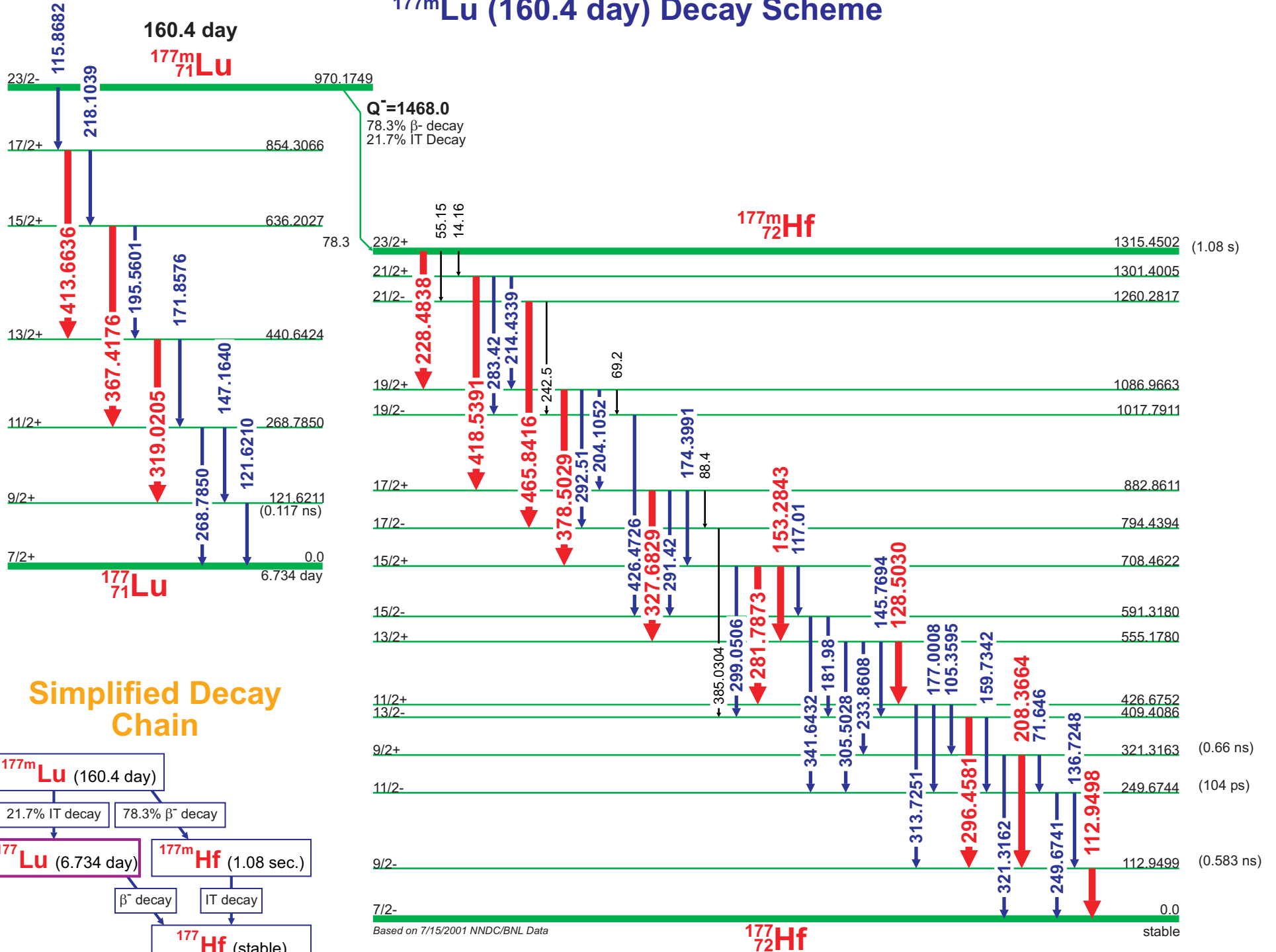
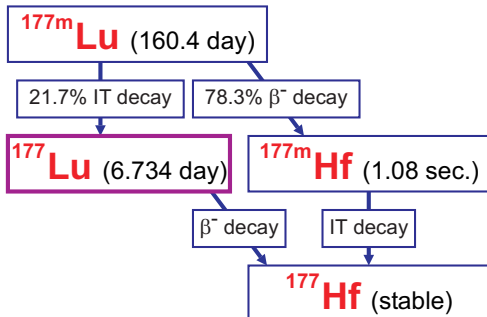


