^{199}Hg(n,γ) E=th:secondary 1974Br02

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 192,1 (2023)	1-Aug-2023

$J^{\pi}(^{199}Hg)=1/2^{-}$.

1974Br02: The low energy region was measured with the bent-crystal spectrometer at Riso, Denmark. The target consisted of 37 mg HgS with an isotopic enrichment of 97%. The medium- and high-energy γ rays, coincidence spectra, and $\gamma\gamma(\theta)$ were measured at the BNL high flux reactor using Ge(Li) detectors. The target consisted of 70 mg HgS with an isotopic enrichment of 97%.

Others: 2011Be36, 1989AH01, 1987SU15, 1967Ba07, 1967Ba20, 1969Lo04, 1969Sc03, 1971Ma10.

The decay scheme is based mainly on 1974Br02. Additional levels at 3216.75, 3353.05, 3452.96, 3492.60 and 3655.05 keV (and γ-ray placements) based on primary Eγ, intensity balances and good energy fits are proposed by the evaluator.

^{200}Hg Levels

E(level)†	J$^{\pi}$‡	$T_{1/2}$	E(level)†	J$^{\pi}$‡	E(level)†	J$^{\pi}$‡
0.0	0^+	stable	2074.333 *21*	$(2)^+$	2697.138 *24*	$(1,2)^+$
367.943 *10*	2^+		2114.356 *19*	3^+	2701.36 *3*	2^+
947.243 *16*	4^+		2116.547 *19*	0^+	2763.094 *22*	$(1,2)^+$
1029.346 *17*	0^+		2126.855 *18*	2^+	2794.16 *3*	$(1,2)^+$
1254.100 *17*	2^+		2127.932 *18*	$(2,3)^+$	2847.62 *4*	1^-
1515.176 *17*	0^+		2189.474 *19*	1^+	2853.00 *11*	$(1,2)^+$
1570.277 *17*	1^+		2229.273 *19*	1^+	2862.34 *5*	$(1,2)^+$
1573.666 *17*	2^+		2246.446 *19*	$(1,2)^+$	2877.878 *25*	1^+
1593.428 *17*	2^+		2274.227 *19*	$(2)^+$	2937.55 *12*	$1^+,2^+$
1630.899 *17*	1^+		2288.94 *4*	2^+	2960.14 *4*	1^-
1641.445 *17*	2^+		2296.34 *3*	1^+	2978.212 *25*	1^+
1659.007 *19*	3^+		2331.777 *18*	2^+	3053.31 *8*	1^+
1718.305 *17*	1^+		2343.593 *25*	$1^+,2^+,3^+$	3073.82 *3*	1^+
1730.927 *17*	2^+		2370.041 *18*	1^+	3186.33 *3*	1^+
1734.344 *17*	3^+		2388.69 *4*	$(1,2,3)^+$	3216.75 *13*	$(2)^+$
1775.564 *18*	3^+		2411.828 *21*	$(2)^+$	3269.41 *7*	1^+
1845.778 *17*	3^+		2442.71? *5*	1^-	3288.92 *7*	1^+
1856.783 *17*	0^+		2461.83 *4*	(1^+)	3353.05 *12*	1^+
1882.860 *17*	2^+		2491.425 *21*	$(2)^+$	3452.96 *7*	$(1)^+$
1972.279 *18*	$(2)^+$		2590.86 *13*	1^-	3492.60 *5*	1^+
1974.337 *18*	$(3)^+$		2639.924 *21*	1^+	3568.6 *10*	1^+
2061.255 *17*	1^+		2691.58 *4*	$(1,2)^+$	3655.05 *4*	$(1)^+$

† From a least-squares fit to Eγ.

‡ From deduced transition multipolarities using $\gamma\gamma(\theta)$ and α(K)exp, and γ-ray deexcitation pattern.

^{199}Hg(n,γ) E=th:secondary 1974Br02 (continued)

$\gamma(^{200}Hg)$

Iγ normalization: From Iγ(368γ)=81 *12* photons per 100 n-captures in natural mercury (1970Or05) and 98.04% *12* of all thermal n-captures due to ^{199}Hg (2018MuZY).

E_γ [†]	I_γ [†d]	E_i(level)	J_i^π	E_f	J_f^π
76.857 *4*	2.1 *6*	1718.305	1^+	1641.445	2^+
x83.639[g] *9*	3.9				
x97.548[g] *9*	2.5				
x97.761 *10*	2.3				
x99.779[g] *10*	2.1				
x113.24[g] *2*	1.0				
115.714 *9*	1.4 *4*	1630.899	1^+	1515.176	0^+
x130.26[g] *2*	0.4				
137.50 *2*	0.4	1730.927	2^+	1593.428	2^+
138.471 *16*	0.4	1856.783	0^+	1718.305	1^+
140.898 *12*	0.50 *15*	1734.344	3^+	1593.428	2^+
144.639[e] *10*	1.10[e] *17*	1718.305	1^+	1573.666	2^+
144.639[e] *10*	1.10[e] *17*	1775.564	3^+	1630.899	1^+
148.026 *4*	0.95 *10*	1718.305	1^+	1570.277	1^+
148.500[e] *6*	0.17[e] *4*	1882.860	2^+	1734.344	3^+
148.500[e] *6*	0.17[e] *4*	2639.924	1^+	2491.425	$(2)^+$
151.932[‡] *5*	0.28 *5*	1882.860	2^+	1730.927	2^+
x156.634 *12*	0.05				
x159.299 *6*	0.32 *7*				
x160.49[g] *3*	0.11				
160.659[e] *11*	0.07[e]	1730.927	2^+	1570.277	1^+
160.659[e] *11*	0.07[e]	1734.344	3^+	1573.666	2^+
x162.434[g] *13*	0.05				
164.544 *6*	0.39 *4*	1882.860	2^+	1718.305	1^+
x164.658[g] *15*	0.04				
x167.483[‡] *7*	0.110 *22*				
182.53 *3*	0.07	2411.828	$(2)^+$	2229.273	1^+
x182.70[g] *3*	0.06				
x185.911 *10*	0.060 *18*				
x185.98[g] *2*	0.04				
186.771 *13*	0.050 *18*	1845.778	3^+	1659.007	3^+
x189.96[g] *2*	0.03				
x190.24[g] *2*	0.03				
x197.45 *2*	0.03				
201.91 *2*	0.040 *14*	1775.564	3^+	1573.666	2^+

From ENSDF

$^{200}_{80}Hg_{120}$-2

^{199}Hg(n,γ) E=th:secondary 1974Br02 (continued)

$\gamma(^{200}Hg)$ (continued)

E_γ †	I_γ †[d]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[a]	Comments
[x]202.966 *13*	0.060 *18*						
203.135 *7*	0.56 *6*	1718.305	1^+	1515.176	0^+	M1	Mult.: α(K)exp=0.76 *22*.
203.832 *12*	0.060 *18*	2331.777	2^+	2127.932	$(2,3)^+$		
204.477 *8*	0.230 *23*	2061.255	1^+	1856.783	0^+		
[x]206.083 *9*	0.090 *14*						
[x]214.44 *2*	0.04						
[x]215.598 *9*	0.130 *20*						
215.743 *13*	0.060 *15*	1730.927	2^+	1515.176	0^+		
[x]223.494 *7*	0.110 *17*						
224.750 *6*	0.190 *19*	1254.100	2^+	1029.346	0^+		
225.885 *6*	0.65 *4*	1856.783	0^+	1630.899	1^+	M1	Mult.: α(K)exp=0.63 *20*.
[x]227.65 *2*	0.040 *14*						
[x]235.516 *10*	0.050 *10*						
241.356 *12*	0.050 *18*	1972.279	$(2)^+$	1730.927	2^+		
241.425 *10*	0.070 *18*	1882.860	2^+	1641.445	2^+		
243.411 *7*	0.250 *20*	1974.337	$(3)^+$	1730.927	2^+		
[x]245.223 *8*	0.160 *24*						
[x]247.35 *2*	0.030 *9*						
[x]249.265 *14*	0.030 *11*						
[x]250.778 *13*	0.040 *10*						
251.969 *7*	0.72 *5*	1882.860	2^+	1630.899	1^+		
252.356 *7*	0.41 *3*	1845.778	3^+	1593.428	2^+		
253.991 *15*	0.040 *12*	1972.279	$(2)^+$	1718.305	1^+		
[x]255.75 *3*	0.050 *13*						
[x]268.18[g] *3*	0.03						
268.49[g] *3*	0.03	2114.356	3^+	1845.778	3^+		
270.530 *12*	0.070 *14*	2331.777	2^+	2061.255	1^+		
271.68 *2*	0.060 *9*	2763.094	$(1,2)^+$	2491.425	$(2)^+$		
272.109[e] *8*	0.330[e] *23*	1845.778	3^+	1573.666	2^+	(M1)	Mult.: α(K)exp=0.60. I_γ: From adopted gammas.
272.109[e] *8*	0.330[e] *23*	2246.446	$(1,2)^+$	1974.337	$(3)^+$	(M1)	Mult.: α(K)exp=0.60.
275.497 *12*	0.060 *9*	1845.778	3^+	1570.277	1^+		
[x]278.17 *3*	0.070 *18*						
[x]278.274 *13*	0.090 *23*						
[x]278.88 *3*	0.030 *11*						
281.08[e] *2*	0.050[e] *10*	2126.855	2^+	1845.778	3^+		
281.08[e] *2*	0.050[e] *10*	2978.212	1^+	2697.138	$(1,2)^+$		
283.88 *3*	0.040 *12*	2411.828	$(2)^+$	2127.932	$(2,3)^+$		
286.518 *13*	0.070 *11*	1856.783	0^+	1570.277	1^+		
[x]287.182 *10*	0.110 *11*						
[x]287.620 *13*	0.060 *12*						

From ENSDF

$^{200}_{80}Hg_{120}$-3

^{199}Hg(n,γ) E=th:secondary 1974Br02 (continued)

γ(^{200}Hg) (continued)

