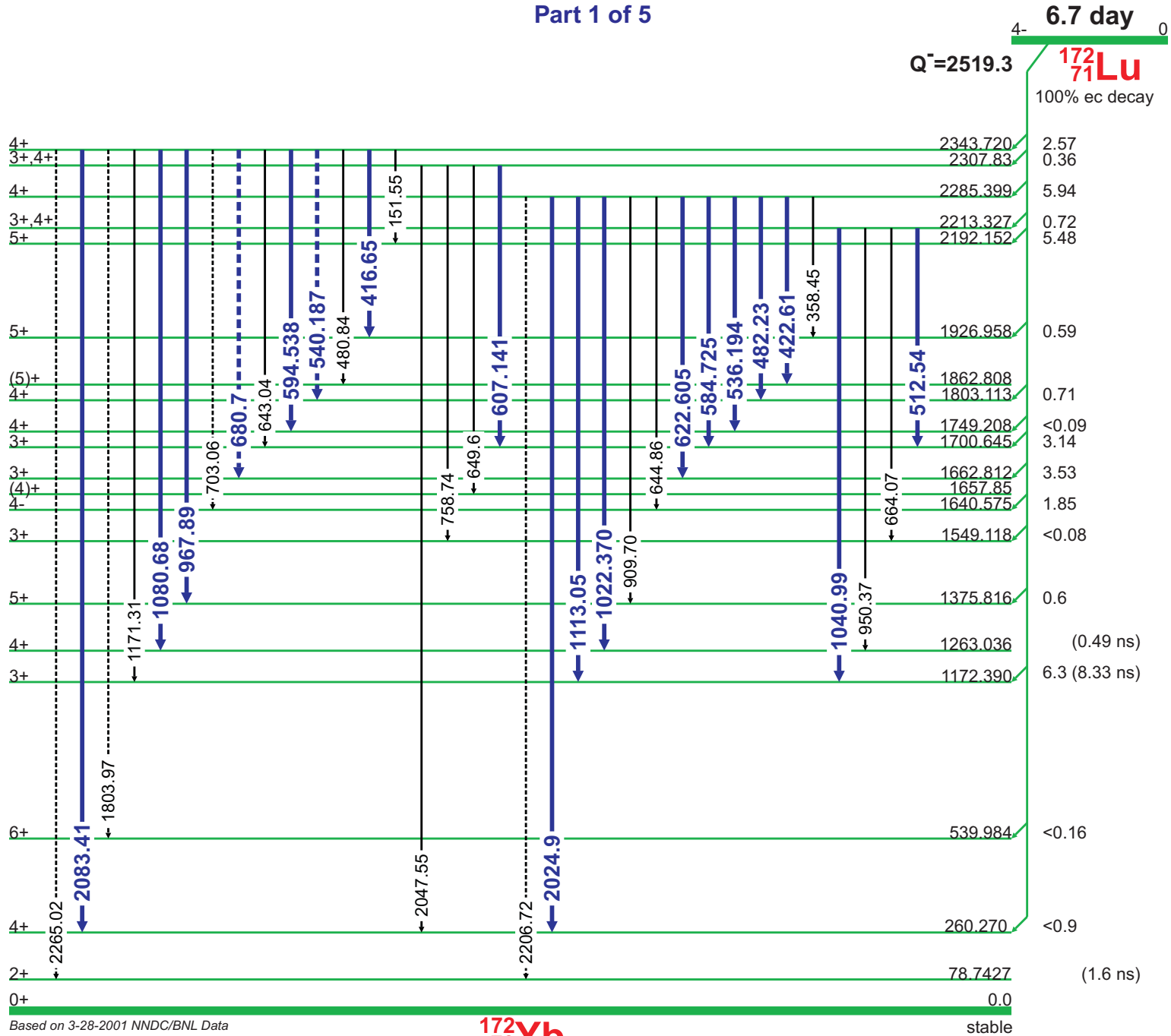


¹⁷²Lu (6.7 day) Decay Scheme

Part 1 of 5



