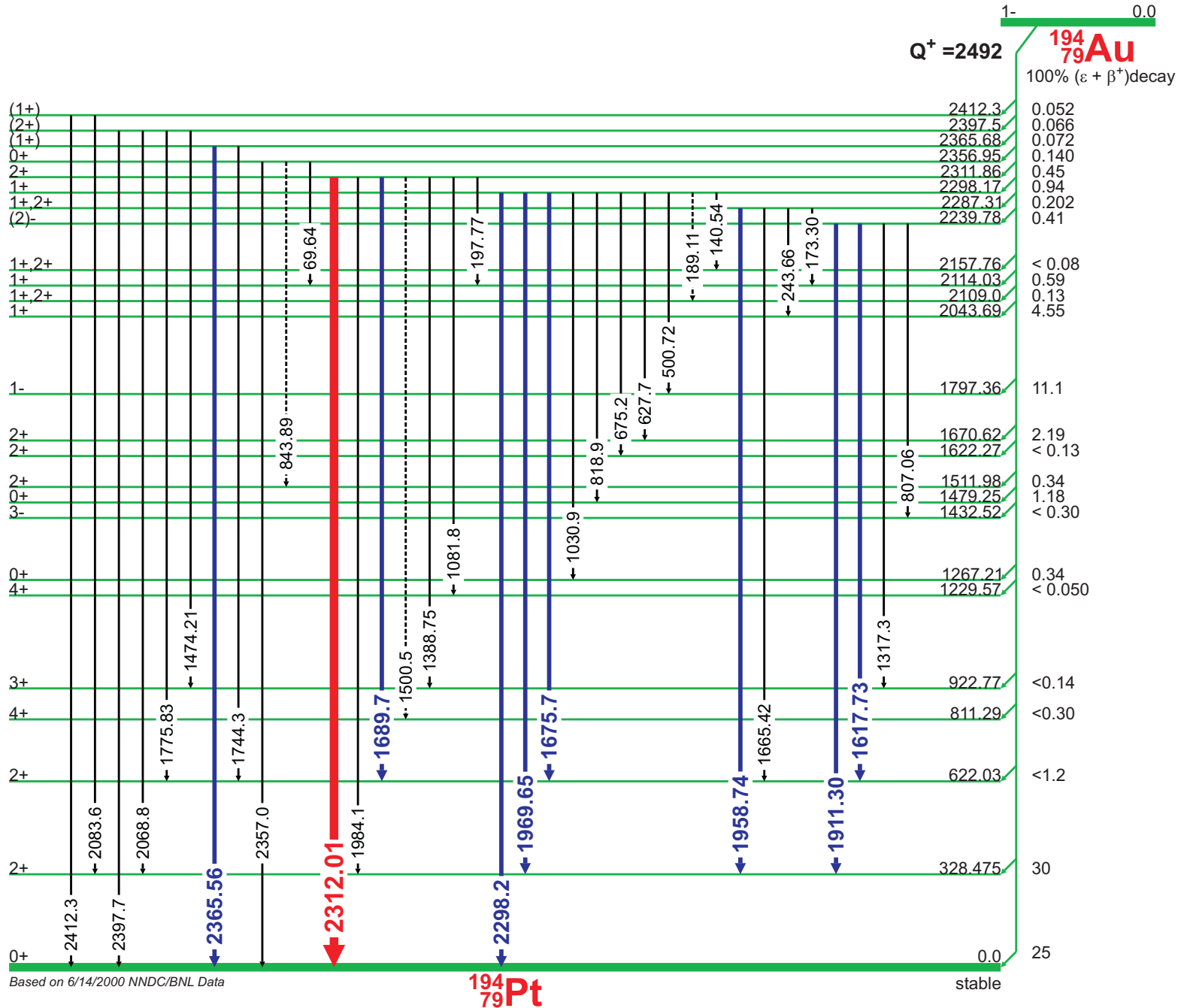


¹⁹⁴Au (38.02 hr.) Decay Scheme