E_γ †	I_γ †[d]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[a]	Comments
289.425 *9*	1.30 *8*	1882.860	2^+	1593.428	2^+	M1	Mult.: α(K)exp=0.37 *10*.
x298.34 *4*	0.030 *11*						
x298.75[g] *6*	0.04						
x299.53[g] *6*	0.05						
299.887 *12*	0.090 *14*	2274.227	$(2)^+$	1974.337	$(3)^+$		
301.963[e] *13*	0.070[e] *11*	2274.227	$(2)^+$	1972.279	$(2)^+$		
301.963[e] *13*	0.070[e] *11*	2491.425	$(2)^+$	2189.474	1^+		
306.618 *11*	0.180 *18*	2189.474	1^+	1882.860	2^+		
306.863 *11*	0.120 *15*	1254.100	2^+	947.243	4^+		
308.47[e] *4*	0.030[e] *12*	2697.138	$(1,2)^+$	2388.69	$(1,2,3)^+$		
308.47[e] *4*	0.030[e] *12*	3186.33	1^+	2877.878	1^+		
308.801 *11*	0.140 *14*	2370.041	1^+	2061.255	1^+		
309.209 *8*	0.55 *4*	1882.860	2^+	1573.666	2^+	M1	Mult.: α(K)exp>0.47.
312.613 *13*	0.080 *10*	1882.860	2^+	1570.277	1^+		
313.23 *3*	0.040 *10*	1972.279	$(2)^+$	1659.007	3^+		
316.176 *8*	1.12 *7*	1570.277	1^+	1254.100	2^+	M1(+E2)	Mult.: α(K)exp=0.33 *15*.
x317.74 *10*	0.03						
x318.03 *8*	0.04						
319.566 *15*	0.080 *12*	1573.666	2^+	1254.100	2^+	(M1+E2)	Mult.: α(K)exp=0.31 *21* (1987Su15).
321.55 *3*	0.060 *12*	2691.58	$(1,2)^+$	2370.041	1^+		
x322.57 *5*	0.050 *13*						
x325.31 *4*	0.040 *12*						
x329.27 *4*	0.030 *11*						
330.303 *16*	0.110 *17*	2061.255	1^+	1730.927	2^+		
330.84 *3*	0.06	1972.279	$(2)^+$	1641.445	2^+		
331.34 *3*	0.050 *13*	2701.36	2^+	2370.041	1^+		
332.67 *4*	0.050 *15*	2189.474	1^+	1856.783	0^+		
337.51 *2*	0.050 *10*	2411.828	$(2)^+$	2074.333	$(2)^+$		
338.75 *2*	0.210 *17*	2114.356	3^+	1775.564	3^+		
339.40	0.24 *12*	1593.428	2^+	1254.100	2^+	M1(+E0)	I_γ: From Iγ(339.4γ)/Iγ(1225.44γ) in 1987Su15 and Iγ(1225.44γ)=40 from 1974Br02. Mult.: α(K)exp=0.20 *8* (1987Su15).
340.03 *2*	0.090 *11*	2074.333	$(2)^+$	1734.344	3^+		
341.375 *12*	0.210 *17*	1972.279	$(2)^+$	1630.899	1^+		
341.82		1856.783	0^+	1515.176	0^+	E0	ce(K)(341.8)/ce(K)(886.2)=0.06 *2* (1987Su15).
x342.185 *14*	0.210 *17*						
x342.42 *3*	0.050 *18*						
342.939 *12*	0.39 *4*	2061.255	1^+	1718.305	1^+		
343.38 *2*	0.070 *11*	2074.333	$(2)^+$	1730.927	2^+		
346.406 *14*	0.190 *19*	2229.273	1^+	1882.860	2^+		
351.27[e] *2*	0.31[e] *4*	2126.855	2^+	1775.564	3^+		

From ENSDF

$^{200}_{80}Hg_{120}$-4

^{199}Hg(n,γ) E=th:secondary 1974Br02 (continued)

γ(^{200}Hg) (continued)

E_γ †	I_γ †[d]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[a]	Comments
351.27[e] 2	0.31[e] 4	2763.094	$(1,2)^+$	2411.828	$(2)^+$		
352.353 12	0.27 3	2127.932	$(2,3)^+$	1775.564	3^+		
[x]353.07 5	0.040 14						
[x]356.44 4	0.090 23						
359.48 4	0.070 18	2331.777	2^+	1972.279	$(2)^+$		
363.72 8	0.040 16	2246.446	$(1,2)^+$	1882.860	2^+		
367.942 10	1180 50	367.943	2^+	0.0	0^+	E2	Mult.: α(K)exp=0.036 7.
376.68 2	0.20 5	3073.82	1^+	2697.138	$(1,2)^+$		
376.79 2	0.23 5	1630.899	1^+	1254.100	2^+		
380.03 2	0.100 13	2114.356	3^+	1734.344	3^+		
383.437 11	0.32 3	2114.356	3^+	1730.927	2^+		
387.345 9	1.59 10	1641.445	2^+	1254.100	2^+	M1(+E0)	Mult.: α(K)exp=0.18 2 (1987Su15) and 0.22 5 (1974Br02).
392.524 17	0.120 14	2126.855	2^+	1734.344	3^+		
395.97 4	0.060 15	2126.855	2^+	1730.927	2^+		
397.01 2	0.160 21	2127.932	$(2,3)^+$	1730.927	2^+		
397.765 14	0.29 4	2370.041	1^+	1972.279	$(2)^+$		
398.249 9	3.70 19	2116.547	0^+	1718.305	1^+	M1	Mult.: α(K)exp=0.21 4.
398.63 2	0.22 3	1972.279	$(2)^+$	1573.666	2^+		
399.65 5	0.040 16	3452.96	$(1)^+$	3053.31	1^+		
404.94[e] 4	0.060[e] 10	1659.007	3^+	1254.100	2^+		
404.94[e] 4	0.060[e] 10	2847.62	1^-	2442.71?	1^-		
408.556 10	1.34 8	2126.855	2^+	1718.305	1^+	M1	Mult.: α(K)exp=0.18 5.
409.63 3	0.090 17	2127.932	$(2,3)^+$	1718.305	1^+		
414.41[g] 7	0.04	2388.69	$(1,2,3)^+$	1974.337	$(3)^+$		
415.50 3	0.090 12	3353.05	1^+	2937.55	$1^+,2^+$		
419.828 10	1.81 11	2061.255	1^+	1641.445	2^+	M1	Mult.: α(K)exp=0.12 3.
423.24 3	0.170 24	3186.33	1^+	2763.094	$(1,2)^+$		
[x]427.79 3	0.140 19						
428.45 3	0.130 17	2274.227	$(2)^+$	1845.778	3^+		
[x]429.79 7	0.06						
430.368 10	4.7 3	2061.255	1^+	1630.899	1^+	M1	Mult.: α(K)exp=0.13 3.
[x]437.03 5	0.05						
437.56[g] 13	0.060 24	2411.828	$(2)^+$	1974.337	$(3)^+$		
439.52[e] 4	0.080[e] 20	2296.34	1^+	1856.783	0^+		
439.52[e] 4	0.080[e] 20	2411.828	$(2)^+$	1972.279	$(2)^+$		
[x]445.686 14	0.51 4						
448.91 2	1.09 9	2331.777	2^+	1882.860	2^+		
[x]452.30[g] 14	0.07						
453.60 16	0.07	2229.273	1^+	1775.564	3^+		
453.60 16	0.07	3216.75	$(2)^+$	2763.094	$(1,2)^+$		
455.13 4	0.110 17	2189.474	1^+	1734.344	3^+		

From ENSDF

$^{200}_{80}Hg_{120}$-5

^{199}Hg(n,γ) E=th:secondary 1974Br02 (continued)

γ(^{200}Hg) (continued)

E_γ [†]	I_γ [†d]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[a]	Comments
[x]456.10 5	0.070 18						
458.80 9	0.070 25	2847.62	1^-	2388.69	$(1,2,3)^+$		
460.76 5	0.090 23	2343.593	$1^+,2^+,3^+$	1882.860	2^+		
[x]461.16 9	0.070 21						
[x]462.94 5	0.080 20						
464.214 12	1.31 8	1718.305	1^+	1254.100	2^+	M1(+E2)	Mult.: α(K)exp=0.05.
466.72 3	0.100 25	2763.094	$(1,2)^+$	2296.34	1^+		
467.86[e] 2	1.65[e] 10	2061.255	1^+	1593.428	2^+	(M1)	Mult.: α(K)exp=0.14 4.
467.86[e] 2	1.65[e] 10	2126.855	2^+	1659.007	3^+	(M1)	Mult.: α(K)exp=0.14 4.
467.86[e] 2	1.65[e] 6	2697.138	$(1,2)^+$	2229.273	1^+	(M1)	Mult.: α(K)exp=0.14 4.
468.73[e] 3	0.29[e] 7	2960.14	1^-	2491.425	$(2)^+$		
468.73[e] 3	0.29[e] 7	3655.05	$(1)^+$	3186.33	1^+		
468.93 2	0.35 7	2127.932	$(2,3)^+$	1659.007	3^+		
471.19 3	0.140 21	2189.474	1^+	1718.305	1^+		
472.12 8	0.070 21	2701.36	2^+	2229.273	1^+		
475.08[e] 4	0.100[e] 20	2116.547	0^+	1641.445	2^+		
475.08[e] 4	0.100[e] 20	2331.777	2^+	1856.783	0^+		
476.815 13	1.95 12	1730.927	2^+	1254.100	2^+	E2+M1(+E0)	Mult.: α(K)exp=0.022 5 (1987Su15) and 0.02 (1974Br02).
480.24 3	0.220 25	1734.344	3^+	1254.100	2^+		
[x]482.32 6	0.080 24						
483.34 9	0.07	2114.356	3^+	1630.899	1^+		
485.36 2	0.98 11	2126.855	2^+	1641.445	2^+		α(K)exp>0.017.
485.62 2	2.42 20	2116.547	0^+	1630.899	1^+	M1	Mult.: α(K)exp>0.056.
485.64		1515.176	0^+	1029.346	0^+	E0	Mult.: From 1987Su15; ce(K)(485.6)/ce(K)(886.2)=0.046 5 (1987Su15).
486.44 7	0.08 3	2127.932	$(2,3)^+$	1641.445	2^+		
487.12 3	0.52 6	2370.041	1^+	1882.860	2^+		
487.56 2	1.81 13	2061.255	1^+	1573.666	2^+	M1+E2	Mult.: α(K)exp>0.048.
490.95 2	1.16 7	2061.255	1^+	1570.277	1^+	M1+E2	Mult.: α(K)exp=0.044.
[x]491.70 6	0.100 25						
[x]495.48 8	0.09 4						
495.93 2	3.05 19	2126.855	2^+	1630.899	1^+	M1(+E2)	Mult.: α(K)exp=0.061.
497.81[e] 2	0.86[e] 6	2343.593	$1^+,2^+,3^+$	1845.778	3^+		
497.81[e] 2	0.86[e] 6	2794.16	$(1,2)^+$	2296.34	1^+		
498.63 4	0.180 24	2274.227	$(2)^+$	1775.564	3^+		
[x]502.83 4	0.220 25						
505.23 3	0.140 24	2794.16	$(1,2)^+$	2288.94	2^+		
516.35 3	0.27 4	2978.212	1^+	2461.83	(1^+)		
517.14 7	0.15 4	2491.425	$(2)^+$	1974.337	$(3)^+$		
520.91 5	0.21 4	2114.356	3^+	1593.428	2^+		
521.41 7	0.13 4	1775.564	3^+	1254.100	2^+		
532.53 6	0.11 3	3492.60	1^+	2960.14	1^-		