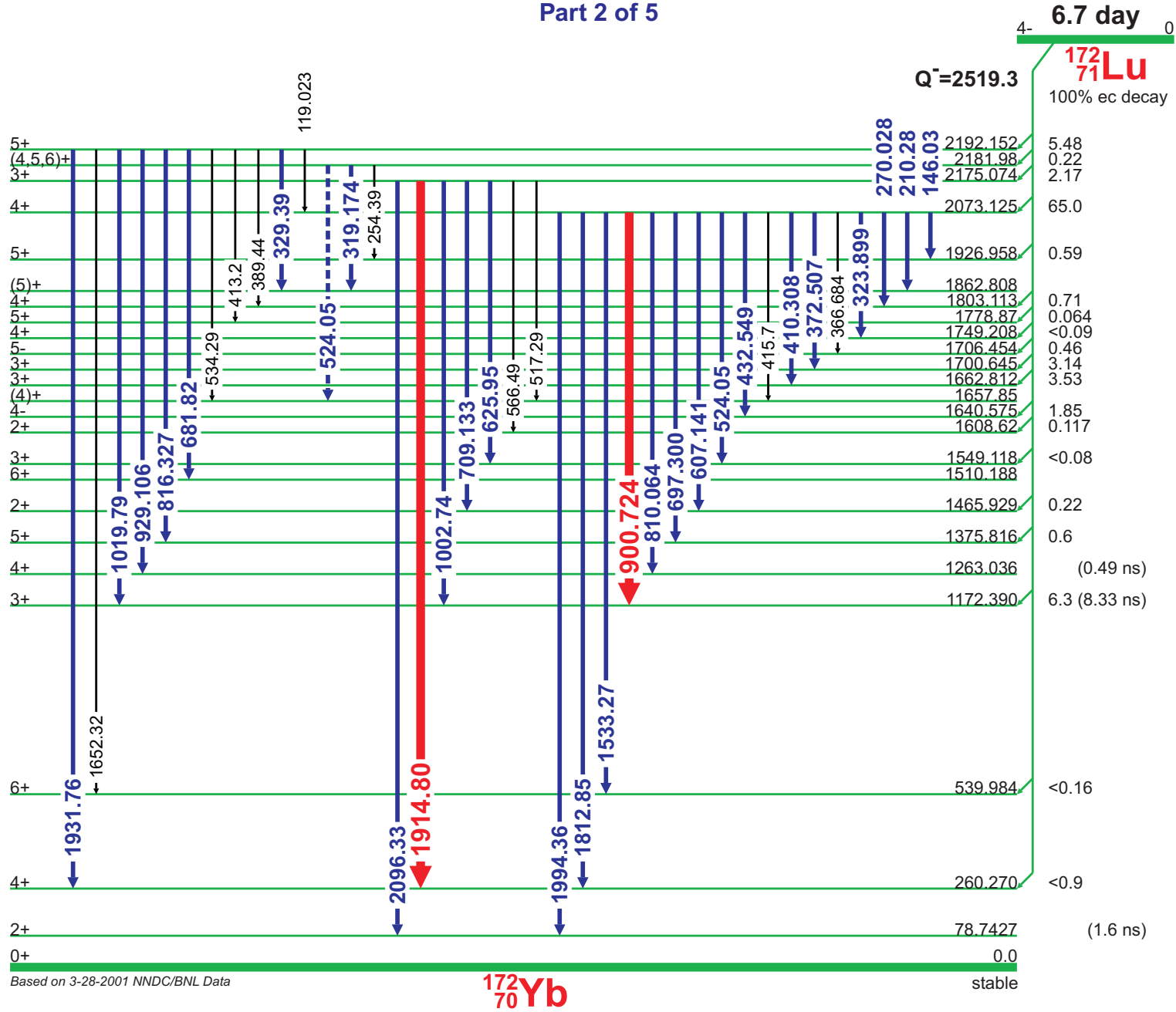
¹⁷²Yb

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