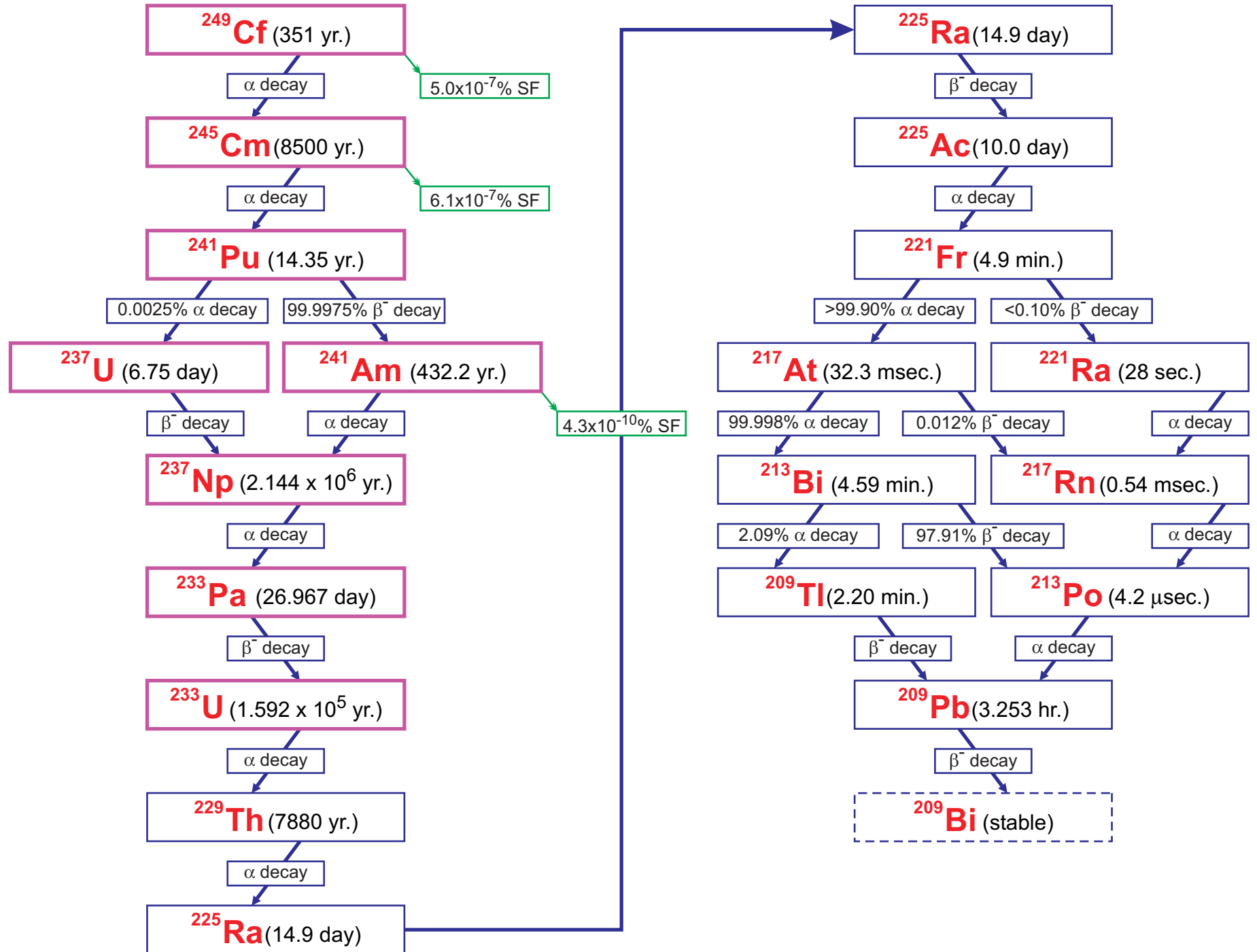
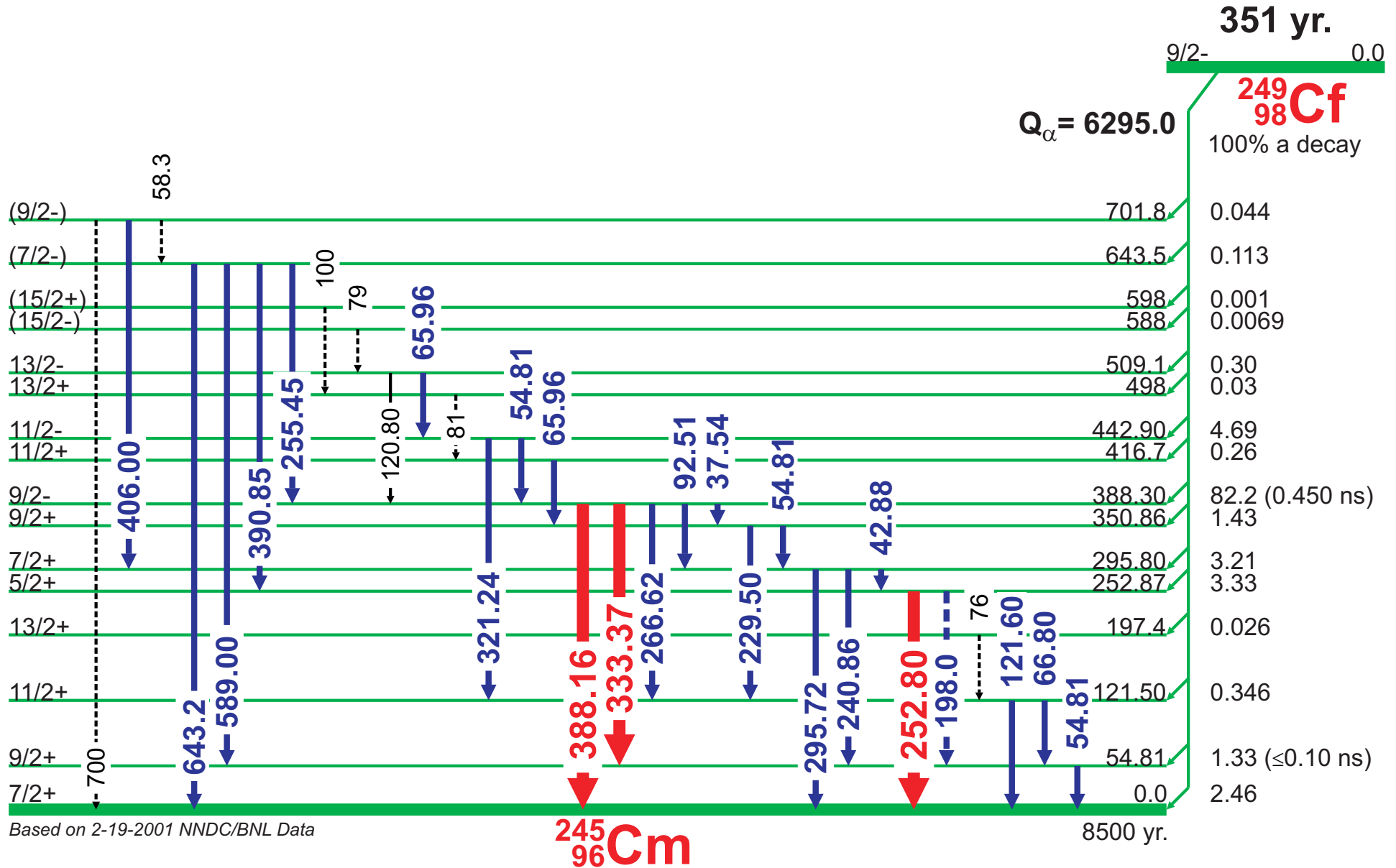