From ENSDF

$^{200}_{80}Hg_{120}$-6

^{199}Hg(n,γ) E=th:secondary 1974Br02 (continued)

γ(^{200}Hg) (continued)

E_γ [†]	I_γ [†d]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[a]	Comments
533.48 *3*	0.47 *5*	2126.855	2^+	1593.428	2^+	M1	Mult.: α(K)exp>0.13. E_γ: From adopted gammas.
534.48 *3*	0.17 *3*	2127.932	$(2,3)^+$	1593.428	2^+		
x535.01 *5*	0.14 *3*						
x537.30 *5*	0.20 *4*						
540.948 *16*	9.8 *6*	1570.277	1^+	1029.346	0^+	M1	Mult.: α(K)exp=0.064 *10*.
544.21 *7*	0.100 *20*	1573.666	2^+	1029.346	0^+		
546.10[e] *2*	0.71[e] *5*	2061.255	1^+	1515.176	0^+	M1	Mult.: α(K)exp=0.094 *35*.
546.10[e] *2*	0.71[e] *5*	2877.878	1^+	2331.777	2^+	(M1)	Mult.: α(K)exp=0.094 *35*.
x546.99[g] *12*	0.07						
x551.93 *8*	0.17 *5*						
x552.49[g] *19*	0.08						
553.18 *2*	1.25 *9*	2126.855	2^+	1573.666	2^+	M1	Mult.: α(K)exp=0.056 *20*.
556.58 *2*	3.38 *21*	2126.855	2^+	1570.277	1^+	M1(+E2)	Mult.: α(K)exp=0.050 *13*.
558.61[e] *5*	0.15[e] *3*	2189.474	1^+	1630.899	1^+		
558.61[e] *5*	0.15[e] *3*	2847.62	1^-	2288.94	2^+		
x562.57 *3*	0.53 *5*						
563.63 *9*	0.11 *4*	2691.58	$(1,2)^+$	2127.932	$(2,3)^+$		
564.19 *5*	0.17 *4*	1593.428	2^+	1029.346	0^+		
566.15 *5*	0.26 *4*	2411.828	$(2)^+$	1845.778	3^+		
568.04[e] *7*	0.13[e] *4*	2343.593	$1^+,2^+,3^+$	1775.564	3^+		
568.04[e] *7*	0.13[e] *4*	3269.41	1^+	2701.36	2^+		
x571.8[g] *3*	0.09						
573.41[e] *4*	0.27[e] *4*	2701.36	2^+	2127.932	$(2,3)^+$		
573.41[e] *4*	0.27[e] *4*	2847.62	1^-	2274.227	$(2)^+$		
573.41[e] *4*	0.27[e] *4*	2862.34	$(1,2)^+$	2288.94	2^+		
577.98 *6*	0.20 *7*	2296.34	1^+	1718.305	1^+		
579.300 *17*	27.8 *17*	947.243	4^+	367.943	2^+	E2	Mult.: α(K)exp=0.0144; γγ(θ) in 2011Be36, 1989Ah01.
x583.00 *10*	0.08 *3*						
x585.18[#] *8*	0.10 *4*						
586.98 *12*	0.09 *4*	2701.36	2^+	2114.356	3^+		
587.88 *4*	0.27 *4*	2229.273	1^+	1641.445	2^+		
588.96 *6*	0.17 *3*	2877.878	1^+	2288.94	2^+		
591.66 *3*	1.22 *9*	1845.778	3^+	1254.100	2^+	M1(+E2)	Mult.: α(K)exp=0.027.
596.06 *3*	0.43 *5*	2189.474	1^+	1593.428	2^+		
597.41 *4*	0.31 *5*	2331.777	2^+	1734.344	3^+		
598.35 *3*	0.66 *6*	2229.273	1^+	1630.899	1^+	M1(+E2)	Mult.: α(K)exp>0.025.
x598.99[g] *13*	0.14						
599.93 *11*	0.09 *4*	3452.96	$(1)^+$	2853.00	$(1,2)^+$		
600.82 *4*	0.37 *4*	2331.777	2^+	1730.927	2^+		

From ENSDF

$^{200}_{80}Hg_{120}$-7

^{199}Hg(n,γ) E=th:secondary 1974Br02 (continued)

$\gamma(^{200}Hg)$ (continued)

E_γ †	I_γ †[d]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[a]	δ[b]	Comments
601.48 *5*	0.27 *5*	1630.899	1^+	1029.346	0^+			
602.73 *7*	0.18 *4*	1856.783	0^+	1254.100	2^+			
[x]607.26 *10*	0.080 *24*							
608.22 *9*	0.19 *7*	2978.212	1^+	2370.041	1^+			
[x]608.93 *13*	0.2							
[x]609.94 *13*	0.11 *5*							
612.12 *3*	2.48 *20*	1641.445	2^+	1029.346	0^+			α(K)exp<0.016.
613.55 *5*	0.25 *5*	2331.777	2^+	1718.305	1^+			
615.54 *4*	0.82 *17*	2246.446	$(1,2)^+$	1630.899	1^+			
615.82[e] *10*	0.49[e]	2189.474	1^+	1573.666	2^+			
615.82[e] *10*	0.49[e]	2862.34	$(1,2)^+$	2246.446	$(1,2)^+$			
[x]623.24 *3*	0.76 *6*							
626.52 *10*	0.13 *4*	1573.666	2^+	947.243	4^+			
628.80 *3*	1.88 *14*	1882.860	2^+	1254.100	2^+	M1(+E2)	≤1	Mult.,δ: α(K)exp=0.037 *10*.
631.50 *9*	0.14 *4*	2877.878	1^+	2246.446	$(1,2)^+$			
632.85 *5*	0.19 *4*	2274.227	$(2)^+$	1641.445	2^+			
634.66[e] *10*	0.17[e] *5*	2491.425	$(2)^+$	1856.783	0^+			
634.66[e] *10*	0.17[e] *5*	2978.212	1^+	2343.593	$1^+,2^+,3^+$			
635.86[e] *16*	0.14[e]	2229.273	1^+	1593.428	2^+			
635.86[e] *16*	0.14[e]	2370.041	1^+	1734.344	3^+			
635.86[e] *16*	0.14[e]	2697.138	$(1,2)^+$	2061.255	1^+			
[x]636.76 *16*	0.09							
[x]638.53 *11*	0.14							
639.11 *4*	0.80 *7*	2370.041	1^+	1730.927	2^+			
643.29 *4*	0.62 *7*	2274.227	$(2)^+$	1630.899	1^+			
644.93 *5*	0.23 *4*	3492.60	1^+	2847.62	1^-			
646.17 *7*	0.19 *4*	1593.428	2^+	947.243	4^+			
[x]649.24[#] *8*	0.21 *4*							
651.4 *3*	0.19 *6*	2370.041	1^+	1718.305	1^+			
652.91[#] *8*	0.21 *4*	2246.446	$(1,2)^+$	1593.428	2^+			
655.59 *5*	0.32 *5*	2229.273	1^+	1573.666	2^+			
659.01 *3*	1.44 *15*	2229.273	1^+	1570.277	1^+			
661.36 *3*	81 *6*	1029.346	0^+	367.943	2^+	E2		Mult.: α(K)exp=0.0102 *14*; $\gamma\gamma(\theta)$ in 1989Ah01, 1974Br02.
674.29 *7*	0.27 *8*	2189.474	1^+	1515.176	0^+			
676.15 *3*	2.57 *21*	2246.446	$(1,2)^+$	1570.277	1^+	M1+E2		Mult.: α(K)exp=0.029 *9* (1974Br02).
677.45 *7*	0.56 *8*	2411.828	$(2)^+$	1734.344	3^+			
681.87 *8*	0.37 *10*	2978.212	1^+	2296.34	1^+			
685.19 *12*	0.20 *6*	3073.82	1^+	2388.69	$(1,2,3)^+$			
[x]687.1[g] *3*	0.2							
688.94 *3*	9.2 *7*	1718.305	1^+	1029.346	0^+	M1		Mult.: α(K)exp=0.033 *3*.