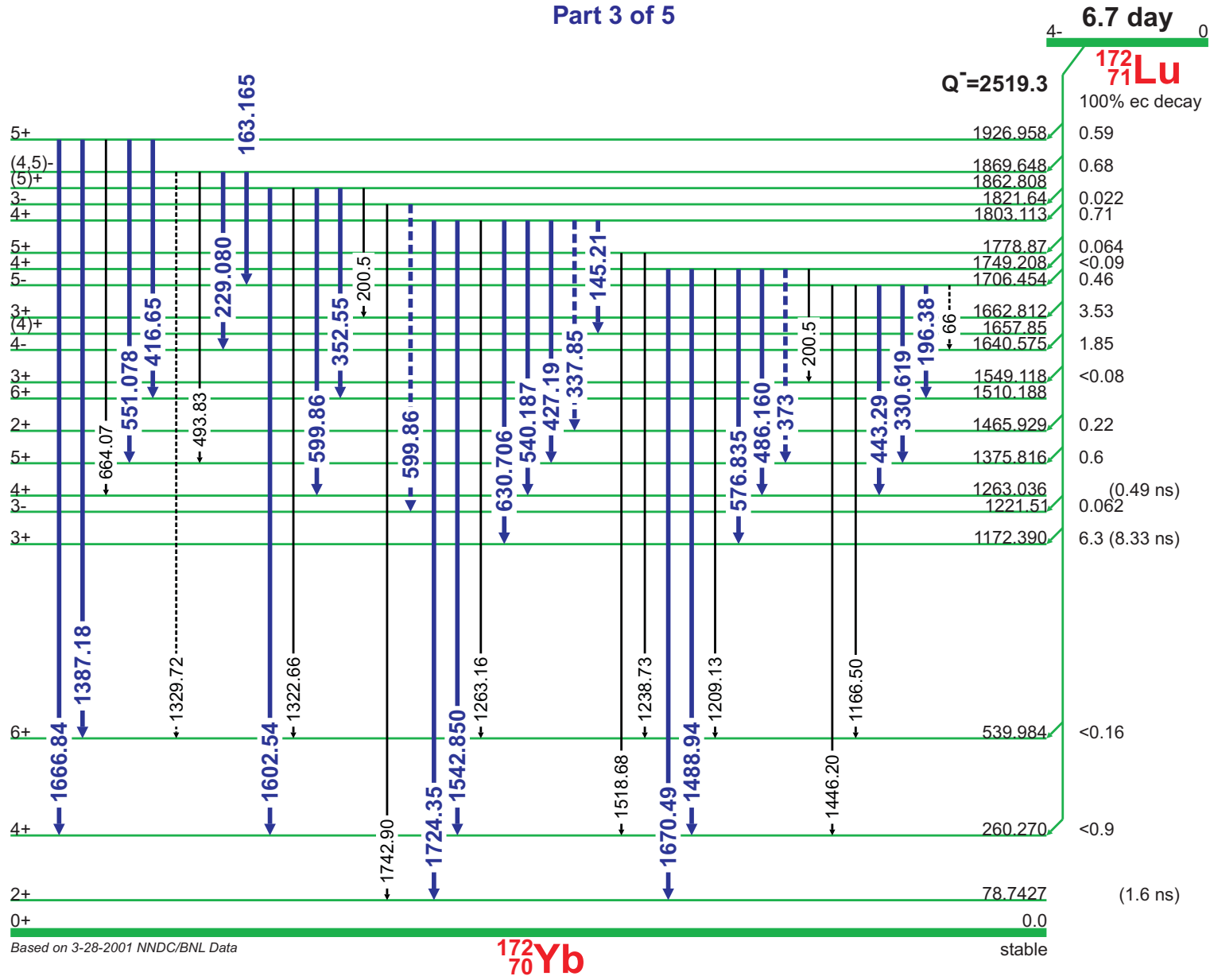
¹⁷²Lu (6.7 day) Decay Scheme