## Simplified Decay Chain



## <sup>249</sup>Cf (351 yr.) Decay Scheme



## GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: **<sup>249</sup>Cf**E<sub>γ</sub>, σE<sub>γ</sub>, I<sub>γ</sub>, σI<sub>γ</sub>, Levels- from ENSDF Database as of February 19, 2001

Half Life: 351(2) yr.

E <sub>γ</sub> (keV)	σE <sub>γ</sub>	<sup>①</sup> I <sub>γ</sub>	<sup>②</sup> σI <sub>γ</sub>	Level	α	E <sub>γ</sub> (keV)	σE <sub>γ</sub>	<sup>①</sup> I <sub>γ</sub>	<sup>②</sup> σI <sub>γ</sub>	Level	α
37.54	0.03	0.014 8	0.000 7	388.30	α	255.45	0.03	0.026	0.003	643.5	α
42.88	0.02	0.036	0.002	295.80	α	266.62	0.02	0.69	0.03	388.30	α
54.81				350.86	α	267.30	0.10				α
54.81		0.035	0.008	442.90	α	295.72	0.02	0.136	0.006	295.80	α
54.81	0.05	0.163	0.012	54.81	α	321.24	0.03	0.063	0.003	442.90	α
58.3				701.8	α	<b>333.37</b>	<b>0.02</b>	<b>14.6</b>	<b>0.4</b>	<b>388.30</b>	<b>α</b>
65.96				509.1	α	358.80	0.05	0.007	<		α
65.96	0.02	0.005	0.003	416.7	α	365.2	1.0				α
66.80	0.02	0.023	0.001	121.50	α	<b>388.16</b>	<b>0.02</b>	<b>66</b>		<b>388.30</b>	<b>α</b>
76	1	0.003	<	197.4	α	390.85	0.05	0.017	0.002	643.5	α
79				588	α	406.00	0.10	0.010 8	0.000 8	701.8	α
81				498	α	589.00	0.10	0.002 4	0.000 4	643.5	α
86	1	0.003	<		α	643.2	0.3	0.013	0.005	643.5	α
92.51	0.02	0.326	0.011	388.30	α	670		0.000 7	≈		α
100				598	α	680		0.005			α
120.80	0.10	0.020	0.002	509.1	α	700	≈	0.006		701.8	α
121.60	0.04	0.036	0.003	121.50	α	718.5	0.3	0.008 4	0.000 8		α
198.0	0.1	0.013	0.002	252.87	α	740	≈	0.007			α
229.50	0.10	0.040		350.86	α	760	≈	0.02			α
240.86	0.02	0.208	0.008	295.80	α	770	≈	0.03	≈		α
<b>252.80</b>	<b>0.02</b>	<b>2.50</b>	<b>0.08</b>	<b>252.87</b>	<b>α</b>	990	≈	0.000 6	≈		α

① These I<sub>γ</sub> are per 100 Decays of <sup>249</sup>Cf.

② For total uncertainty add systematic component of 3% in quadrature, based on the normalization factor 0.66(2)