From ENSDF

$^{200}_{80}Hg_{120}$-8

^{199}Hg(n,γ) E=th:secondary 1974Br02 (continued)

$\gamma(^{200}Hg)$ (continued)

E_γ [†]	I_γ [†d]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[a]	Comments
690.28 *6*	0.60 *15*	2331.777	2^+	1641.445	2^+		
694.14 *5*	0.51 *9*	1641.445	2^+	947.243	4^+		
695.72 *20*	0.17	2288.94	2^+	1593.428	2^+		
700.17 *15*	0.27 *10*	2274.227	$(2)^+$	1573.666	2^+		
701.56 *3*	8.2 *7*	1730.927	2^+	1029.346	0^+	(E2)	Mult.: 0.003<α(K)exp<0.01.
703.82[e] *5*	1.22[e] *17*	2274.227	$(2)^+$	1570.277	1^+		
703.82[e] *5*	1.22[e] *17*	3073.82	1^+	2370.041	1^+		
[x]706.26 *15*	0.20 *6*						
[x]709.32 *12*	0.23 *6*						
[x]710.22 *11*	0.30 *8*						
710.93 *12*	0.21 *9*	2370.041	1^+	1659.007	3^+		
711.70 *5*	0.85 *8*	1659.007	3^+	947.243	4^+		
713.94 *10*	0.26 *5*	2229.273	1^+	1515.176	0^+		
718.04 *10*	0.50 *13*	1972.279	$(2)^+$	1254.100	2^+		
718.55 *13*	0.36 *11*	2288.94	2^+	1570.277	1^+		
720.21 *5*	0.78 *7*	1974.337	$(3)^+$	1254.100	2^+		
721.0[g] *8*	0.2	3053.31	1^+	2331.777	2^+		
722.2 *5*	0.2	2296.34	1^+	1573.666	2^+		
724.78 *10*	0.21 *6*	3186.33	1^+	2461.83	(1^+)		
728.45 *7*	0.81 *8*	2370.041	1^+	1641.445	2^+		
733.4[e] *3*	0.43[e] *11*	2794.16	$(1,2)^+$	2061.255	1^+		
733.4[e] *3*	0.43[e] *11*	2847.62	1^-	2114.356	3^+		
738.5[e] *2*	0.25[e]	2331.777	2^+	1593.428	2^+		
738.5[e] *2*	0.25[e]	2853.00	$(1,2)^+$	2114.356	3^+		
739.05 *16*	0.41 *13*	2370.041	1^+	1630.899	1^+		
743.52[e] *8*	0.53[e] *7*	2461.83	(1^+)	1718.305	1^+		
743.52[e] *8*	0.53[e] *7*	3186.33	1^+	2442.71?	1^-		
[x]745.22 *12*	0.26 *7*						
747.30 *9*	0.38 *7*	2388.69	$(1,2,3)^+$	1641.445	2^+		
748.84 *10*	0.48 *10*	2978.212	1^+	2229.273	1^+		
749.9 *2*	0.18 *7*	2877.878	1^+	2127.932	$(2,3)^+$		
755.92 *18*	0.18 *8*	3452.96	$(1)^+$	2697.138	$(1,2)^+$		
757.01[e] *6*	1.23[e] *12*	2491.425	$(2)^+$	1734.344	3^+		
757.01[e] *6*	1.23[e] *12*	2639.924	1^+	1882.860	2^+		
759.30 *11*	0.34 *6*	2274.227	$(2)^+$	1515.176	0^+		
761.43[e] *12*	0.59[e] *21*	2331.777	2^+	1570.277	1^+		
761.43[e] *12*	0.59[e] *21*	3452.96	$(1)^+$	2691.58	$(1,2)^+$		
762.10 *19*	0.33	3353.05	1^+	2590.86	1^-		
[x]778.89 *14*	0.29 *8*						
[x]780.02[g] *18*	0.44						

From ENSDF

$^{200}_{80}Hg_{120}$-9

^{199}Hg(n,γ) E=th:secondary 1974Br02 (continued)

γ(^{200}Hg) (continued)

E_γ [†]	I_γ [†d]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[a]	δ[b]	Comments
780.96[e] *11*	0.28[e] *7*	2296.34	1^+	1515.176	0^+			
780.96[e] *11*	0.28[e] *7*	2411.828	$(2)^+$	1630.899	1^+			
783.71 *4*	3.00 *24*	1730.927	2^+	947.243	4^+	E2		Mult.: From γγ(θ) in 2011Be36; α(K)exp<0.014.
784.9 *3*	0.24	3073.82	1^+	2288.94	2^+			
787.10 *4*	3.1 *3*	1734.344	3^+	947.243	4^+	M1+E2	+0.08[c] *4*	Mult.: α(K)exp>0.019; γγ(θ) in 2011Be36.
788.77[e] *6*	1.13[e] *16*	2763.094	$(1,2)^+$	1974.337	$(3)^+$			
788.77[e] *6*	1.13[e] *16*	2978.212	1^+	2189.474	1^+			
[x]789.73 *19*	0.37 *13*							
796.41 *6*	1.67 *14*	2370.041	1^+	1573.666	2^+	M1		Mult.: α(K)exp=0.029 *8*.
797.4[e] *2*	0.32[e] *11*	3186.33	1^+	2388.69	$(1,2,3)^+$			
797.4[e] *2*	0.32[e] *11*	3288.92	1^+	2491.425	$(2)^+$			
799.90 *18*	0.57 *17*	2370.041	1^+	1570.277	1^+			
807.20 *5*	2.86 *20*	2061.255	1^+	1254.100	2^+	M1+E2		Mult.: α(K)exp=0.018 *5*.
818.33[e] *11*	0.63[e] *11*	2388.69	$(1,2,3)^+$	1570.277	1^+			
818.33[e] *11*	0.63[e] *11*	2411.828	$(2)^+$	1593.428	2^+			
823.95 *14*	0.43 *13*	3053.31	1^+	2229.273	1^+			
827.47		1856.783	0^+	1029.346	0^+	E0		ce(K)(827.4)/ce(K)(886.2)=0.028 *10* (1987Su15).
828.27 *4*	4.9 *4*	1775.564	3^+	947.243	4^+	M1(+E2)	−0.04[c] *3*	Mult.: α(K)exp=0.020 *5*; γγ(θ) (2011Be36,1989Ah01). δ: Other: −0.043 *52* from γγ(θ) (1989Ah01).
[x]837.7[#] *3*	0.3							
851.36 *4*	9.1 *7*	2978.212	1^+	2126.855	2^+	M1+E2		Mult.: α(K)exp=0.016 *3*.
854.2[#] *2*	0.60 *21*	3186.33	1^+	2331.777	2^+			
860.6[e‡#] *2*	0.49[e] *17*	2491.425	$(2)^+$	1630.899	1^+			
860.6[e] *2*	0.49[e] *17*	3655.05	$(1)^+$	2794.16	$(1,2)^+$			
861.71 *12*	0.95 *18*	2978.212	1^+	2116.547	0^+			
872.93 *14*	0.69 *13*	2126.855	2^+	1254.100	2^+			
886.20 *4*	51 *4*	1254.100	2^+	367.943	2^+	E2+M1	−1.72[c] *12*	δ: Other: −2.20 *+16−5* (1989Ah01). Mult.: α(K)exp=0.0093 *3* (1987Su15) and 0.0081 *11* (1974Br02); γγ(θ) in 2011Be36, 1989Ah01, 1974Br02.
890.0[g] *5*	0.4	3186.33	1^+	2296.34	1^+			
896.7 *2*	0.2	2411.828	$(2)^+$	1515.176	0^+			
898.56 *7*	2.60 *24*	1845.778	3^+	947.243	4^+	M1+E2	−0.07[c] *4*	Mult.: α(K)exp=0.0080 *32*; γγ(θ) in 2011Be36.
901.69 *17*	0.6	3492.60	1^+	2590.86	1^-			
903.5 *2*	0.4	2877.878	1^+	1974.337	$(3)^+$			
[x]904.36 *12*	1.4 *5*							
905.3[e] *4*	0.6[e]	2639.924	1^+	1734.344	3^+			
905.3[e] *4*	0.6[e]	2877.878	1^+	1972.279	$(2)^+$			
911.5 *6*	0.8 *3*	2794.16	$(1,2)^+$	1882.860	2^+			
917.9 *3*	0.80 *20*	2491.425	$(2)^+$	1573.666	2^+			

From ENSDF

$^{200}_{80}Hg_{120}$-10

γ(^{200}Hg) (continued)

E_γ †	I_γ †[d]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[a]	Comments
935.45 *8*	2.1 *3*	2189.474	1^+	1254.100	2^+	M1+E2	Mult.: α(K)exp=0.0094.
945.4 *3*	0.59 *18*	3288.92	1^+	2343.593	$1^+,2^+,3^+$		
x947.34 *17*	0.6						
957.19[e] *13*	0.86[e] *16*	2691.58	$(1,2)^+$	1734.344	3^+		
957.19[e] *13*	0.86[e] *16*	3186.33	1^+	2229.273	1^+		
957.19[e] *13*	0.86[e] *16*	3288.92	1^+	2331.777	2^+		
975.15 *7*	5.4 *5*	2229.273	1^+	1254.100	2^+	M1+E2	Mult.: α(K)exp=0.0100 *23* (1974Br02).
980.2 *5*	0.9	3269.41	1^+	2288.94	2^+		
992.35 *17*	1.35 *19*	2246.446	$(1,2)^+$	1254.100	2^+		
996.5[e#] *7*	0.60[e] *24*	2853.00	$(1,2)^+$	1856.783	0^+		
996.5[e#] *7*	0.60[e] *24*	3186.33	1^+	2189.474	1^+		
x1002.5 *3*	1.2 *5*						
1008.7 *4*	1	2639.924	1^+	1630.899	1^+		
1010.2 *5*	0.8	3452.96	$(1)^+$	2442.71?	1^-		
x1013.9 *3*	4.1 *7*					E2	Mult.: α(K)exp=0.0043 *13*.
1022.5[g] *4*	0.7	3269.41	1^+	2246.446	$(1,2)^+$		
1027.1 *3*	1.3 *4*	1974.337	$(3)^+$	947.243	4^+	M1+E2	Mult.: From 1974Br02, but no α(K)exp value was provided by the authors.
1029.36		1029.346	0^+	0.0	0^+	E0	Mult.: From 1987Su15; ce(K)(1029.3)/ce(K)(886.2)=0.028 *3* (1987Su15).
1034.9 *10*	0.8	2288.94	2^+	1254.100	2^+		
x1038 *1*	0.8						
1042.4[e] *3*	1.8[e] *5*	2296.34	1^+	1254.100	2^+	(M1)	Mult.: α(K)exp=0.012.
1042.4[e] *3*	1.8[e] *5*	2701.36	2^+	1659.007	3^+	(M1)	Mult.: α(K)exp=0.012.
1042.4[e] *3*	1.8[e] *5*	3288.92	1^+	2246.446	$(1,2)^+$	(M1)	Mult.: α(K)exp=0.012.
1054.7 *4*	1.0 *4*	2937.55	$1^+,2^+$	1882.860	2^+	M1	Mult.: α(K)exp=0.019.
1059.6[e‡#] *2*	2.0[e] *5*	2701.36	2^+	1641.445	2^+	(E2)	Mult.: α(K)exp<0.009.
1059.6[e#] *2*	2.0[e] *5*	2794.16	$(1,2)^+$	1734.344	3^+		α(K)exp<0.009.
1059.6[e#] *2*	2.0[e] *5*	3288.92	1^+	2229.273	1^+	(E2)	Mult.: α(K)exp<0.009.
1070.0 *4*	0.4	2701.36	2^+	1630.899	1^+		
x1074.1 *4*	0.4						
1081.3[e] *3*	0.70[e] *21*	2937.55	$1^+,2^+$	1856.783	0^+		
1081.3[e] *3*	0.70[e] *21*	3053.31	1^+	1972.279	$(2)^+$		
1100.3 *5*	0.7	3216.75	$(2)^+$	2116.547	0^+		
1116[g] *1*	0.4	2370.041	1^+	1254.100	2^+		
1121.4[e] *2*	2.5[e] *6*	2691.58	$(1,2)^+$	1570.277	1^+	(M1)	Mult.: α(K)exp=0.012 *4*.
1121.4[e] *2*	2.5[e] *6*	2763.094	$(1,2)^+$	1641.445	2^+	(M1)	Mult.: α(K)exp=0.012 *4*.
1121.4[e] *2*	2.5[e] *6*	2978.212	1^+	1856.783	0^+	(M1)	Mult.: α(K)exp=0.012 *4*.
x1137.6 *6*	0.7						
1147.20 *8*	23.0 *23*	1515.176	0^+	367.943	2^+	E2	Mult.: α(K)exp=0.0041 *6*; γγ(θ) in 1989Ah01, 1974Br02.
1158.3 *7*	1.1 *4*	2411.828	$(2)^+$	1254.100	2^+		