Part 2 of 5



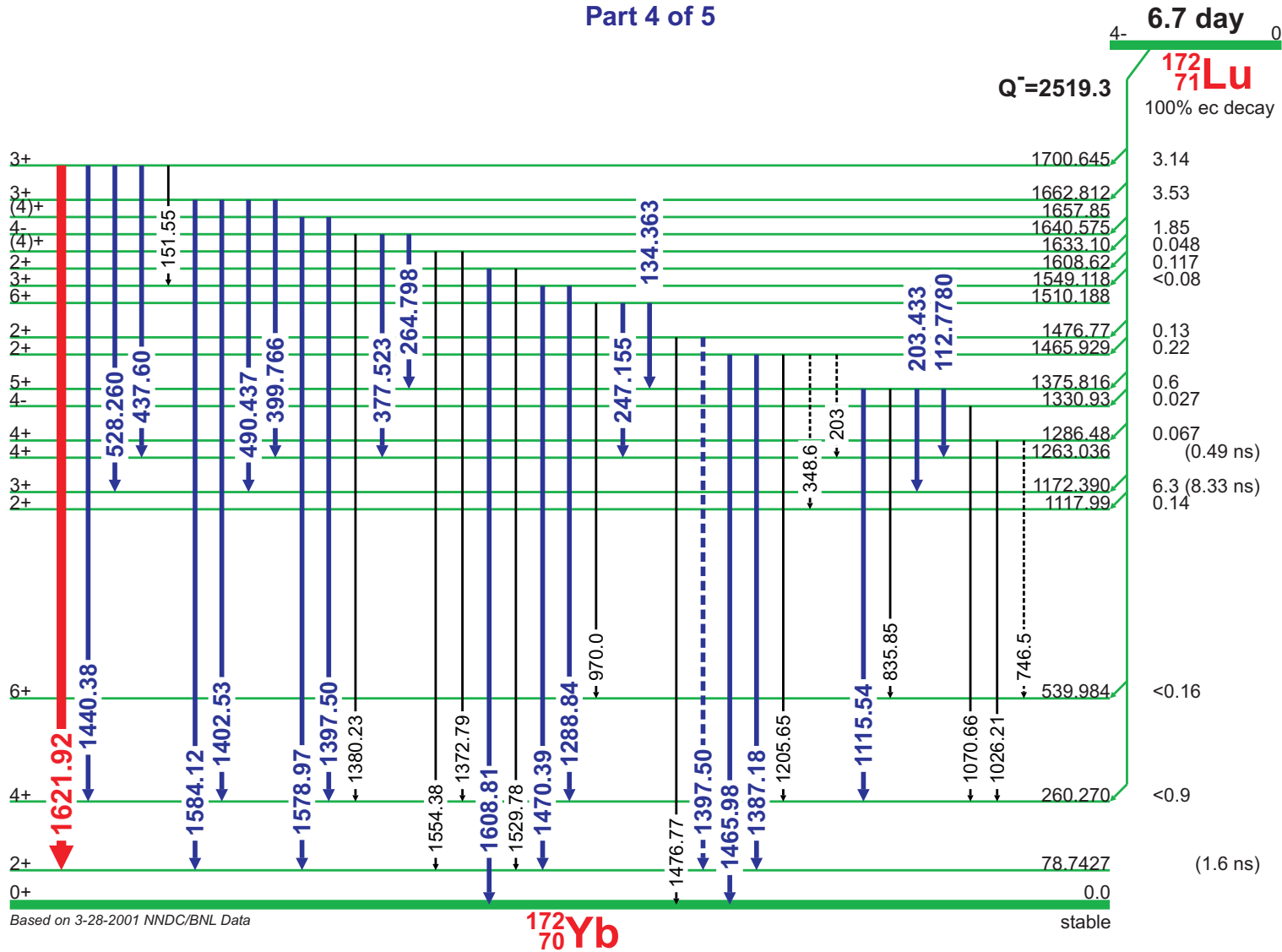
¹⁷²Lu (6.7 day) Decay Scheme

Part 3 of 5



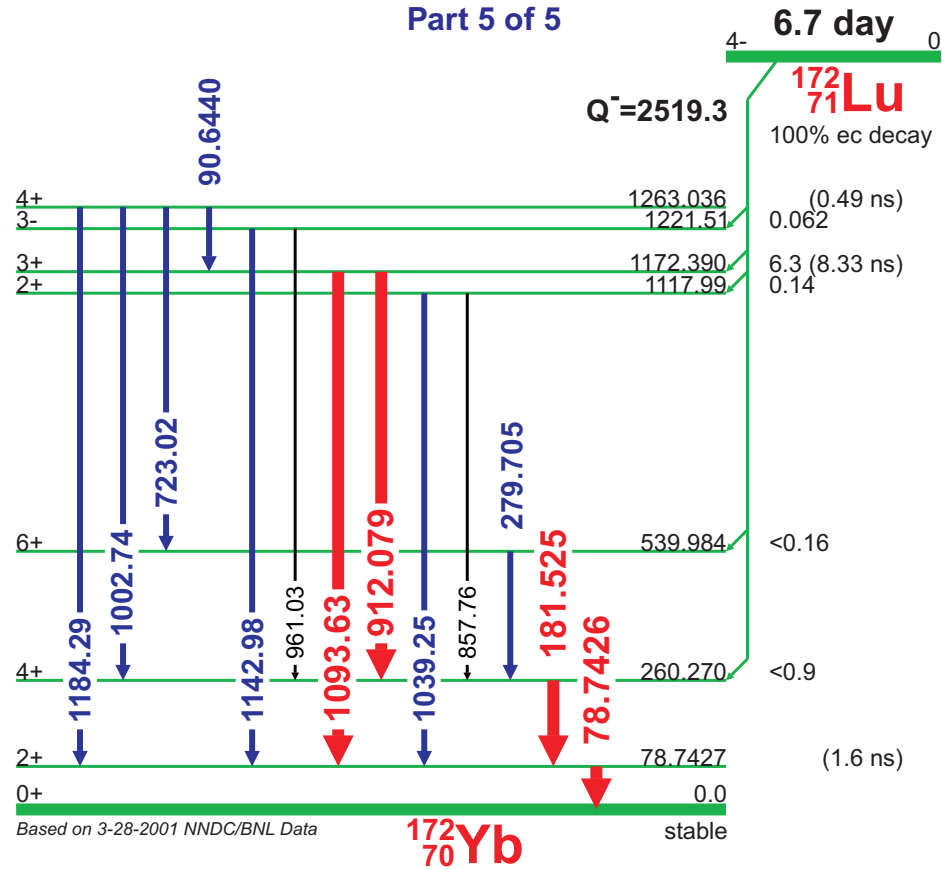
¹⁷²Lu (6.7 day) Decay Scheme

Part 4 of 5



¹⁷²Lu (6.7 day) Decay Scheme

Part 5 of 5



GAMMA-RAY ENERGIES AND INTENSITIES (page 1 of 3)

Nuclide: **¹⁷²Lu**E_γ σE_γ I_γ σI_γ Levels- from ENSDF Database as of March 28, 2001