Part 1 of 5

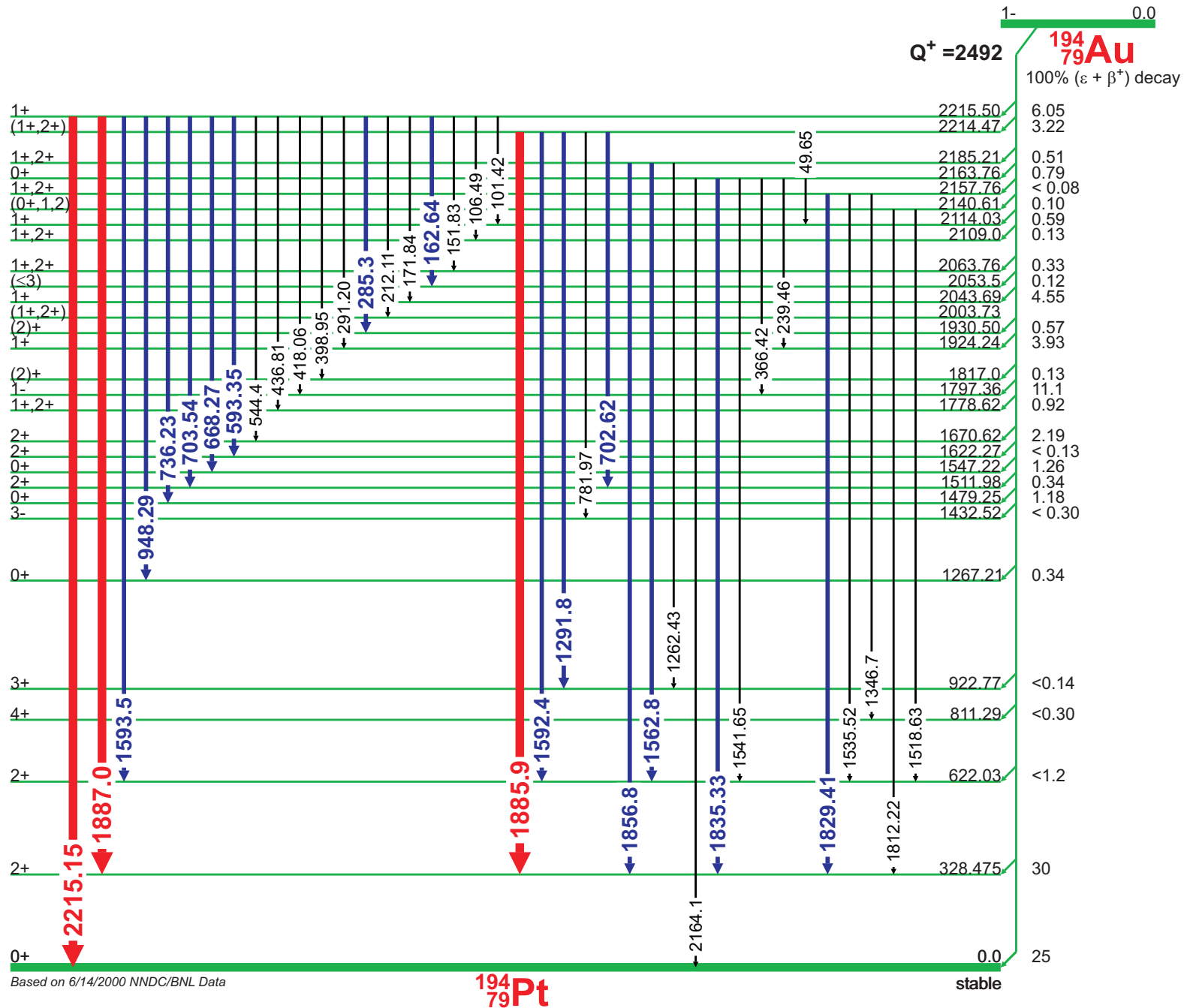
38.02 hr.