From ENSDF

$^{200}_{80}Hg_{120}$-11

^{199}Hg(n,γ) E=th:secondary 1974Br02 (continued)

$\gamma(^{200}Hg)$ (continued)

E_γ [†]	I_γ [†d]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[a]	δ[b]	Comments
1163.5[e] *3*	2.8[e] *6*	2794.16	$(1,2)^+$	1630.899	1^+	M1(+E2)		Mult.: α(K)exp=0.0078.
1163.5[e] *3*	2.8[e] *6*	3353.05	1^+	2189.474	1^+	M1(+E2)		Mult.: α(K)exp=0.0078.
1163.5[e] *3*	2.8[e] *6*	3655.05	$(1)^+$	2491.425	$(2)^+$	M1(+E2)		Mult.: α(K)exp=0.0078.
1167.0 *7*	0.8	2114.356	3^+	947.243	4^+			
1172.8 *5*	1.0 *4*	3288.92	1^+	2116.547	0^+			
1180.4 *4*	1.0 *4*	2127.932	$(2,3)^+$	947.243	4^+			
1181.9[@g]		2697.138	$(1,2)^+$	1515.176	0^+			E_γ: Not observed by 1987Su15.
1192.9[e] *6*	0.8[e]	2763.094	$(1,2)^+$	1570.277	1^+			
1192.9[e] *6*	0.8[e]	3655.05	$(1)^+$	2461.83	(1^+)			
1202.35 *7*	37 *4*	1570.277	1^+	367.943	2^+	M1+E2	−0.43[c] *4*	δ: Other: +0.16 *5* (1989Ah01). Mult.: α(K)exp=0.0071 *13*; $\gamma\gamma(\theta)$ in 2011Be36, 1989Ah01, 1974Br02.
1205.75 *7*	41 *4*	1573.666	2^+	367.943	2^+	M1+E2	+0.26[c] *2*	Mult.: α(K)exp=0.0077 *17* (1987Su15) and 0.0088 *17* (1974Br02); $\gamma\gamma(\theta)$ in 2011Be36, 1989Ah01, 1974Br02. δ: Other: +0.31 *3* (1989Ah01).
1225		3568.6	1^+	2343.593	$1^+,2^+,3^+$			E_γ: From 2011Be36.
1225.44 *8*	40 *8*	1593.428	2^+	367.943	2^+	M1+E2(+E0)	−2.48 *+16−32*	Mult.: α(K)exp=0.0068 *14* (1987Su15) and 0.0078 *10* (1974Br02); $\gamma\gamma(\theta)$ in 2011Be36, 1989Ah01, 1974Br02. δ: From 1989Ah01; Other: −0.09 *15* (2011Be36).
1237[&]		2491.425	$(2)^+$	1254.100	2^+			
1247.3[e] *3*	3.4[e] *7*	2877.878	1^+	1630.899	1^+			
1247.3[e] *3*	3.4[e] *7*	2978.212	1^+	1730.927	2^+			
1254.14 *10*	23.0 *21*	1254.100	2^+	0.0	0^+	E2		Mult.: α(K)exp=0.0033 *7*.
1262.96 *8*	65 *6*	1630.899	1^+	367.943	2^+	M1+E2	+0.12[c] *5*	Mult.: α(K)exp=0.0062 *7*; $\gamma\gamma(\theta)$ in 2011Be36, 1989Ah01, 1974Br02. δ: Other: +0.53 *33* (1989Ah01).
1266.9 *6*	2.4	2296.34	1^+	1029.346	0^+			
1273.43 *10*	33 *3*	1641.445	2^+	367.943	2^+	M1(+E2)	+0.02 *3*	Mult.: α(K)exp=0.0040 *9* (1987Su15) and 0.0058 *8* (1974Br02); $\gamma\gamma(\theta)$ in 2011Be36, 1989Ah01, 1974Br02. δ: Other: +0.047 *+29−30* (1989Ah01).
1283.9 *7*	1	2877.878	1^+	1593.428	2^+			
1291.1 *6*	3.3 *10*	1659.007	3^+	367.943	2^+			
1294.6 *6*	1.7	3269.41	1^+	1974.337	$(3)^+$			
1318.0 *6*	1.9 *6*	3053.31	1^+	1734.344	3^+			
1322.4 *3*	3.5 *9*	3053.31	1^+	1730.927	2^+	M1		Mult.: α(K)exp=0.007.
1337.4[e#] *15*	1.8[e]	2853.00	$(1,2)^+$	1515.176	0^+			
1337.4[e#] *15*	1.8[e]	2978.212	1^+	1641.445	2^+			
1341.7 *5*	2.9 *8*	2288.94	2^+	947.243	4^+			
1347.1[e] *5*	5.8[e] *23*	2862.34	$(1,2)^+$	1515.176	0^+			
1347.1[e] *5*	5.8[e] *23*	2978.212	1^+	1630.899	1^+			

From ENSDF

$^{200}_{80}Hg_{120}$-12

^{199}Hg(n,γ) E=th:secondary 1974Br02 (continued)

$\gamma(^{200}Hg)$ (continued)

E_γ †	I_γ †[d]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[a]	δ[b]	Comments
1350.4 *2*	12.5 *13*	1718.305	1^+	367.943	2^+	M1+E2	−0.036 *24*	Mult.: α(K)exp=0.0054 *10*; $\gamma\gamma(\theta)$ in 2011Be36, 1989Ah01, 1974Br02. δ: From 1989Ah01. Other: +0.03 *5* in 2011Be36.
1363.2 *2*	18.0 *22*	1730.927	2^+	367.943	2^+	M1+E2	−0.32 *+6−10*	Mult.: α(K)exp=0.0056 *9* (1987Su15) and 0.0064 *13* (1974Br02); $\gamma\gamma(\theta)$ in 2011Be36, 1989Ah01, 1974Br02. δ: Other: −0.38 *15* (2011Be36).
1366.8[e] *7*	1.8[e]	1734.344	3^+	367.943	2^+			
1366.8[e] *7*	1.8[e]	2937.55	$1^+,2^+$	1570.277	1^+			
1366.8[e] *7*	1.8[e]	2960.14	1^-	1593.428	2^+			
1385.0[e] *3*	6.0[e] *12*	2331.777	2^+	947.243	4^+	(E2)		Mult.: α(K)exp=0.0040 *10*.
1385.0[e] *3*	6.0[e] *12*	2639.924	1^+	1254.100	2^+	(E2)		Mult.: α(K)exp=0.0040 *10*.
1408.0 *2*	32 *3*	2978.212	1^+	1570.277	1^+	E2+M1	+1.44 *+21−10*	Mult.: α(K)exp=0.0040 *6*; $\gamma\gamma(\theta)$ (1989Ah01). δ: $\gamma\gamma(\theta)$ in 1989Ah01.
[x]1420.5[@]	<1							
1422.4[e] *3*	1.5[e] *5*	2937.55	$1^+,2^+$	1515.176	0^+			
1422.4[e] *3*	1.5[e] *5*	3053.31	1^+	1630.899	1^+			
[x]1426.4 *6*	1							
1432.2[e#] *2*	4.0[e] *8*	2461.83	(1^+)	1029.346	0^+	(M1)		Mult.: α(K)exp=0.0040.
1432.2[e#] *2*	4.0[e] *8*	3073.82	1^+	1641.445	2^+			
1432.2[e#] *2*	4.0[e] *8*	3288.92	1^+	1856.783	0^+	(M1)		Mult.: α(K)exp=0.0040.
1442.5[e] *10*	≈1[e]	2697.138	$(1,2)^+$	1254.100	2^+			
1442.5[e] *10*	≈1[e]	3073.82	1^+	1630.899	1^+			
1447.5[#] *7*	1.9 *6*	2701.36	2^+	1254.100	2^+			
[x]1458.2 *15*	1.2							
1462.5 *15*	1.9 *6*	2978.212	1^+	1515.176	0^+			
1467.6 *3*	9.4 *14*	3186.33	1^+	1718.305	1^+	M1+E2		Mult.: α(K)exp=0.0036 *10*.
1479.6 *15*	0.65 *20*	1845.778	3^+	367.943	2^+			I_γ: From adopted gammas.
1479.6[f g] *15*	1[f]	3053.31	1^+	1573.666	2^+			
1488.5 *4*	10.0 *20*	1856.783	0^+	367.943	2^+	E2		Mult.: α(K)exp=0.0028 *10*; $\gamma\gamma(\theta)$ in 1989Ah01, 1974Br02.
1503.2 *4*	6.5 *13*	3073.82	1^+	1570.277	1^+	E2		Mult.: α(K)exp=0.0018.
1514.8 *3*	9.0 *18*	1882.860	2^+	367.943	2^+	M1+E2+E0	+0.12 *5*	Mult.: α(K)exp=0.0070 *17*; $\gamma\gamma(\theta)$ (2011Be36,1989Ah01,1974Br02). δ: Other: +0.10 *4* (2011Be36) and +0.120 *+43−47* (1989Ah01).
1515.01[g]		1515.176	0^+	0.0	0^+	E0		Mult.: From 1987Su15; ce(K)(1515.0)/ce(K)(886.2)=0.068 *3* (1987Su15).
[x]1525.9 *3*	1.8 *6*							
1538.2[e] *5*	2.0[e] *6*	3053.31	1^+	1515.176	0^+			
1538.2[e] *5*	2.0[e] *6*	3269.41	1^+	1730.927	2^+			
1538.2[e] *5*	2.0[e] *6*	3655.05	$(1)^+$	2116.547	0^+			
[x]1543.1 *5*	6.0 *12*							