Half Life: 6.7(3) day

E _γ (keV)	σE _γ	I _γ	σI _γ	Level	
66				1,706.454	ec
78.742 6	0.000 6	10.6	0.3	78.742 7	ec
90.644 0	0.001 9	4.54	0.16	1,263.036	ec
112.778 0	0.002 7	1.27	0.04	1,375.816	ec
119.023	0.015	0.030	0.006	2,192.152	ec
134.363	0.018	0.064	0.004	1,510.188	ec
145.21	0.05	0.037	0.006	1,803.113	ec
146.03	0.04	0.073	0.010	2,073.125	ec
151.55	0.06	0.040	0.007	2,343.720	ec
151.55	0.06	0.040	0.007	1,700.645	ec
155.87	0.07	0.020	0.004		ec
163.165	0.020	0.067	0.004	1,869.648	ec
174.671	0.019	0.113	0.005		ec
181.525	0.005	20.6	0.4	260.270	ec
196.38	0.04	0.101	0.006	1,706.454	ec
200.5	0.4	0.049	0.010	1,862.808	ec
200.5	0.4	0.049	0.010	1,749.208	ec
203				1,465.929	ec
203.433	0.013	5.02	0.11	1,375.816	ec
210.28	0.03	0.088	0.007	2,073.125	ec
229.080	0.010	0.356	0.009	1,869.648	ec
233.46	0.20	0.34	0.09		ec
247.155	0.016	0.58	0.03	1,510.188	ec
251.46	0.15	0.033	0.006		ec
254.39	0.24	0.056	0.016	2,181.98	ec
264.798	0.011	0.75	0.02	1,640.575	ec
270.028	0.008	1.93	0.04	2,073.125	ec
279.705	0.012	1.19	0.04	539.984	ec
319.174	0.022	0.134	0.009	2,181.98	ec
323.899	0.015	1.50	0.03	2,073.125	ec
329.39	0.05	0.136	0.011	2,192.152	ec
330.619	0.021	0.52	0.04	1,706.454	ec
337.85	0.09	0.046	0.007	1,803.113	ec
348.6	0.4	0.015	0.008	1,465.929	ec
348.83	0.22	0.009	0.007		ec

E _γ (keV)	σE _γ	I _γ	σI _γ	Level	
352.55	0.04	0.064	0.009	1,862.808	ec
358.45	0.03	0.121	0.006	2,285.399	ec
366.684	0.024	0.288	0.011	2,073.125	ec
372.507	0.012	2.66	0.05	2,073.125	ec
373				1,749.208	ec
377.523	0.012	3.35	0.06	1,640.575	ec
389.44	0.05	0.070	0.008	2,192.152	ec
399.766	0.015	0.551	0.014	1,662.812	ec
410.308	0.012	1.98	0.03	2,073.125	ec
413.2	0.3	0.038	0.014	2,192.152	ec
415.7	0.4	0.05	0.03	2,073.125	ec
416.65	0.08	0.086	0.010	2,343.720	ec
416.65	0.08	0.086	0.010	1,926.958	ec
422.61	0.03	0.137	0.006	2,285.399	ec
427.19	0.05	0.123	0.007	1,803.113	ec
432.549	0.013	1.64	0.04	2,073.125	ec
437.60	0.02	0.234	0.008	1,700.645	ec
443.29	0.04	0.139	0.008	1,706.454	ec
480.84	0.10	0.123	0.013	2,343.720	ec
482.23	0.04	0.58	0.04	2,285.399	ec
486.160	0.018	0.66	0.03	1,749.208	ec
490.437	0.014	1.91	0.06	1,662.812	ec
493.83	0.09	0.066	0.016	1,869.648	ec
512.54	0.05	0.196	0.014	2,213.327	ec
517.29	0.10	0.040	0.007	2,175.074	ec
524.05	0.04	0.224	0.010	2,073.125	ec
524.05	0.06			2,181.98	ec
528.260	0.014	4.04	0.08	1,700.645	ec
534.29	0.07	0.13	0.02	2,192.152	ec
536.194	0.019	0.64	0.04	2,285.399	ec
540.187	0.016	1.40	0.04	1,803.113	ec
540.187	0.016			2,343.720	ec
551.078	0.019	0.412	0.014	1,926.958	ec
566.49	0.05	0.077	0.007	2,175.074	ec
576.835	0.018	0.303	0.013	1,749.208	ec

① These I_γ are per 100 Decays of ¹⁷²Lu.

