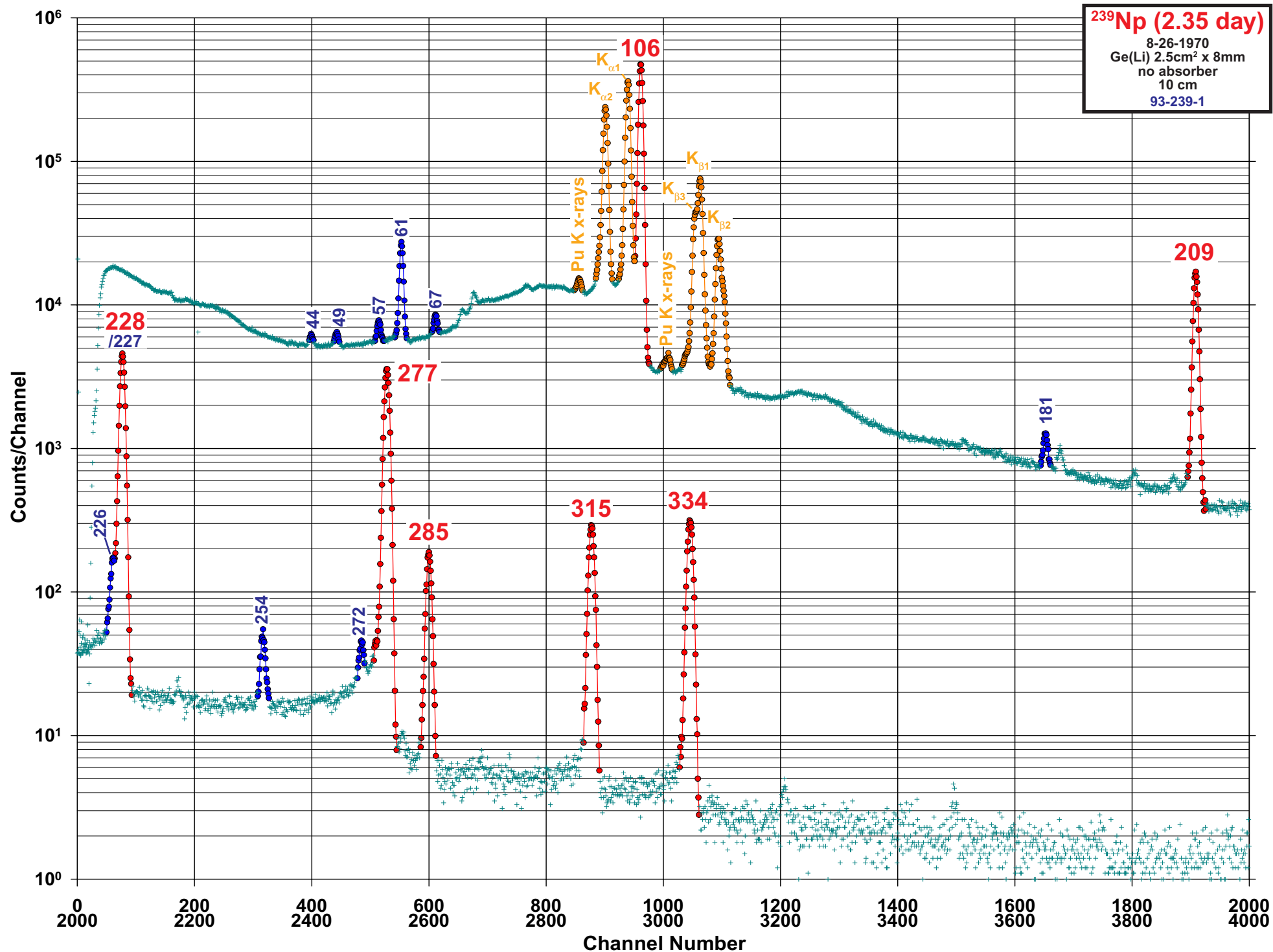
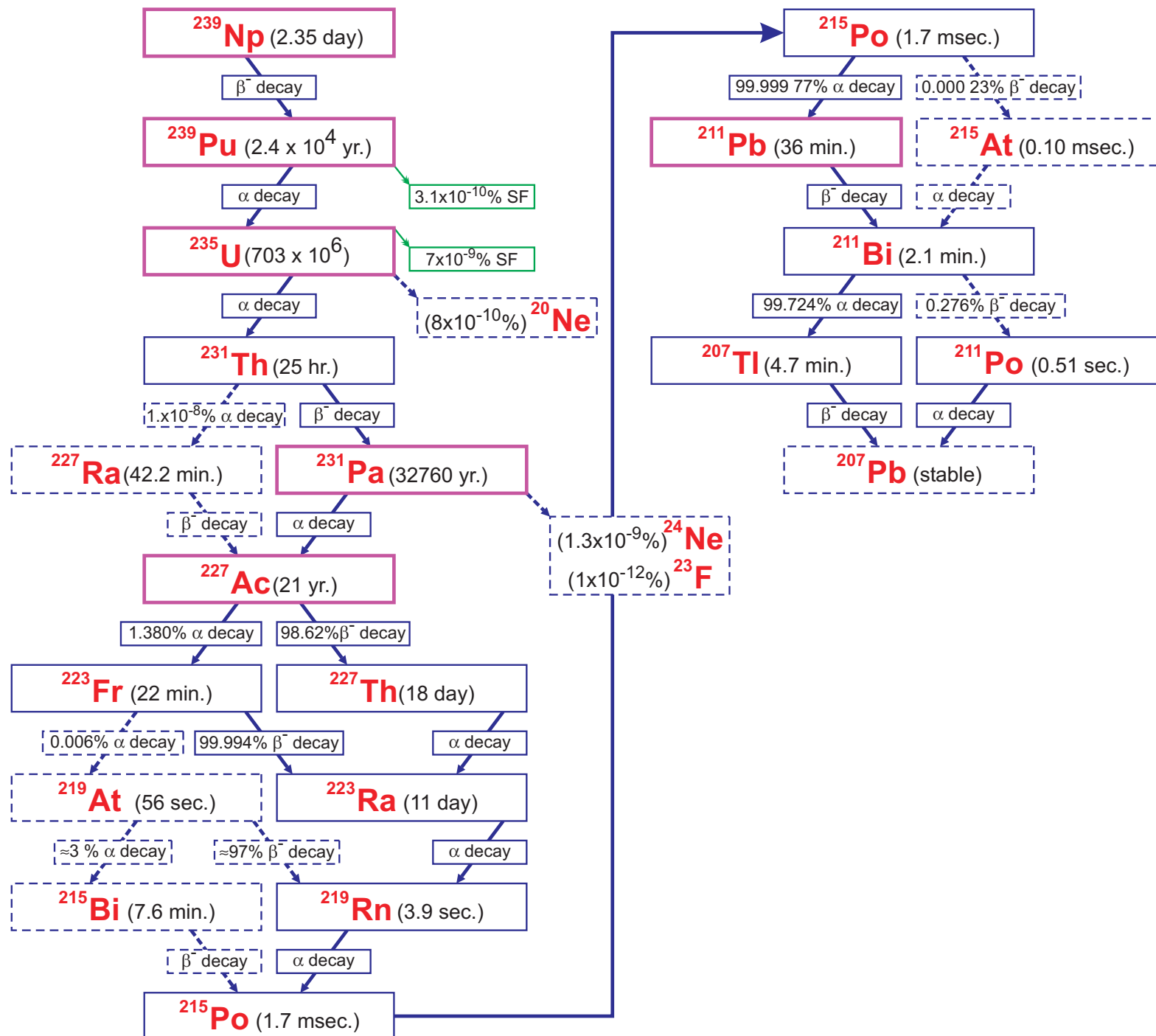