From ENSDF

$^{200}_{80}Hg_{120}$-13

^{199}Hg(n,γ) E=th:secondary 1974Br02 (continued)

γ(^{200}Hg) (continued)

E_γ †	I_γ †[d]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[a]	δ[b]	Comments
[x]1546.1 *7*	2.5							
[x]1550.1 *6*	3.0 *9*							
[x]1553.7 *7*	2.5							
1557.7 *3*	10.0 *20*	3216.75	$(2)^+$	1659.007	3^+			Mult.: α(K)exp=0.0037.
1557.7[e] *3*	10.0[e] *20*	3288.92	1^+	1730.927	2^+	M1		Mult.: α(K)exp=0.0037.
1570.45 *15*	93 *10*	1570.277	1^+	0.0	0^+	M1		Mult.: α(K)exp=0.0036 *4*.
[x]1589.8 *5*	0.8							
1604.5 *2*	12.0 *18*	1972.279	$(2)^+$	367.943	2^+	M1+E2	+0.15[c] *4*	Mult.: α(K)exp=0.0032 *8*; γγ(θ) (2011Be36,1989Ah01,1974Br02). δ: Other: +0.87 *+18−14* (1989Ah01).
1610.9[e] *6*	2.4[e] *7*	2639.924	1^+	1029.346	0^+			
1610.9[e] *6*	2.4[e] *8*	3269.41	1^+	1659.007	3^+			
1623.5[e‡#] *3*	6.7[e] *14*	2877.878	1^+	1254.100	2^+			α(K)exp<0.003.
1623.5[e‡#] *3*	6.7[e] *14*	3216.75	$(2)^+$	1593.428	2^+			α(K)exp<0.003.
1630.7 *4*	5.6 *12*	1630.899	1^+	0.0	0^+	(M1)		Mult.: α(K)exp>0.0018.
[x]1633.6 *7*	2.9 *12*							
1638.3[#] *5*	3.5 *9*	3269.41	1^+	1630.899	1^+			
1647.2 *3*	1.9 *6*	3288.92	1^+	1641.445	2^+			
1658.2 *3*	1.4 *5*	3288.92	1^+	1630.899	1^+			
1667.8[@g]		2697.138	$(1,2)^+$	1029.346	0^+			E_γ: Not observed by 1987Su15.
[x]1669.6[#] *15*	1							
1676.3 *3*	3.0 *8*	3269.41	1^+	1593.428	2^+			
1681.1[#] *15*	1.9	3655.05	$(1)^+$	1974.337	$(3)^+$			
[x]1685.5 *10*	2.8 *12*							
1693.13 *14*	165 *17*	2061.255	1^+	367.943	2^+	M1(+E2)	−0.03[c] *2*	Mult.: α(K)exp=0.0031 *4*; γγ(θ) (2011Be36,1989Ah01,1974Br02). δ: Other: +0.003 *13* (1989Ah01).
1699.1 *10*	1	3269.41	1^+	1570.277	1^+			
1706.6 *3*	7.6 *12*	2074.333	$(2)^+$	367.943	2^+			α(K)exp<0.0017.
1711.7 *5*	4.8 *12*	3353.05	1^+	1641.445	2^+			
1715.2[g] *10*	≈1	3288.92	1^+	1573.666	2^+			
1718.6 *4*	23 *4*	1718.305	1^+	0.0	0^+	(M1)		Mult.: α(K)exp>0.0027.
1722.2[e] *6*	8.2[e] *21*	3353.05	1^+	1630.899	1^+			
1722.2[e] *6*	8.2[e] *21*	3452.96	$(1)^+$	1730.927	2^+			
1733.7[g] *10*	1	2763.094	$(1,2)^+$	1029.346	0^+			
[x]1740.2[g] *15*	1							
1745.9[g] *15*	1	2114.356	3^+	367.943	2^+			
1754.6[e] *7*	2.6[e] *11*	2701.36	2^+	947.243	4^+			
1754.6[e] *7*	2.6[e] *11*	3269.41	1^+	1515.176	0^+			
1759.3[e‡#] *3*	5.5[e]	2126.855	2^+	367.943	2^+	M1(+E2)		Mult.: α(K)exp<0.0011.
1759.3[e‡#] *3*	5.5[e]	2127.932	$(2,3)^+$	367.943	2^+	M1(+E2)		Mult.: α(K)exp<0.0011.

From ENSDF

$^{200}_{80}Hg_{120}$-14

^{199}Hg(n,γ) E=th:secondary 1974Br02 (continued)

$\gamma(^{200}Hg)$ (continued)

E_γ †	I_γ †[d]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[a]	δ[b]	Comments
1771.9 *7*	2.9 *12*	3655.05	$(1)^+$	1882.860	2^+			
1783.3 *10*	1.5	3353.05	1^+	1570.277	1^+			
[x]1796.0 *7*	2							
1799.2 *5*	3.3 *10*	3053.31	1^+	1254.100	2^+			
1811.2 *4*	3.0 *6*	3452.96	$(1)^+$	1641.445	2^+			
1822.3[e] *7*	2.1[e] *7*	2189.474	1^+	367.943	2^+			
1822.3[e] *7*	2.1[e] *7*	3452.96	$(1)^+$	1630.899	1^+			
[x]1825.9 *5*	3.3 *9*							
[x]1829.8 *7*	1.8 *7*							
1838.1[#] *15*	1.5	3353.05	1^+	1515.176	0^+			
1857.4[@]		1856.783	0^+	0.0	0^+	E0		ce(K)(1857.4)/ce(K)(886.2)=0.19 *1* (1987Su15).
[x]1860.4[#] *3*	4.7							
1879.3[e‡#] *3*	1.2[e]	2246.446	$(1,2)^+$	367.943	2^+			
1879.3[e‡#] *3*	1.2[e]	3655.05	$(1)^+$	1775.564	3^+			
1906.2 *3*	5.6 *9*	2274.227	$(2)^+$	367.943	2^+	E2		Mult.: α(K)exp=0.0011; $\gamma\gamma(\theta)$ in 1974Br02.
1921.1 *3*	4.4 *7*	2288.94	2^+	367.943	2^+	(E2)		Mult.: α(K)exp<0.0014.
1928.2 *3*	1.9 *6*	2296.34	1^+	367.943	2^+			
[x]1957.6 *7*	1.3							
1963.5 *4*	2.6 *6*	2331.777	2^+	367.943	2^+			
[x]1970.9 *7*	1.3							
1975.8 *3*	3.9 *8*	2343.593	$1^+,2^+,3^+$	367.943	2^+	M1(+E2)		Mult.: α(K)exp=0.0038 *16*.
[x]1984.5[#] *7*	1.6 *6*							
2002.1 *2*	77 *8*	2370.041	1^+	367.943	2^+	M1(+E2)	−0.014 *19*	Mult.: α(K)exp=0.0018 *3*; $\gamma\gamma(\theta)$ (1989Ah01,1974Br02). δ: $\gamma\gamma(\theta)$ in 1989Ah01.
2020.6 *7*	3.4 *7*	2388.69	$(1,2,3)^+$	367.943	2^+	M1+E2		Mult.: α(K)exp=0.0018.
[x]2032.6 *4*	2.0 *6*							
2044.2[e] *5*	2.0[e] *6*	2411.828	$(2)^+$	367.943	2^+			
2044.2[e] *5*	2.0[e] *6*	3073.82	1^+	1029.346	0^+			
[x]2063.7 *6*	1.4							
[x]2082.9 *7*	1.7							
2093.6 *4*	4.2 *9*	2461.83	(1^+)	367.943	2^+			α(K)exp<0.0015.
[x]2107.8 *3*	4.5 *9*							α(K)exp<0.0015.
2116.85		2116.547	0^+	0.0	0^+	E0		α(K)exp(2116.8)/ce(K)(886.2)=0.035 *3* (1987Su15).
[x]2118.4[@]	<1.5							
2123.9 *7*	4.2 *9*	2491.425	$(2)^+$	367.943	2^+	(E2)		Mult.: α(K)exp=0.0012.
2139.7[#] *3*	5.0 *10*	3655.05	$(1)^+$	1515.176	0^+			α(K)exp<0.0013.
[x]2161.4 *7*	3.5 *13*							
[x]2180.8 *5*	5.0 *10*					E2		Mult.: α(K)exp=0.0013.
2188.7 *6*	4.3 *9*	2189.474	1^+	0.0	0^+	M1		Mult.: α(K)exp=0.0032 *10*.