¹⁹⁴Au (38.02 hr.) Decay Scheme

Part 2 of 5

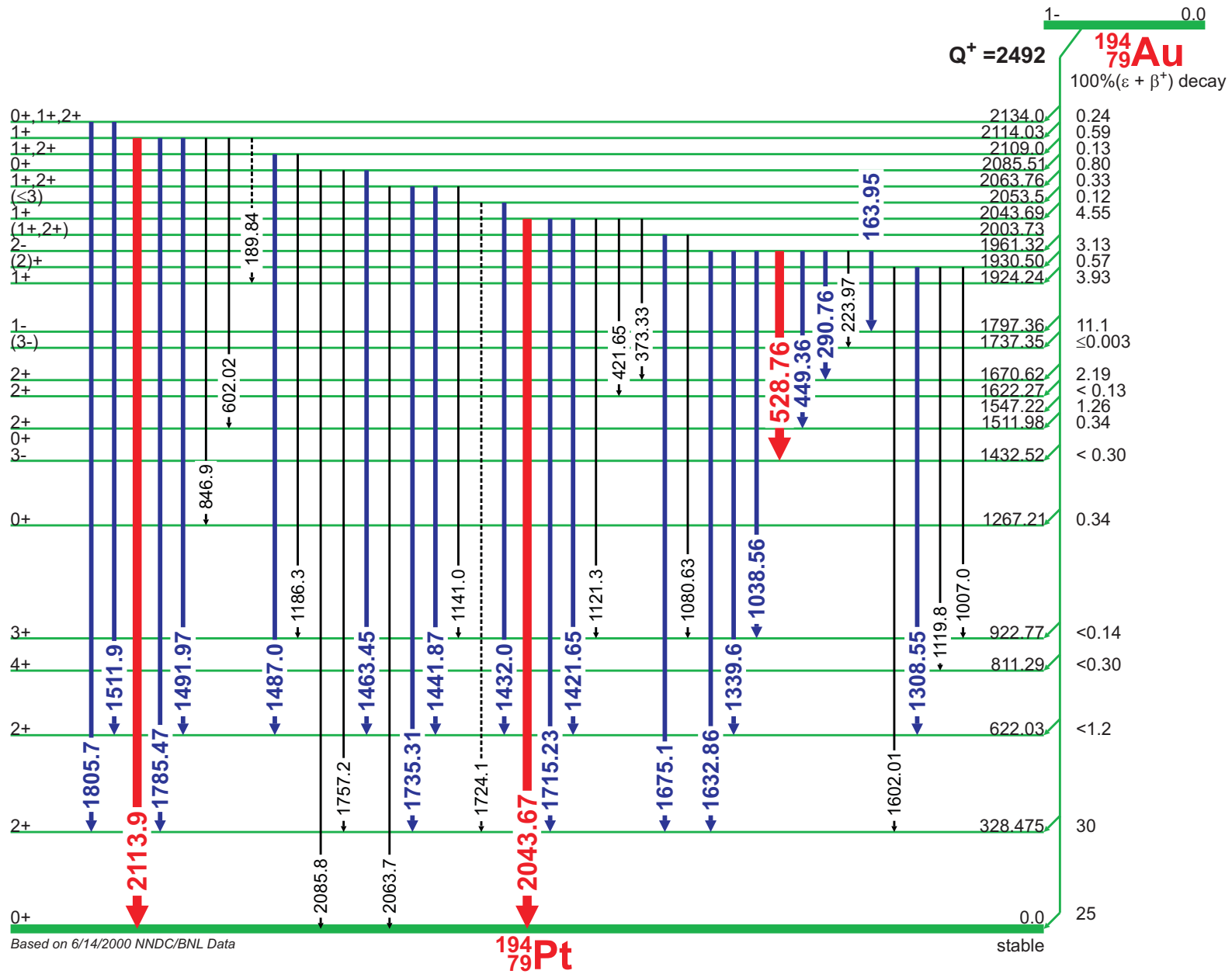
38.02 hr.



