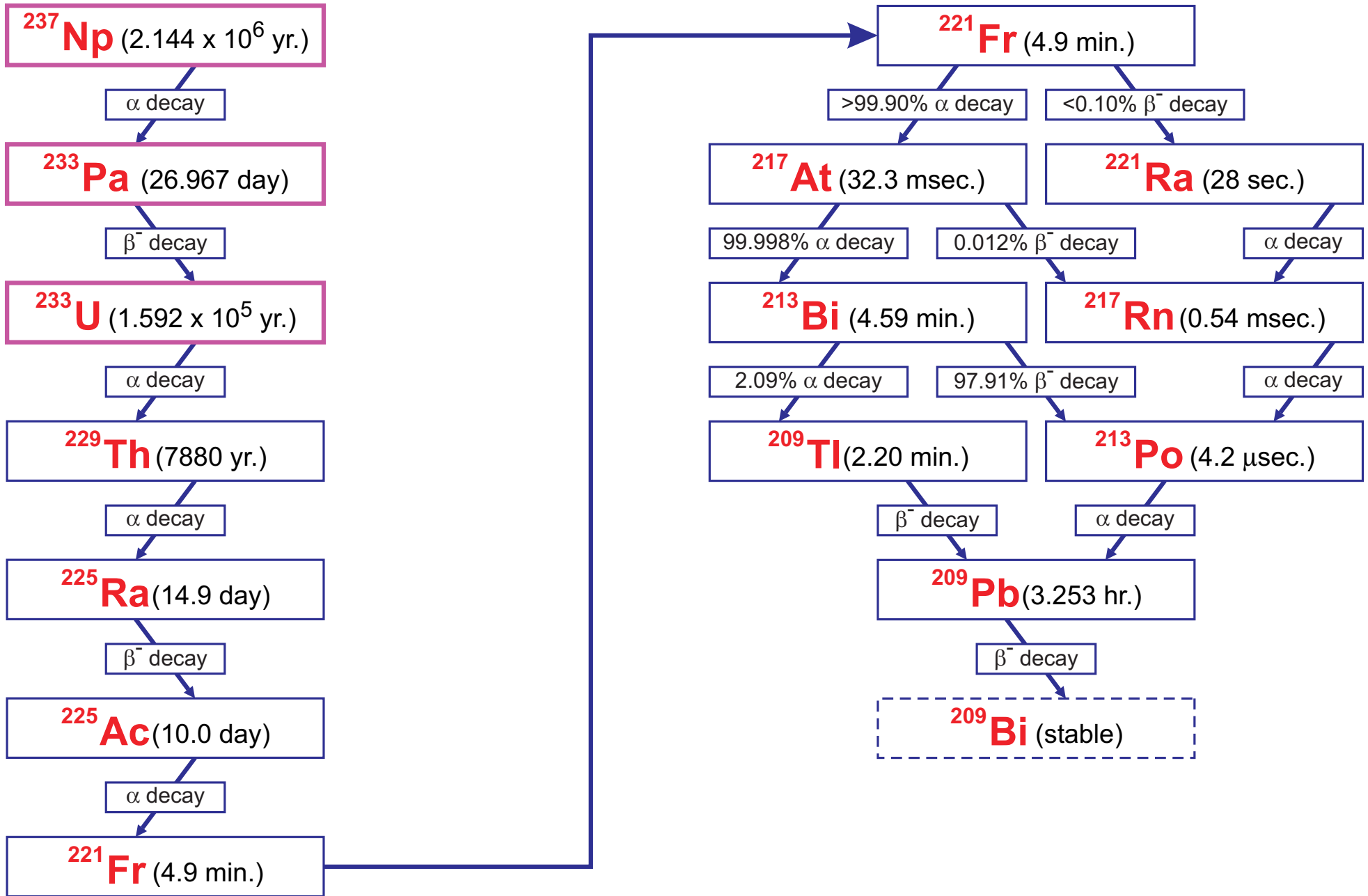