From ENSDF

$^{200}_{80}Hg_{120}$-15

^{199}Hg(n,γ) E=th:secondary 1974Br02 (continued)

$\gamma(^{200}Hg)$ (continued)

E_γ †	I_γ †[d]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[a]	δ[b]	Comments
[x]2194.4 *5*	2.2							
[x]2204.6 *10*	1.5 *6*							
2240.6 *7*	3.0 *9*	3269.41	1^+	1029.346	0^+			
2246[g] *2*		2246.446	$(1,2)^+$	0.0	0^+			
[x]2251.4 *10*	4.8 *17*							
2259.5 *5*	5.6 *12*	3288.92	1^+	1029.346	0^+	(M1)		Mult.: α(K)exp=0.0013 *3*.
2271.5 *4*	19 *3*	2639.924	1^+	367.943	2^+	M1+E2	−0.43 *+6−5*	Mult.: α(K)exp=0.0011 *2*; $\gamma\gamma(\theta)$ (1989Ah01). δ: $\gamma\gamma(\theta)$ in 1989Ah01.
[x]2283.0 *4*	6.1 *13*					(E1)		Mult.: α(K)exp<0.0006.
2289.6 *7*	1.5	2288.94	2^+	0.0	0^+			
2296.3 *3*	9.5 *10*	2296.34	1^+	0.0	0^+	M1		Mult.: α(K)exp=0.0015 *5*.
[x]2304.7 *7*	1.1 *4*							
2323.5[e#] *4*	3.5[e] *9*	2691.58	$(1,2)^+$	367.943	2^+			α(K)exp=0.0006.
2323.5[e#] *4*	3.5[e] *9*	3353.05	1^+	1029.346	0^+			α(K)exp=0.0006.
[x]2346.5 *6*	2.3 *6*							
[x]2365.2 *7*	1.6 *5*							
2370.0 *3*	3.3 *7*	2370.041	1^+	0.0	0^+	(M1)		Mult.: α(K)exp=0.0012.
[x]2401.9 *4*	2.4 *5*					E2		Mult.: α(K)exp=0.0009 *4*.
2423.7[#] *7*	3.2 *10*	3452.96	$(1)^+$	1029.346	0^+			α(K)exp<0.0006.
2442.6[#] *3*	6.2 *10*	2442.71?	1^-	0.0	0^+	E1		Mult.: α(K)exp=0.0002.
[x]2449.8 *5*	1.6							
2462.6[e#] *15*	1.9[e] *8*	2461.83	(1^+)	0.0	0^+			α(K)exp=0.0012.
2462.6[e#] *15*	1.9[e] *8*	3492.60	1^+	1029.346	0^+			α(K)exp=0.0012.
[x]2468.0 *15*	1.6							
[x]2475.8 *15*	2							
[x]2480.2 *15*	2.0 *7*							
2485.3 *15*	2.0 *7*	2853.00	$(1,2)^+$	367.943	2^+	M1+E2		Mult.: α(K)exp=0.0011.
[x]2502.6[#] *15*	1.7							
[x]2513.1 *7*	2.0 *6*							
[x]2524.3 *7*	2.0 *7*							
[x]2528.7 *4*	4.6 *7*					E1		Mult.: α(K)exp=0.0005 *2*.
[x]2538.0 *5*	2.5 *7*							
[x]2544.5[#] *7*	2.5 *8*							
[x]2559.0 *10*	1.3							
[x]2564.8 *7*	2.9 *8*					E1		Mult.: α(K)exp=0.0004.
2569.1 *5*	4.2 *9*	2937.55	$1^+,2^+$	367.943	2^+			α(K)exp<0.0003.
[x]2578.4 *3*	3.4 *7*					E1		Mult.: α(K)exp<0.0003.
2590.5 *3*	6.1 *6*	2590.86	1^-	0.0	0^+	E1		Mult.: α(K)exp<0.0002.
[x]2606.7 *10*	1.7 *6*							

From ENSDF

$^{200}_{80}Hg_{120}$-16

^{199}Hg(n,γ) E=th:secondary 1974Br02 (continued)

γ(^{200}Hg) (continued)

E_γ [†]	I_γ [†d]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[a]	Comments
2611.0 *7*	3.0 *6*	2978.212	1^+	367.943	2^+		
x2620.9 *4*	3.5 *9*						
2625.5 *7*	2.6 *8*	3655.05	$(1)^+$	1029.346	0^+		
2639.9 *2*	33 *4*	2639.924	1^+	0.0	0^+	M1	Mult.: α(K)exp=0.00105 *15*.
x2648.9 *5*	3.0 *6*						
x2695.0 *15*	1.5						
x2699.3 *15*	1.5						
x2704.6 *3*	1.8						
x2727.2 *3*	4.0 *10*						
x2735.8 *5*	2.7 *6*						
x2742.7[g] *7*	1.4						
x2756.2 *15*	3.2						
2764.0 *15*	1.8	2763.094	$(1,2)^+$	0.0	0^+		
2794.5[#] *4*	2.4 *8*	2794.16	$(1,2)^+$	0.0	0^+		
x2806.5 *4*	2.4 *8*						
2818.6 *3*	12.0 *12*	3186.33	1^+	367.943	2^+	E2(+M1)	Mult.: α(K)exp=0.00063 *15*.
x2827.4[#] *10*	2.8 *9*						
x2831.8[#] *10*	2.8 *9*						
2847.3 *6*	4.2 *9*	2847.62	1^-	0.0	0^+	E1	Mult.: α(K)exp<0.0003.
2853.8 *10*	1.4	2853.00	$(1,2)^+$	0.0	0^+		
2862.4 *15*	0.5	2862.34	$(1,2)^+$	0.0	0^+		
x2872.7 *10*	1.4						
x2880.7 *10*	2.8 *10*						
x2883.4 *5*	3.3 *10*					E1	Mult.: α(K)exp<0.0004.
2901.3 *3*	14.0 *14*	3269.41	1^+	367.943	2^+	E2(+M1)	Mult.: α(K)exp=0.00067 *10*.
2921.1 *3*	16.0 *16*	3288.92	1^+	367.943	2^+	E2(+M1)	Mult.: α(K)exp=0.00064 *17*.
x2928.6 *10*	2.9 *9*						
2937.2 *10*	1.5	2937.55	$1^+,2^+$	0.0	0^+		
x2953.8 *10*	2.0 *6*						
2960.2 *3*	9.5 *15*	2960.14	1^-	0.0	0^+	E1	Mult.: α(K)exp<0.00013.
2978.5 *6*	3.0 *6*	2978.212	1^+	0.0	0^+		
x2985.8 *3*	3.5 *7*					M1	Mult.: α(K)exp=0.0008.
x2993.8 *5*	2.0 *5*						
x3033.6 *4*	10.4 *21*					E1	Mult.: α(K)exp<0.00016.
x3051.1 *8*	6.7 *14*					E2	Mult.: α(K)exp=0.00058 *25*.
3074.2 *6*	5.0 *10*	3073.82	1^+	0.0	0^+	M1	Mult.: α(K)exp=0.00074 *22*.
x3093.1 *12*	2.9 *9*						
x3112.2 *10*	3.6 *11*						
3185.8 *4*	30 *3*	3186.33	1^+	0.0	0^+	M1	Mult.: α(K)exp=0.00072 *10*.
3216.9 *8*	9.3 *19*	3216.75	$(2)^+$	0.0	0^+		α(K)exp=0.00058 *20*.

From ENSDF

$^{200}_{80}Hg_{120}$-17

$\gamma(^{200}Hg)$ (continued)

E_γ †	I_γ †d	E_i(level)	J_i^π	E_f	J_f^π	Mult.a	Comments
x3263.3 *15*	2.6						
3269.4 *6*	6.7 *14*	3269.41	1^+	0.0	0^+	M1	Mult.: α(K)exp=0.0010 *3*.
3288.9 *4*	32 *4*	3288.92	1^+	0.0	0^+	M1	Mult.: α(K)exp=0.00078 *12*.

† From 1974Br02 unless otherwise stated. For Eγ<2 MeV cryst. data, for Eγ>2 MeV Ge(Li) data. ΔIγ assumed 40% if not given explicitly by the authors. For other precise γ-ray energies see 1979Br25.

‡ Possible impurity line.

Unresolved multiplet.

@ From 1971Ma10.

& Seen only in resonance capture.

a From α(K)exp in 1974Br02, deduced using Ice of 1969Sc03 for Eγ<1 MeV and Ice of 1971Ma10 for Eγ>1 MeV. Iγ from 1974Br02 were normalized to α(K) for 579γ, assumed to be a pure E2. For multiply placed γ's, these assignments should be considered tentative.

b From $\gamma\gamma(\theta)$ in 1989Ah01, unless otherwise stated.

c From $\gamma\gamma(\theta)$ in 2011Be36.

d For intensity per 100 neutron captures, multiply by 0.065 *10*.

e Multiply placed with undivided intensity.

f Multiply placed with intensity suitably divided.

g Placement of transition in the level scheme is uncertain.

x γ ray not placed in level scheme.