¹⁹⁴Au (38.02 hr.) Decay Scheme

Part 3 of 5

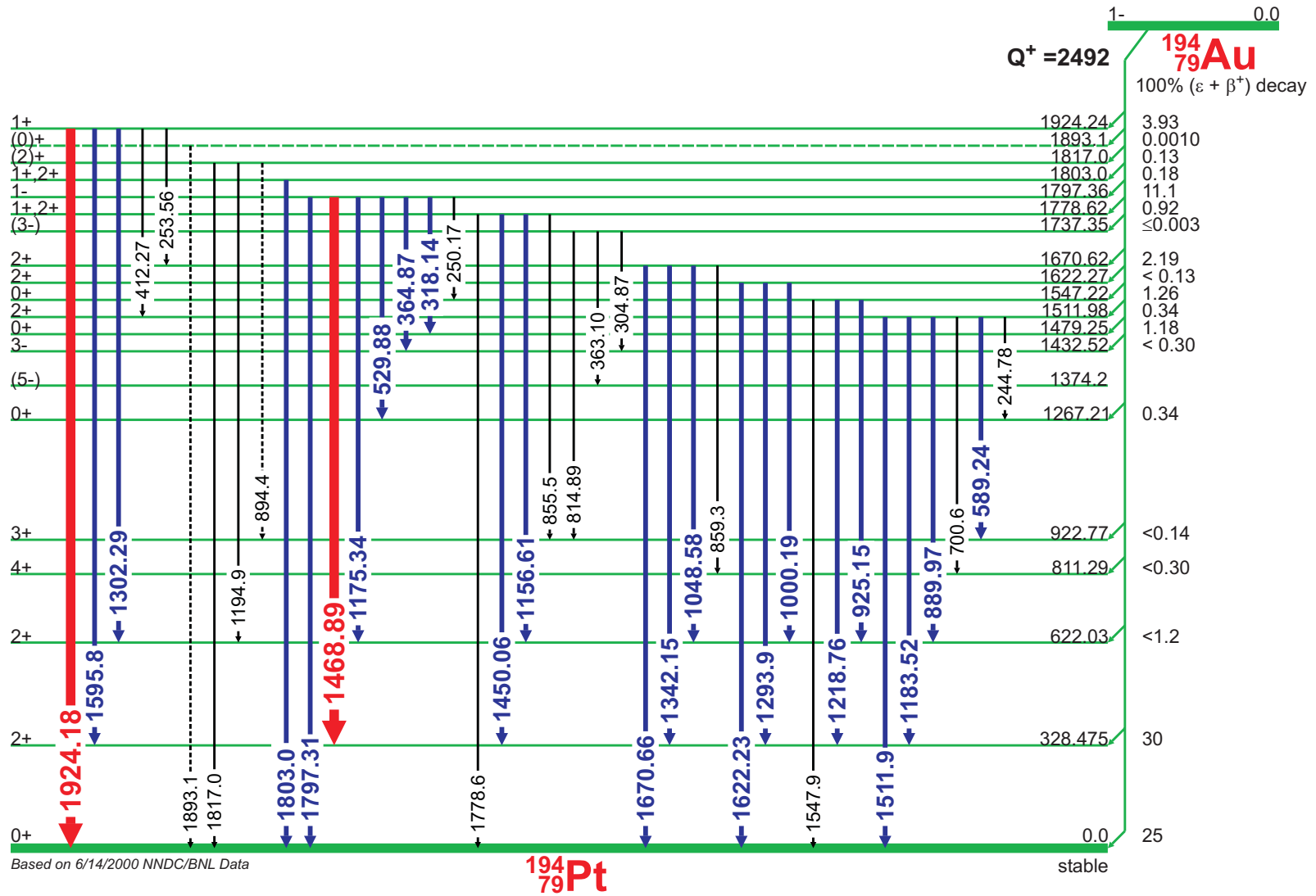
38.02 hr.