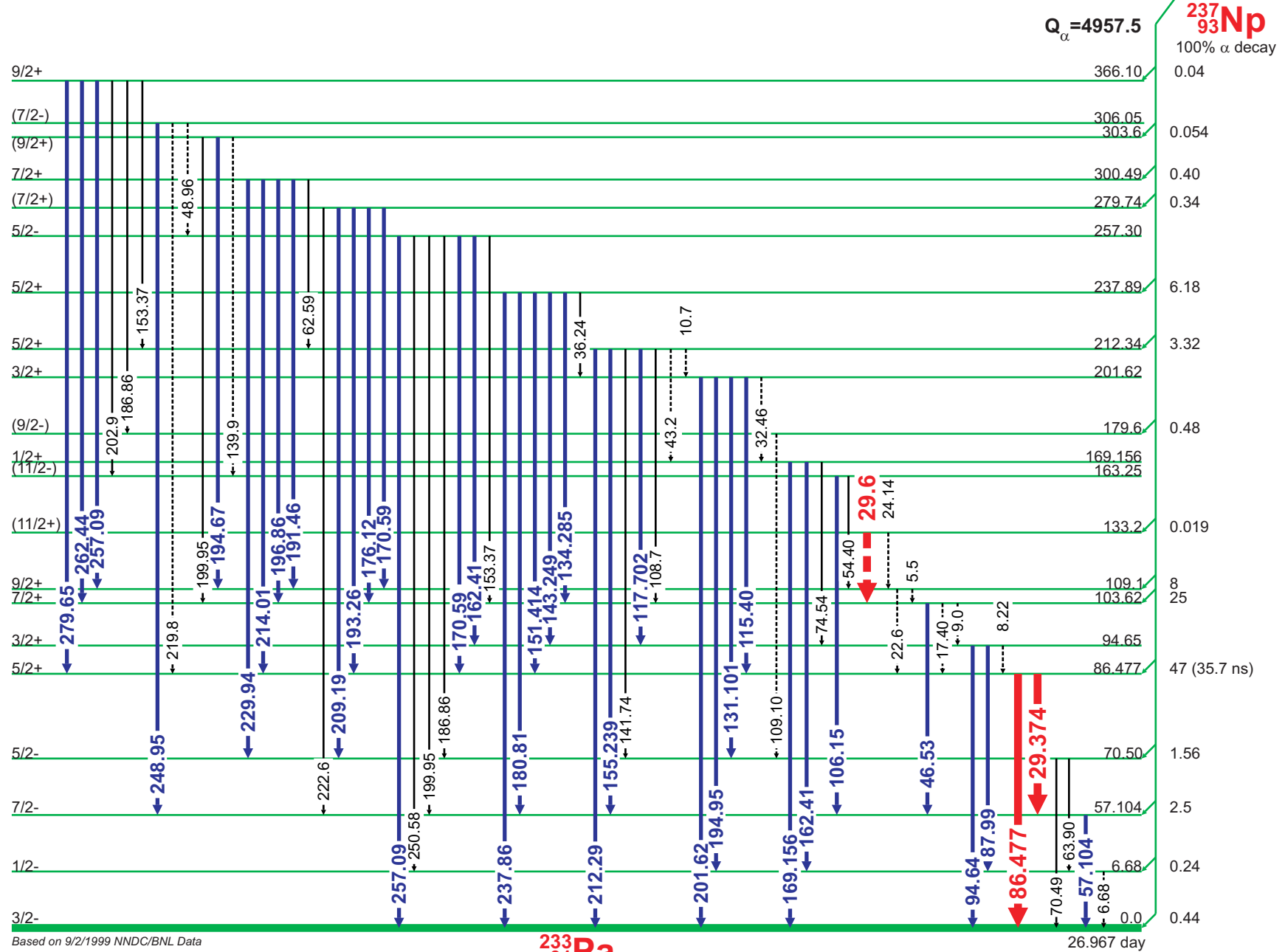