② For total uncertainty add systematic component of 4.0% in quadrature, based on the normalization factor 0.625(25)



GAMMA-RAY ENERGIES AND INTENSITIES (page 2 of 3)

Nuclide: **¹⁷²Lu**E_γ, σE_γ, I_γ, σI_γ Levels- from ENSDF Database as of March 28, 2001

Half Life: 6.7(3) day

E _γ (keV)	σ E _γ	^① I _γ	^② σ I _γ	Level	ec
584.725	0.017	0.336	0.010	2,285.399	ec
594.538	0.019	0.42	0.03	2,343.720	ec
596.75	0.15	0.064	0.014		ec
599.86	0.04	0.14	0.02	1,862.808	ec
599.86	0.04			1,821.64	ec
604.65	0.19	0.031	0.014		ec
607.141	0.018	0.49	0.05	2,307.83	ec
607.141	0.018	0.49	0.05	2,073.125	ec
622.605	0.022	0.161	0.012	2,285.399	ec
625.95	0.04	0.311	0.013	2,175.074	ec
630.706	0.017	0.44	0.02	1,803.113	ec
643.04	0.03	0.226	0.011	2,343.720	ec
644.86	0.06	0.118	0.009	2,285.399	ec
649.6	0.5	0.043	0.013	2,307.83	ec
664.07	0.05	0.108	0.008	2,213.327	ec
664.07	0.05	0.108	0.008	1,926.958	ec
680.7	0.4	0.11	0.04	2,343.720	ec
681.82	0.04	0.69	0.03	2,192.152	ec
697.300	0.016	6.13	0.11	2,073.125	ec
703.06	0.08	0.136	0.014	2,343.720	ec
709.133	0.017	0.82	0.03	2,175.074	ec
723.02	0.02	0.456	0.014	1,263.036	ec
746.5				1,286.48	ec
758.74	0.08	0.071	0.012	2,307.83	ec
810.064	0.015	16.6	0.3	2,073.125	ec
816.327	0.020	1.15	0.03	2,192.152	ec
835.85	0.07	0.131	0.008	1,375.816	ec
857.76	0.11	0.084	0.011	1,117.99	ec
900.724	0.020	29.8	0.4	2,073.125	ec
909.70	0.06	0.65	0.05	2,285.399	ec
912.079	0.017	15.3	0.3	1,172.390	ec
929.106	0.020	3.04	0.07	2,192.152	ec
950.37	0.07	0.057	0.010	2,213.327	ec
961.03	0.12	0.033	0.013	1,221.51	ec
967.89	0.05	0.190	0.009	2,343.720	ec

E _γ (keV)	σ E _γ	^① I _γ	^② σ I _γ	Level	ec
970.0	0.4	0.07	0.04	1,510.188	ec
990.75	0.15	0.08	0.04		ec
1,002.74	0.02	0.3	0.1	2,175.074	ec
1,002.74	0.02	5.3	0.1	1,263.036	ec
1,010.71	0.17	0.037	0.013		ec
1,012.6	0.3	0.031	0.013		ec
1,019.79	0.04	0.114	0.009	2,192.152	ec
1,022.370	0.021	1.41	0.04	2,285.399	ec
1,026.21	0.05	0.067	0.004	1,286.48	ec
1,039.25	0.11	0.070	0.006	1,117.99	ec
1,040.99	0.03	0.351	0.011	2,213.327	ec
1,055.4	0.4	0.014	0.006		ec
1,070.66	0.18	0.027	0.006	1,330.93	ec
1,080.68	0.04	0.91	0.03	2,343.720	ec
1,093.63	0.02	62.5	1.2	1,172.390	ec
1,113.05	0.05	1.65	0.08	2,285.399	ec
1,115.54	0.05	0.37	0.03	1,375.816	ec
1,125.22	0.04	0.106	0.005		ec
1,142.98	0.13	0.029	0.004	1,221.51	ec
1,148.5	0.3	0.014	0.006		ec
1,166.50	0.05	0.068	0.006	1,706.454	ec
1,171.31	0.11	0.025	0.006	2,343.720	ec
1,184.29	0.03	0.331	0.013	1,263.036	ec
1,205.65	0.13	0.029	0.008	1,465.929	ec
1,209.13	0.10	0.052	0.005	1,749.208	ec
1,238.73	0.08	0.058	0.007	1,778.87	ec
1,263.16	0.09	0.044	0.006	1,803.113	ec
1,288.84	0.03	0.193	0.008	1,549.118	ec
1,322.66	0.09	0.100	0.009	1,862.808	ec
1,329.72	0.07	0.035	0.004	1,869.648	ec
1,372.79	0.14	0.034	0.006	1,633.10	ec
1,380.23	0.10	0.041	0.014	1,640.575	ec
1,387.18	0.02	0.1	<	1,926.958	ec
1,387.18	0.02	0.87	0.02	1,465.929	ec
1,397.50	0.03	0.18	0.02	1,657.85	ec

① These I_γ are per 100 Decays of ¹⁷²Lu.