¹⁹⁴Au (38.02 hr.) Decay Scheme

Part 4 of 5

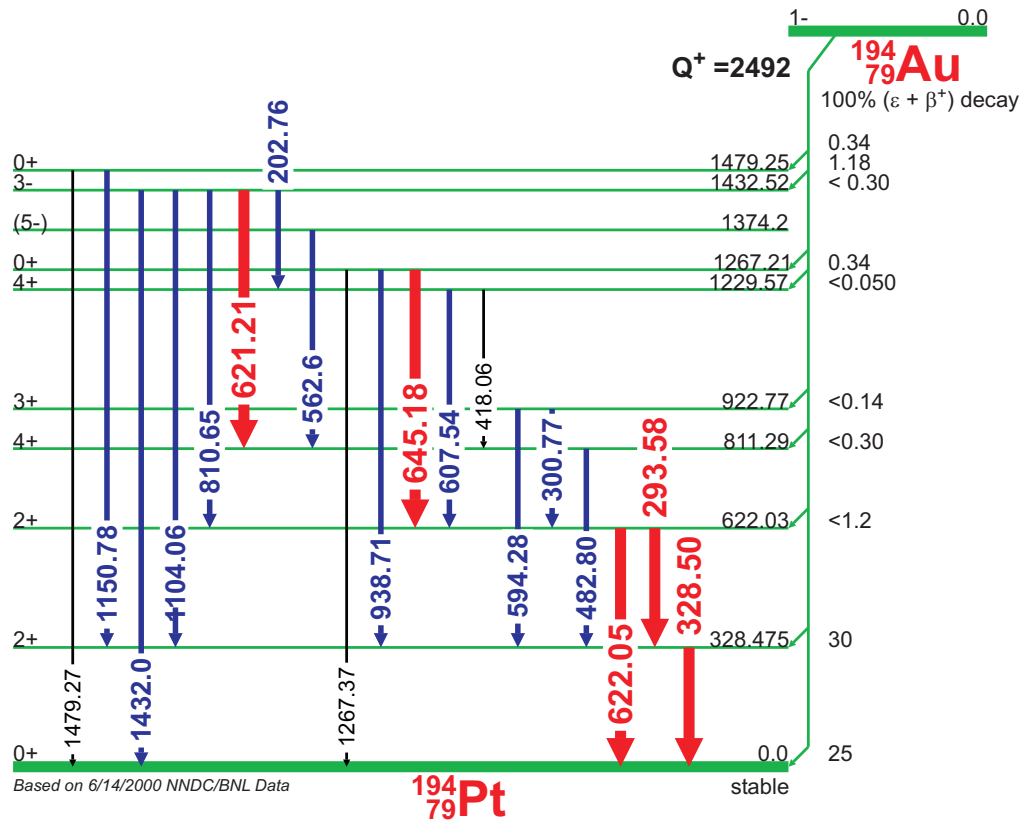
38.02 hr.



¹⁹⁴Au (38.02 hr.) Decay Scheme

Part 5 of 5

38.02 hr.



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

Nuclide: **¹⁹⁴Au**E_γ, σE_γ, I_γ, σI_γ, Levels- from ENSDF Database as of June 14, 2000

Half Life: 38.02(10) hr.

E _γ (keV)	σ E _γ	^① I _γ	^② σ I _γ	Level	
49.65	0.10	0.024	0.007	2,163.76	ε
59.45	0.10	0.004 9	0.001 2		ε
69.64	0.10	0.002 3	0.000 7	2,356.95	ε
101.42	0.10	0.004 3	0.001 8	2,215.50	ε
106.49	0.10	0.007 3	0.001 8	2,215.50	ε
140.54	0.10	0.058 0	0.006	2,298.17	ε
151.83	0.10	0.056	0.007	2,215.50	ε
162.57	0.10	0.021	0.004		ε
162.64	0.04	0.023 8	0.001 8	2,215.50	ε
163.95	0.10	0.128	0.012	1,961.32	ε
171.84	0.10	0.061	0.006	2,215.50	ε
173.30	0.10	0.004 9	0.001 8	2,287.31	ε
189.11	0.10	0.003 8	0.000 7	2,298.17	ε
189.84	0.10	0.003 7	0.002 4	2,114.03	ε
197.77	0.10	0.006 7	0.001 2	2,311.86	ε
202.76	0.20	0.33	0.03	1,432.52	ε
212.11	0.26	0.005 5	0.002 4	2,215.50	ε
215.57	0.10	0.008 5	0.002 4		ε
223.97	0.10	0.032	0.006	1,961.32	ε
239.46	0.10	0.055	0.006	2,163.76	ε
243.66	0.17	0.010	0.003	2,287.31	ε
244.78	0.10	0.027	0.004	1,511.98	ε
250.17	0.10	0.030	0.004	1,797.36	ε
253.56	0.10	0.003 1	0.001 2	1,924.24	ε
285.3	0.7	0.053	0.015	2,215.50	ε
290.76	0.10	0.11	0.04	1,961.32	ε
291.20	0.10	0.006 7	0.002 4	2,215.50	ε
293.58	0.03	10.4	0.6	622.03	ε
300.77	0.06	0.85	0.06	922.77	ε
304.87	0.08	0.018 3	0.001 8	1,737.35	ε
318.14	0.08	0.25	0.07	1,797.36	ε
328.50	0.03	61	3	328.475	ε
363.10	0.18	0.005 92	0.000 12	1,737.35	ε
364.87	0.04	1.51	0.08	1,797.36	ε