²³⁷Np Decay Chain



²³⁷Np (2.14x10⁶ yr.) Decay Scheme

2.14x10⁶ yr.
5/2+ 0.0



²³³Pa

26.967 day



GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: ^{237}Np
 E_γ , σE_γ , I_γ , σI_γ , Levels- from ENSDF Database as of September 2, 1999
Half Life: $2.144 \times 10^6(7)$ yr.

E_γ (keV)	σE_γ	I_γ	σI_γ	Level	
6.68				6.68	α
8.22	0.05			94.65	α
9.0				103.62	α
10.7				212.34	α
17.40	0.05			103.62	α
22.6				109.1	α
24.14	0.10			133.2	α
29.374	0.020	15.0	1.0	86.477	α
29.6				133.2	α
32.46				201.62	α
36.24	0.10			237.89	α
43.2				212.34	α
46.53	0.06	0.11	0.01	103.62	α
48.96	0.10			306.05	α
54.40	0.10			163.25	α
57.104	0.020	0.39	0.01	57.104	α
62.59	0.10	0.006	0.003	300.49	α
63.90	0.10	0.012	0.002	70.5	α
70.49	0.10	0.012	0.003	70.5	α
74.54	0.10	0.011	0.003	169.156	α
86.477	0.010	12.4	0.4	86.477	α
87.99	0.03	0.14	0.01	94.65	α
94.64	0.05	0.6	0.2	94.65	α
106.15	0.25	0.053	0.005	163.25	α
108.7		0.068	0.015	212.34	α
109.10	0.10			179.6	α
115.40	0.35	0.0026	0.0008	201.62	α
117.702	0.020	0.16	0.01	212.34	α
131.101	0.025	0.085	0.009	201.62	α
134.285	0.020	0.067	0.007	237.89	α
139.9	0.1	0.005	\approx	303.6	α
141.74	0.10			212.34	α
143.249	0.020	0.43	0.02	237.89	α
151.414	0.020	0.232	0.012	237.89	α

E_γ (keV)	σE_γ	I_γ	σI_γ	Level	
153.37		0.0050	0.0010	257.3	α
153.37	0.10			366.10	α
155.239	0.020	0.092	0.009	212.34	α
162.41				257.3	α
162.41	0.08	0.032	0.004	169.156	α
169.156	0.020	0.073	0.007	169.156	α
170.59				257.3	α
170.59	0.06	0.020	0.004	279.74	α
176.12	0.06	0.018	0.003	279.74	α
180.81	0.10	0.020	0.004	237.89	α
186.86				257.3	α
186.86	0.35	0.003	0.003	366.10	α
191.46	0.05	0.025	0.004	300.49	α
193.26	0.05	0.049	0.005	279.74	α
194.67	0.20			303.6	α
194.95	0.03	0.184	0.010	201.62	α
196.86	0.05	0.020	0.003	300.49	α
199.95				257.3	α
199.95	0.06	0.004	0.001	303.6	α
201.62	0.05	0.044	0.005	201.62	α
202.9	0.2	0.0048	0.0019	366.10	α
209.19	0.05	0.016	0.002	279.74	α
212.29	0.05	0.155	0.010	212.34	α
214.01	0.05	0.045	0.009	300.49	α
219.8				306.05	α
222.6	0.2	0.0020	0.0010	279.74	α
229.94	0.05	0.014	0.004	300.49	α
237.86	0.02	0.063	0.007	237.89	α
248.95	0.10	0.0050	0.0014	306.05	α
250.58				257.3	α
257.09				257.3	α
257.09	0.20	0.0064	0.0014	366.10	α
262.44	0.20	0.0068	0.0014	366.10	α
279.65	0.20	0.002	0.002	366.10	α

① These I_γ are per 100 Decays of ^{237}Np .

② Normalization factor is 1.00 and its uncertainty is taken to be 0.0.