② For total uncertainty add systematic component of 4.0% in quadrature, based on the normalization factor 0.625(25)



GAMMA-RAY ENERGIES AND INTENSITIES (page 3 of 3)

Nuclide: **¹⁷²Lu**E_γ σE_γ I_γ σI_γ Levels- from ENSDF Database as of March 28, 2001

Half Life: 6.7(3) day

E _γ (keV)	σ E _γ	^① I _γ	^② σ I _γ	Level	
1,397.50	0.03	0.09	0.02	1,476.77	ec
1,402.53	0.03	0.73	0.02	1,662.812	ec
1,440.38	0.03	0.60	0.02	1,700.645	ec
1,446.20	0.06	0.034	0.003	1,706.454	ec
1,465.98	0.04	0.67	0.01	1,465.929	ec
1,470.39	0.03	0.71	0.03	1,549.118	ec
1,476.77	0.07	0.035	0.006	1,476.77	ec
1,488.94	0.03	1.15	0.02	1,749.208	ec
1,518.68	0.06	0.046	0.003	1,778.87	ec
1,529.78	0.05	0.087	0.008	1,608.62	ec
1,533.27	0.12	0.028	0.003	2,073.125	ec
1,542.850	0.023	1.02	0.02	1,803.113	ec
1,554.38	0.15	0.014	0.004	1,633.10	ec
1,572.12	0.17	0.028	0.013		ec
1,578.97	0.12	0.10	0.02	1,657.85	ec
1,584.12	0.04	2.64	0.04	1,662.812	ec
1,602.54	0.03	0.298	0.009	1,862.808	ec
1,608.81	0.06	0.109	0.006	1,608.62	ec
1,621.92	0.03	2.16	0.04	1,700.645	ec
1,635.2	0.7	0.015	0.004		ec
1,652.32	0.10	0.014	0.003	2,192.152	ec
1,666.84	0.04	0.278	0.006	1,926.958	ec

E _γ (keV)	σ E _γ	^① I _γ	^② σ I _γ	Level	
1,670.49	0.03	0.529	0.012	1,749.208	ec
1,724.35	0.03	0.438	0.010	1,803.113	ec
1,742.90	0.09	0.022	0.002	1,821.64	ec
1,803.97	0.15	0.012	0.002	2,343.720	ec
1,809.42	0.22	0.011	0.002		ec
1,812.85	0.04	0.193	0.008	2,073.125	ec
1,914.80	0.03	0.597	0.011	2,175.074	ec
1,920.50	0.14	0.018	0.002		ec
1,931.76	0.07	0.038	0.004	2,192.152	ec
1,994.36	0.06	0.149	0.009	2,073.125	ec
2,015.17	0.08	0.058	0.006		ec
2,024.9	0.3	0.056	0.006	2,285.399	ec
2,044.6	0.5	0.005	0.003		ec
2,047.55	0.15	0.011	0.003	2,307.83	ec
2,083.41	0.06	0.218	0.007	2,343.720	ec
2,096.33	0.05	0.069	0.003	2,175.074	ec
2,127.8	0.2	0.004 9	0.001 4		ec
2,134.81	0.09	0.009	0.003		ec
2,137.8	0.3	0.004	0.002		ec
2,206.72	0.15	0.008	0.004	2,285.399	ec
2,212.71	0.23	0.004	0.002		ec
2,265.02	0.08	0.013	0.002	2,343.720	ec

① These I_γ are per 100 Decays of ¹⁷²Lu.

② For total uncertainty add systematic component of 4.0% in quadrature, based on the normalization factor 0.625(25)