E _γ (keV)	σ E _γ	^① I _γ	^② σ I _γ	Level	
366.42	0.04	0.036	0.004	2,163.76	ε
373.33	0.14	0.006 7	0.001 2	2,043.69	ε
398.95	0.12	0.014	0.004	2,215.50	ε
412.27	0.10	0.031	0.018	1,924.24	ε
418.06	0.20	0.043	0.006	2,215.50	ε
418.06	0.20	0.043	0.006	1,229.57	ε
421.65	0.05	0.030 5	0.002 4	2,043.69	ε
436.81	0.09	0.013 4	0.002 4	2,215.50	ε
449.36	0.07	0.171	0.012	1,961.32	ε
482.80	0.04	1.13	0.06	811.29	ε
500.72	0.19	0.006 7	0.001 8	2,298.17	ε
528.76	0.10	1.65	0.18	1,961.32	ε
529.88	0.10	0.61	0.06	1,797.36	ε
544.4	0.6	0.025	0.009	2,215.50	ε
562.6	0.3	0.085	0.006	1,374.2	ε
589.24	0.07	0.250	0.018	1,511.98	ε
593.35	0.10	0.34	0.07	2,215.50	ε
594.28	0.10	0.122	0.031	922.77	ε
602.02	0.09	0.018	0.007	2,114.03	ε
607.54	0.08	0.293	0.018	1,229.57	ε
621.21	0.10	0.61	0.06	1,432.52	ε
622.05	0.10	1.71	0.18	622.03	ε
627.7	0.6	0.003 8	0.001 0	2,298.17	ε
645.18	0.03	2.14	0.11	1,267.21	ε
668.27	0.10	0.110	0.006	2,215.50	ε
671.16					ε
675.2	0.6	0.061	0.018	2,298.17	ε
700.6	0.6	0.06	0.03	1,511.98	ε
702.62	0.10	0.06	0.04	2,214.47	ε
703.54	0.05	0.41	0.04	2,215.50	ε
736.23	0.15	0.128	0.012	2,215.50	ε
774.9	1.3	0.049	0.024		ε
781.8	2.0	0.06	0.03		ε
781.97	0.05	0.043	0.006	2,214.47	ε

① These I_γ are per 100 Decays of ¹⁹⁴Au.

② For total uncertainty add systematic component of 4.9% in quadrature, based on the normalization factor 0.61(3).



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

Nuclide: **¹⁹⁴Au**E_γ, σE_γ, I_γ, σI_γ, Levels- from ENSDF Database as of June 14, 2000

Half Life: 38.02(10) hr.