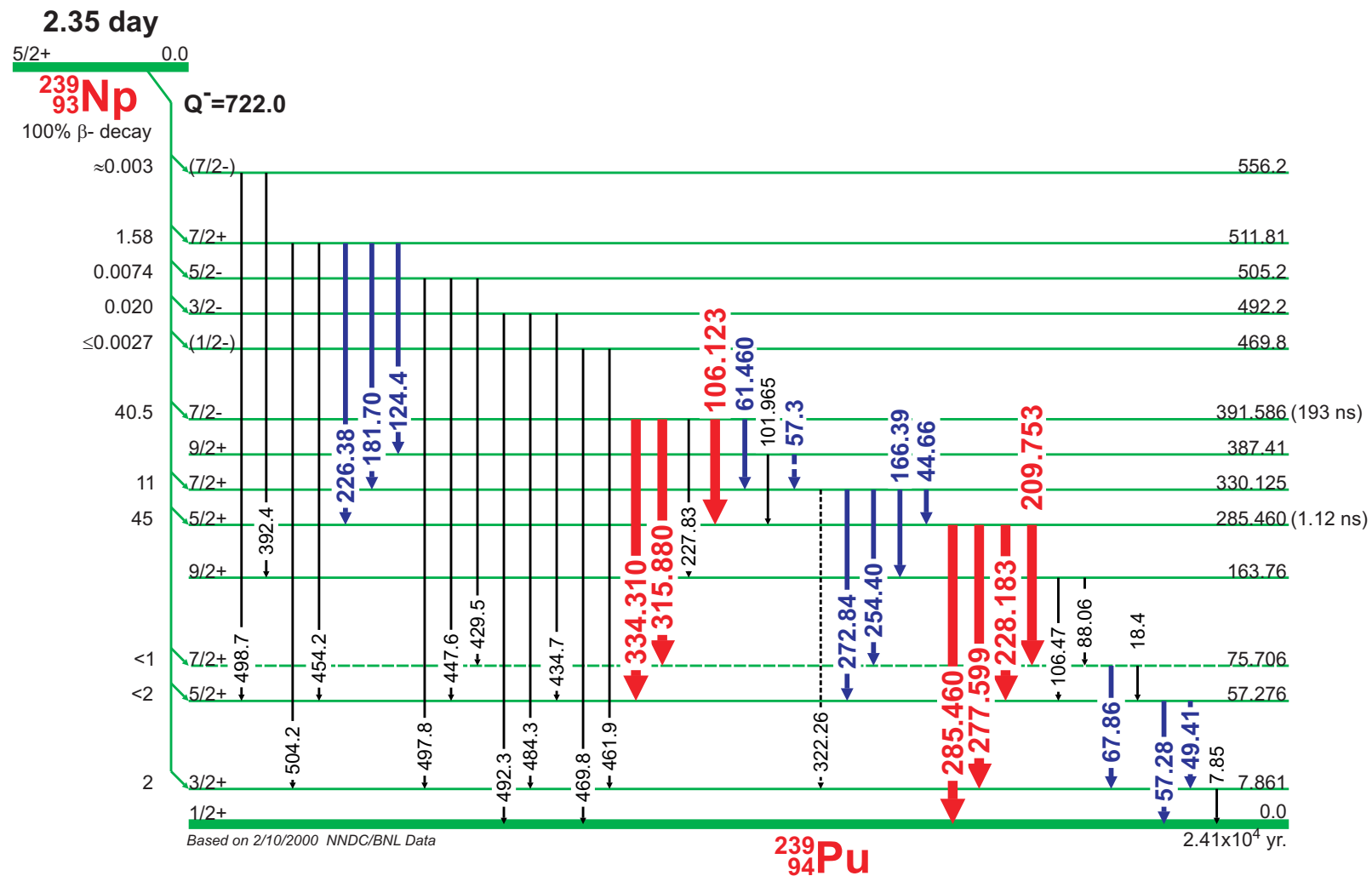




