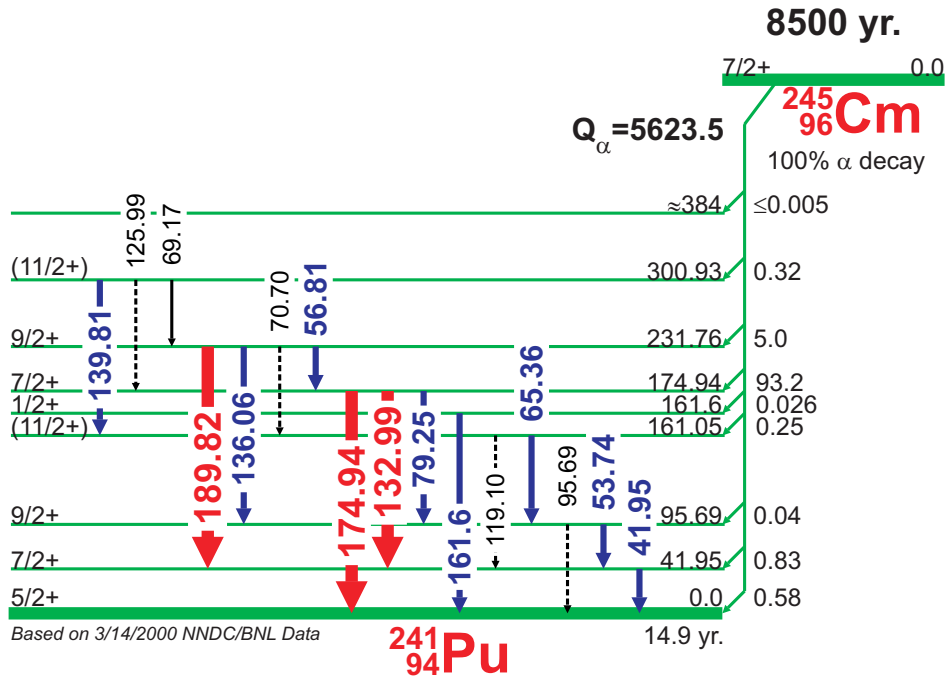


²⁴⁵Cm Decay Chain



²⁴⁵Cm (8500 yr.) Decay Scheme



GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: ²⁴⁵Cm

Half Life: 8500(100) yr.

E_γ (keV)	σE_γ	I_γ	σI_γ	Level	
41.95	0.03	0.350	0.017	41.95	α
53.74	0.06	0.067	0.004	95.69	α
56.81	0.06	0.036 1	0.001 9	231.76	α
65.36	0.06	0.011	0.004	161.05	α
69.17	0.06	0.007	0.003	300.93	α
70.70	0.13			231.76	α
79.25	0.06	0.150	0.009	174.94	α
89.58	0.06	0.022	0.003		α
93.82	0.06	0.036	0.004		α
95.69	0.07	0.008	0.003	95.69	α
119.10	0.11	0.002 5	0.002 5	161.05	α
125.99	0.09			300.93	α
132.99	0.03	2.77	0.14	174.94	α
136.06	0.06	0.112	0.007	231.76	α
139.81	0.06	0.006	0.002	300.93	α
161.6	0.1	0.009	0.004	161.6	α
165.3	0.1	0.009	0.004		α
174.94	0.04	9.50		174.94	α
185.8	0.1	0.010	0.004		α
189.82	0.06	0.193	0.012	231.76	α
210.6	0.2	0.007	0.002		α
232.7	0.2	0.015	0.004		α

E_γ , σE_γ , I_γ , σI_γ , Levels from ENSDF Database as of August 8, 2000

① These I_γ are per 100 Decays of ²⁴⁵Cm.

② For total uncertainty add 7.4% systematic component in quadrature, based on the normalization factor 0.095(7)