E _γ (keV)	σ E _γ	① I _γ	② σ I _γ	Level	
807.06	0.30	0.021	0.005	2,239.78	ε
810.65	0.08	0.195	0.024	1,432.52	ε
814.89	0.29	0.007 3	0.001 2	1,737.35	ε
818.9	0.5	0.031	0.006	2,298.17	ε
843.89	0.10	0.128	0.024	2,356.95	ε
846.9	0.6	0.055	0.018	2,114.03	ε
855.5	1.3	0.10	0.04	1,778.62	ε
859.3	1.3	0.061	0.024	1,670.62	ε
886.0	2.0	0.012	0.006		ε
889.97	0.10	0.134	0.018	1,511.98	ε
894.4	0.4	0.031	0.012	1,817.0	ε
925.15	0.07	0.293	0.024	1,547.22	ε
932.4	1.3	0.037	0.018		ε
938.71	0.03	1.10	0.06	1,267.21	ε
948.29	0.04	2.20	0.12	2,215.50	ε
958.0	2.0	0.06	0.03		ε
1,000.19	0.15	0.183	0.018	1,622.27	ε
1,007.0	0.6	0.085	0.024	1,930.50	ε
1,030.9	0.5	0.018	0.006	2,298.17	ε
1,038.56	0.08	0.32	0.03	1,961.32	ε
1,048.58	0.05	0.86	0.05	1,670.62	ε
1,080.63	0.22	0.012	0.005	2,003.73	ε
1,081.8	1.9	0.031	0.018	2,311.86	ε
1,104.06	0.05	2.01	0.12	1,432.52	ε
1,119.8	0.6	0.13	0.04	1,930.50	ε
1,121.3	0.4	0.037	0.024	2,043.69	ε
1,141.0	0.5	0.024	0.012	2,063.76	ε
1,150.78	0.05	1.39	0.08	1,479.25	ε
1,156.61	0.06	0.45	0.04	1,778.62	ε
1,175.34	0.05	2.01	0.12	1,797.36	ε
1,183.52	0.05	0.63	0.06	1,511.98	ε
1,186.3	0.5	0.055	0.024	2,109.0	ε
1,194.9	1.3	0.08	0.03	1,817.0	ε
1,208.5	0.4	0.24	0.12		ε

E _γ (keV)	σ E _γ	① I _γ	② σ I _γ	Level	
1,218.76	0.05	1.10	0.06	1,547.22	ε
1,262.43	0.10	0.029	0.003	2,185.21	ε
1,267.37	0.15		EO	1,267.21	ε
1,291.8	1.0	0.12	0.06	2,214.47	ε
1,293.9	0.5	0.12	0.06	1,622.27	ε
1,302.29	0.08	0.268	0.024	1,924.24	ε
1,308.55	0.20	0.146	0.018	1,930.50	ε
1,317.3	1.3	0.049	0.024	2,239.78	ε
1,339.6	0.3	0.281	0.061	1,961.32	ε
1,342.15	0.10	1.220	0.092	1,670.62	ε
1,346.7	0.3	0.010	0.004	2,157.76	ε
1,388.75	0.19	0.016	0.004	2,311.86	ε
1,421.65	0.07	0.35	0.03	2,043.69	ε
1,432.0	0.6	0.06	0.04	2,053.5	ε
1,432.0	0.6	0.085	0.018	1,432.52	ε
1,441.87	0.15	0.183	0.024	2,063.76	ε
1,450.06	0.15	0.323	0.024	1,778.62	ε
1,463.45	0.10	0.73	0.06	2,085.51	ε
1,468.89	0.05	6.4	0.4	1,797.36	ε
1,474.21	0.14	0.021	0.003	2,397.5	ε
1,479.27	0.10	EO		1,479.25	ε
1,487.0	0.3	0.128	0.024	2,109.0	ε
1,491.97	0.15	0.177	0.024	2,114.03	ε
1,500.5	1.0	0.037	0.018	2,311.86	ε
1,511.9	0.3	0.067	0.024	2,134.0	ε
1,511.9	0.3	0.049	0.012	1,511.98	ε
1,518.5	0.2	0.073	0.012		ε
1,518.63	0.06	0.065	0.010	2,140.61	ε
1,535.52	0.26	0.009 8	0.002 4	2,157.76	ε
1,541.65	0.13	0.020 7	0.002 4	2,163.76	ε
1,547.9	0.4	EO		1,547.22	ε
1,562.8	0.3	0.323	0.024	2,185.21	ε
1,592.4	0.1	1.10	0.12	2,214.47	ε
1,593.5	0.1	0.61	0.12	2,215.50	ε

① These I_γ are per 100 Decays of ¹⁹⁴Au.

② For total uncertainty add systematic component of 4.9% in quadrature, based on the normalization factor 0.61(3).