^{177m}Lu (160.4 day) Decay Scheme



Simplified Decay Chain



Based on 7/15/2001 NNDC/BNL Data

GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: **^{177m}Lu** E_γ , σE_γ , I_γ , σI_γ , Levels- from ENSDF Database as of April 17, 2001

Half Life: 160.4(3) day

E_γ (keV)	σE_γ	I_γ	σI_γ	Level	
14.16				1,315.450 2	β^-
55.15	0.02	1.78	0.10	1,315.450 2	β^-
69.2		0.010	0.004	1,086.966 3	β^-
71.646	0.002	0.90	0.04	321.316 3	β^-
88.4		0.037	0.009	882.861 1	β^-
105.359 5	0.000 6	12.3	0.2	426.675 2	β^-
112.949 8	0.000 5	20.4	0.4	112.949 9	β^-
115.868 2	0.002 3	0.65	0.04	970.174 9	IT
117.01	0.04	0.19	0.02	708.462 2	β^-
121.621 0	0.000 5	5.91	0.15	121.621 1	IT
128.503 0	0.000 5	15.5	0.3	555.178 0	β^-
136.724 8	0.001 2	1.40	0.05	249.674 4	β^-
145.769 4	0.002 0	0.91	0.04	555.178 0	β^-
147.164 0	0.000 7	3.51	0.14	268.785	IT
153.284 3	0.000 5	16.9	0.3	708.462 2	β^-
159.734 2	0.001 7	0.53	0.02	409.408 6	β^-
171.857 6	0.000 8	4.8	0.1	440.642 4	IT
174.399 1	0.000 5	12.61	0.24	882.861 1	β^-
177.000 8	0.000 5	3.4	0.1	426.675 2	β^-
181.98	0.10	0.124	0.012	591.318 0	β^-
195.560 1	0.002 0	0.84	0.04	636.202 7	IT
204.105 2	0.000 5	13.8	0.3	1,086.966 3	β^-
208.366 4	0.000 5	57.7	1.1	321.316 3	β^-
214.433 9	0.000 6	6.59	0.16	1,301.400 5	β^-
218.103 9	0.000 7	3.28	0.12	854.306 6	IT

E_γ (keV)	σE_γ	I_γ	σI_γ	Level	
228.483 8	0.000 6	37.0	0.7	1,315.450 2	β^-
233.860 8	0.000 8	5.57	0.14	555.178 0	β^-
242.5		0.037	0.012	1,260.281 7	β^-
249.674 1	0.001 0	6.1	0.2	249.674 4	β^-
268.785 0	0.001 0	3.4	0.1	268.785	IT
281.787 3	0.000 9	14.1	0.3	708.462 2	β^-
283.42	0.13	0.40	0.07	1,301.400 5	β^-
291.42	0.10	1.02	0.07	882.861 1	β^-
292.51	0.10	0.82	0.05	1,086.966 3	β^-
296.458 1	0.000 6	5.07	0.14	409.408 6	β^-
299.050 6	0.001 7	1.80	0.05	708.462 2	β^-
305.502 8	0.001 4	1.82	0.05	555.178 0	β^-
313.725 1	0.002 1	1.26	0.05	426.675 2	β^-
319.020 5	0.000 8	10.5	0.3	440.642 4	IT
321.316 2	0.001 6	1.2	0.1	321.316 3	β^-
327.682 9	0.000 7	18.1	0.5	882.861 1	β^-
341.643 2	0.001 0	1.7	0.1	591.318 0	β^-
367.417 6	0.001 0	3.15	0.11	636.202 7	IT
378.502 9	0.000 7	29.7	1.2	1,086.966 3	β^-
385.030 4	0.000 9	3.1	0.1	794.439 4	β^-
413.663 6	0.000 7	17.4	0.6	854.306 6	IT
418.539 1	0.000 7	21.3	0.8	1,301.400 5	β^-
426.472 6	0.002 4	0.43	0.02	1,017.791 1	β^-
465.841 6	0.001 0	2.3	0.1	1,260.281 7	β^-

① These I_γ are per 100 Decays of ^{177m}Lu ② For total uncertainty of β^- decay add systematic component of 0.831% in quadrature, based on the normalization factor 0.0602(5)

② For total uncertainty of IT decay add systematic component of 2.83% in quadrature, based on the normalization factor 0.0601(17)