^{239}Np Decay Chain

^{239}Np (2.35 day) Decay Scheme



GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: ²³⁹Np

E_γ σE_γ I_γ σI_γ Levels- from ENSDF Database as of August 5, 1999

Half Life: 2.3565(4) day

E_γ (keV)	σE_γ	I_γ	σI_γ	Level	
7.85				7.861	β^-
18.4				75.706	β^-
44.66	0.02	0.13	0.01	330.125	β^-
49.41	0.02	0.13	0.02	57.276	β^-
57.28		0.130	0.007	57.276	β^-
57.3		0.004 8	calculated	387.41	β^-
61.460	0.002	1.29	0.02	391.586	β^-
67.86	0.02	0.092	0.023	75.706	β^-
88.06	0.03	0.006	0.002	163.76	β^-
101.965	0.013	0.000 8	calculated	387.41	β^-
106.123	0.002	27.2	0.4	391.586	β^-
106.47	0.04	0.049	0.008	163.76	β^-
124.4		0.01	$\approx$	511.81	β^-
166.39	0.06	0.017	0.007	330.125	β^-
181.70	0.03	0.081	0.004	511.81	β^-
209.753	0.002	3.42	0.05	285.460	β^-
226.38	0.02	0.28	0.02	511.81	β^-
227.83	calculated	0.51	calculated	391.586	β^-
228.183	0.001	10.76	0.18	285.460	β^-

E_γ (keV)	σE_γ	I_γ	σI_γ	Level	
254.40	0.03	0.110	0.006	330.125	β^-
272.84	0.03	0.077	0.004	330.125	β^-
277.599	0.001	14.38	0.21	285.460	β^-
285.460	0.002	0.79	0.02	285.460	β^-
315.880	0.003	1.60	0.03	391.586	β^-
322.26	calculated	0.005 2	calculated	330.125	β^-
334.310	0.002	2.07	0.03	391.586	β^-
392.4	0.5	0.001 6		556.2	β^-
429.5	0.5	0.003 9		505.2	β^-
434.7	0.5	0.013		492.2	β^-
447.6	0.5	0.000 26		505.2	β^-
454.2	0.5	0.000 82		511.81	β^-
461.9	0.5	0.001 6		469.8	β^-
469.8	0.5	0.001 1		469.8	β^-
484.3	0.5	0.001 0		492.2	β^-
492.3	0.5	0.006 0		492.2	β^-
497.8	0.5	0.003 2		505.2	β^-
498.7	$\approx$	0.001	$\approx$	556.2	β^-
504.2	0.5	0.000 78		511.81	β^-

- ① These I_γ are per 100 Decays of ²³⁹Np.
- ② Normalization factor is 1.0, and its uncertainty is taken to be 0.0.