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

Nuclide: **¹⁹⁴Au**E_γ, σE_γ, I_γ, σI_γ Levels- from ENSDF Database as of June 14, 2000

Half Life: 38.02(10) hr.

E _γ (keV)	σ E _γ	^① I _γ	^② σ I _γ	Level	ε
1,595.8	0.1	1.71	0.18	1,924.24	ε
1,602.01	0.10	0.26	0.03	1,930.50	ε
1,617.73	0.15	0.207	0.024	2,239.78	ε
1,622.23	0.15	0.177	0.024	1,622.27	ε
1,632.86	0.15	0.256	0.024	1,961.32	ε
1,665.42	0.13	0.026	0.004	2,287.31	ε
1,670.66	0.15	0.18	0.03	1,670.62	ε
1,675.1	0.5	0.06	0.05	2,003.73	ε
1,675.7	0.3	0.13	0.03	2,298.17	ε
1,689.7	0.2	0.15	0.03	2,311.86	ε
1,715.23	0.06	0.69	0.06	2,043.69	ε
1,724.1	1.3	0.08	0.04	2,053.5	ε
1,735.31	0.10	0.287	0.024	2,063.76	ε
1,744.3	0.5	0.032	0.009	2,365.68	ε
1,757.2	0.6	0.061	0.018	2,085.51	ε
1,775.83	0.21	0.020	0.005	2,397.5	ε
1,778.6	0.1	0.050	0.012	1,778.62	ε
1,785.47	0.07	0.38	0.04	2,114.03	ε
1,790.2	2.0				ε
1,797.31	0.08	0.61	0.05	1,797.36	ε
1,803.0	0.6	0.18	0.06	1,803.0	ε
1,805.7	0.6	0.18	0.06	2,134.0	ε
1,812.22	0.25	0.033	0.007	2,140.61	ε
1,812.8	0.6				ε
1,817.0	0.5	0.037	0.012	1,817.0	ε
1,829.41	0.10	0.244	0.018	2,157.76	ε
1,835.33	0.07	0.372	0.024	2,163.76	ε
1,856.3	1.3	0.043	0.024		ε
1,856.8	1.0	0.030	0.003	2,185.21	ε

E _γ (keV)	σ E _γ	^① I _γ	^② σ I _γ	Level	ε
1,885.9	0.1	1.89	0.12	2,214.47	ε
1,887.0	0.1	1.40	0.12	2,215.50	ε
1,893.1	0.4	EO		1,893.1	ε
1,911.30	0.15	0.128	0.012	2,239.78	ε
1,924.18	0.05	2.01	0.12	1,924.24	ε
1,958.74	0.20	0.165	0.018	2,287.31	ε
1,969.65	0.07	0.439	0.024	2,298.17	ε
1,984.1	0.6	0.037	0.012	2,311.86	ε
2,043.67	0.06	3.60	0.18	2,043.69	ε
2,063.7	0.5	0.009 8	0.002 4	2,063.76	ε
2,068.2	1.3	0.018	0.012		ε
2,068.8	1.0	0.021	0.007	2,397.5	ε
2,083.6	1.0	0.035	0.006	2,412.3	ε
2,085.8	0.4	EO		2,085.51	ε
2,113.9	0.2	0.262	0.018	2,114.03	ε
2,164.1	0.4	EO		2,163.76	ε
2,199.6	1.3	0.012	0.006		ε
2,204.0	1.3	0.012	0.006		ε
2,215.15	0.15	0.183	0.012	2,215.50	ε
2,298.2	0.3	0.028	0.005	2,298.17	ε
2,312.01	0.15	0.171	0.012	2,311.86	ε
2,357.0	0.8	EO		2,356.95	ε
2,365.56	0.20	0.040	0.006	2,365.68	ε
2,371	3	0.012	≈		ε
2,397.7	1.0	0.003 8	0.000 8	2,397.5	ε
2,412.3	0.6	0.017 1	0.003 1	2,412.3	ε
2,447.4	1.3	0.012	0.006		ε

① These I_γ are per 100 Decays of ¹⁹⁴Au.

② For total uncertainty add systematic component of 4.9% in quadrature, based on the normalization factor 0.61(3).