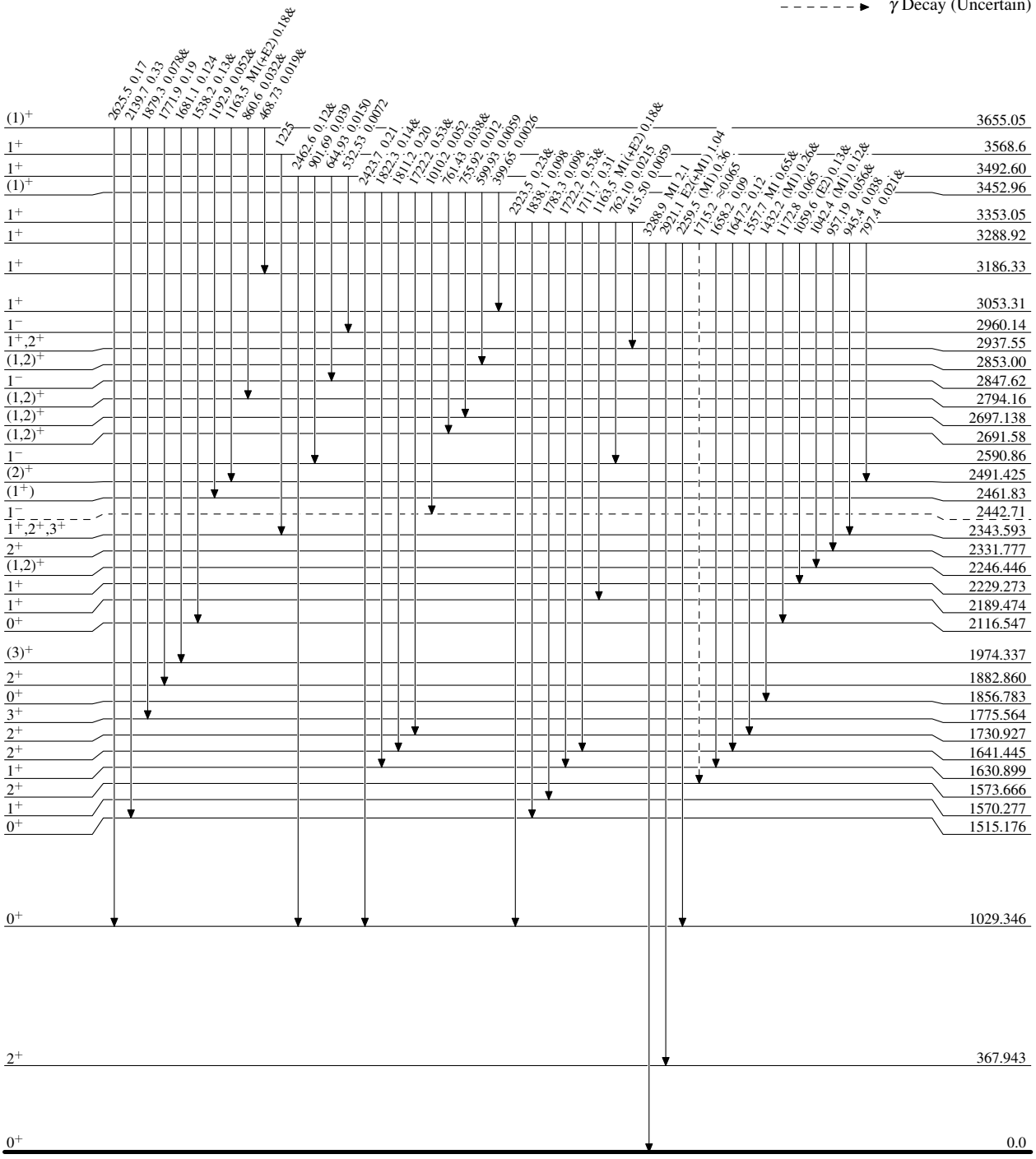
$^{200}_{80}Hg_{120}$-18 From ENSDF $^{200}_{80}Hg_{120}$-18

^{199}Hg(n,γ) E=th:secondary 1974Br02

Level Scheme

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)



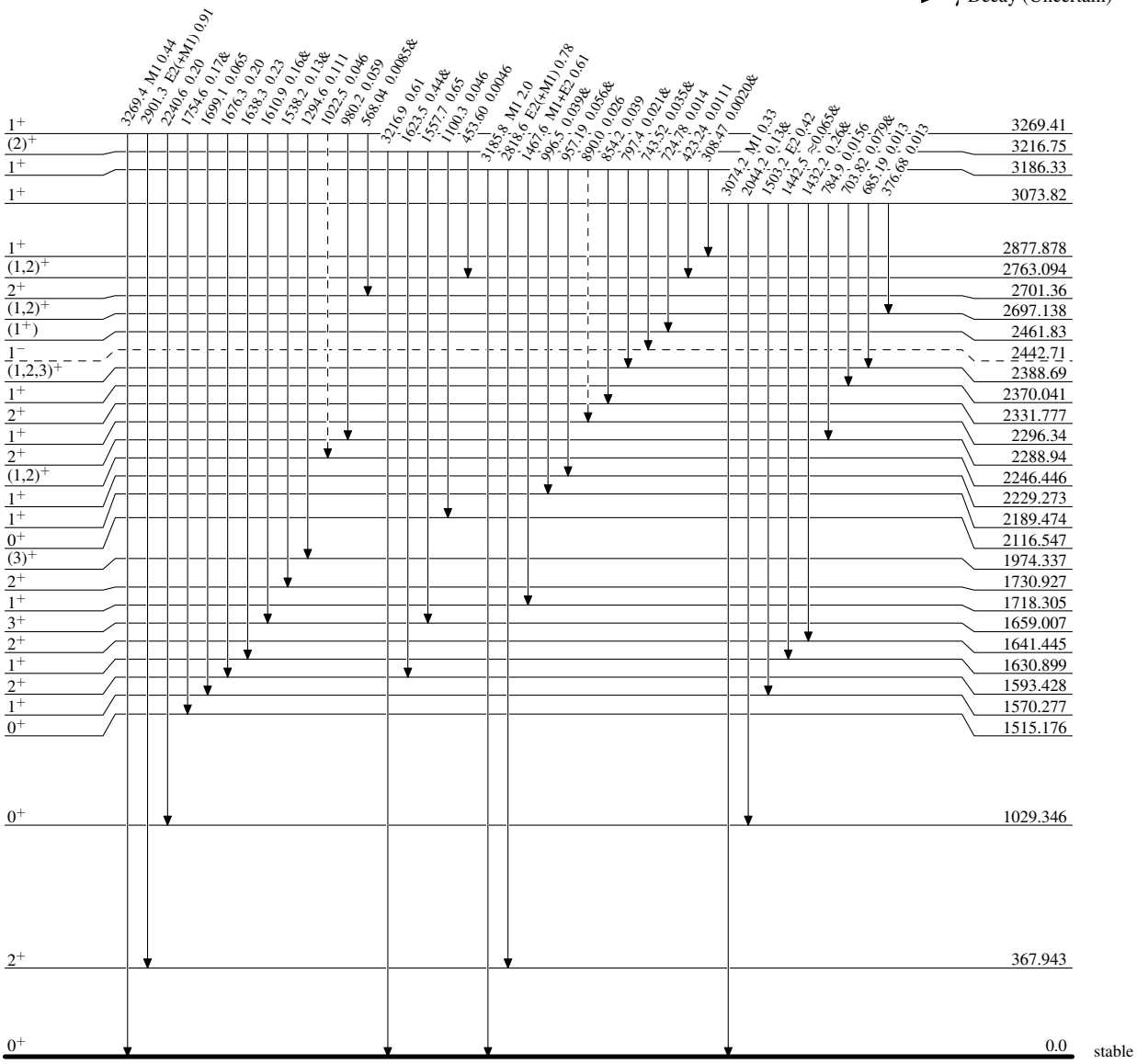
$^{200}_{80}Hg_{120}$

^{199}Hg(n,γ) E=th:secondary 1974Br02

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)



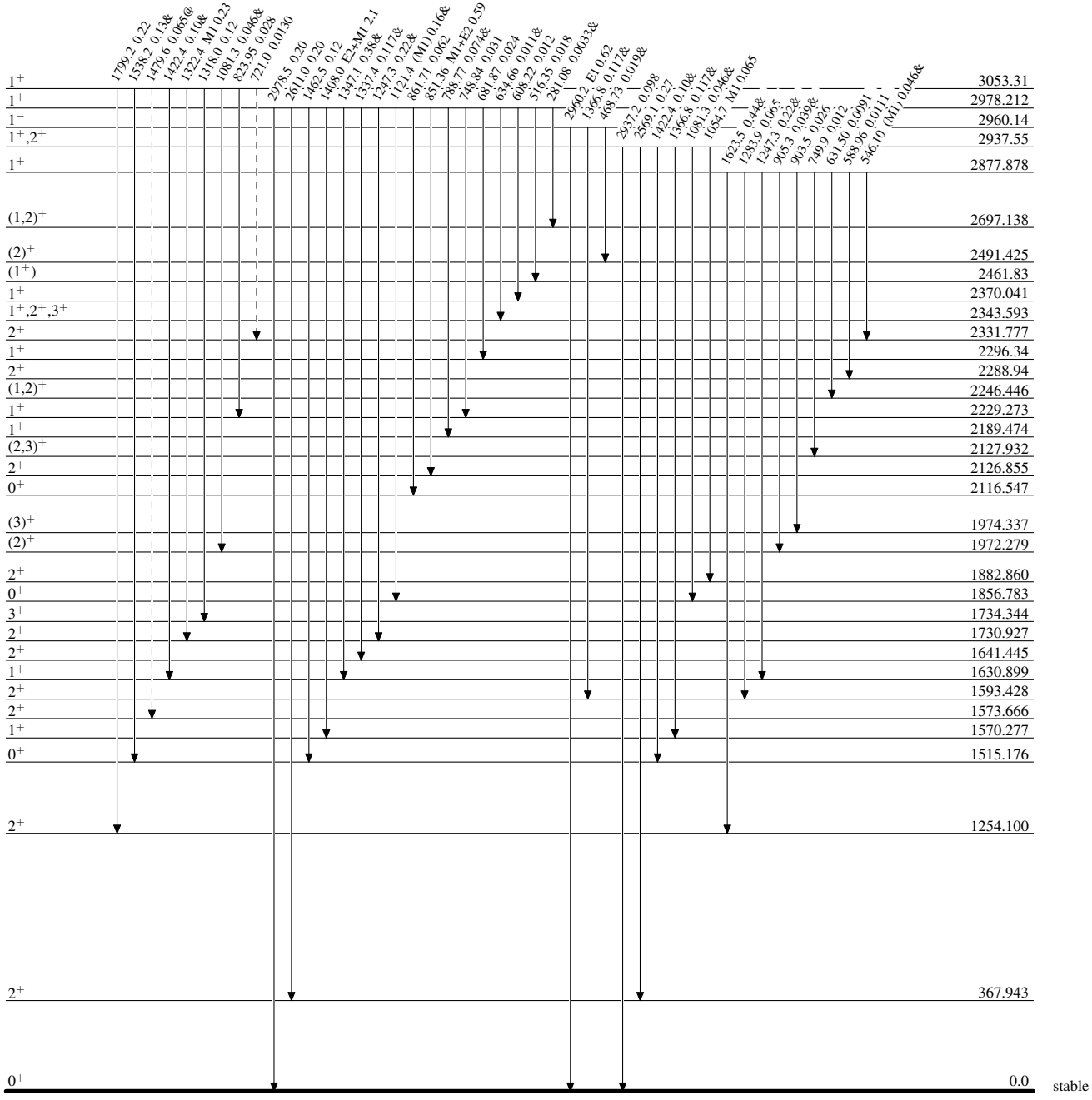
$^{200}_{80}Hg_{120}$

^{199}Hg(n,γ) E=th:secondary 1974Br02

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)



$^{200}_{80}Hg_{120}$

^{199}Hg(n,γ) E=th:secondary 1974Br02

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

Legend
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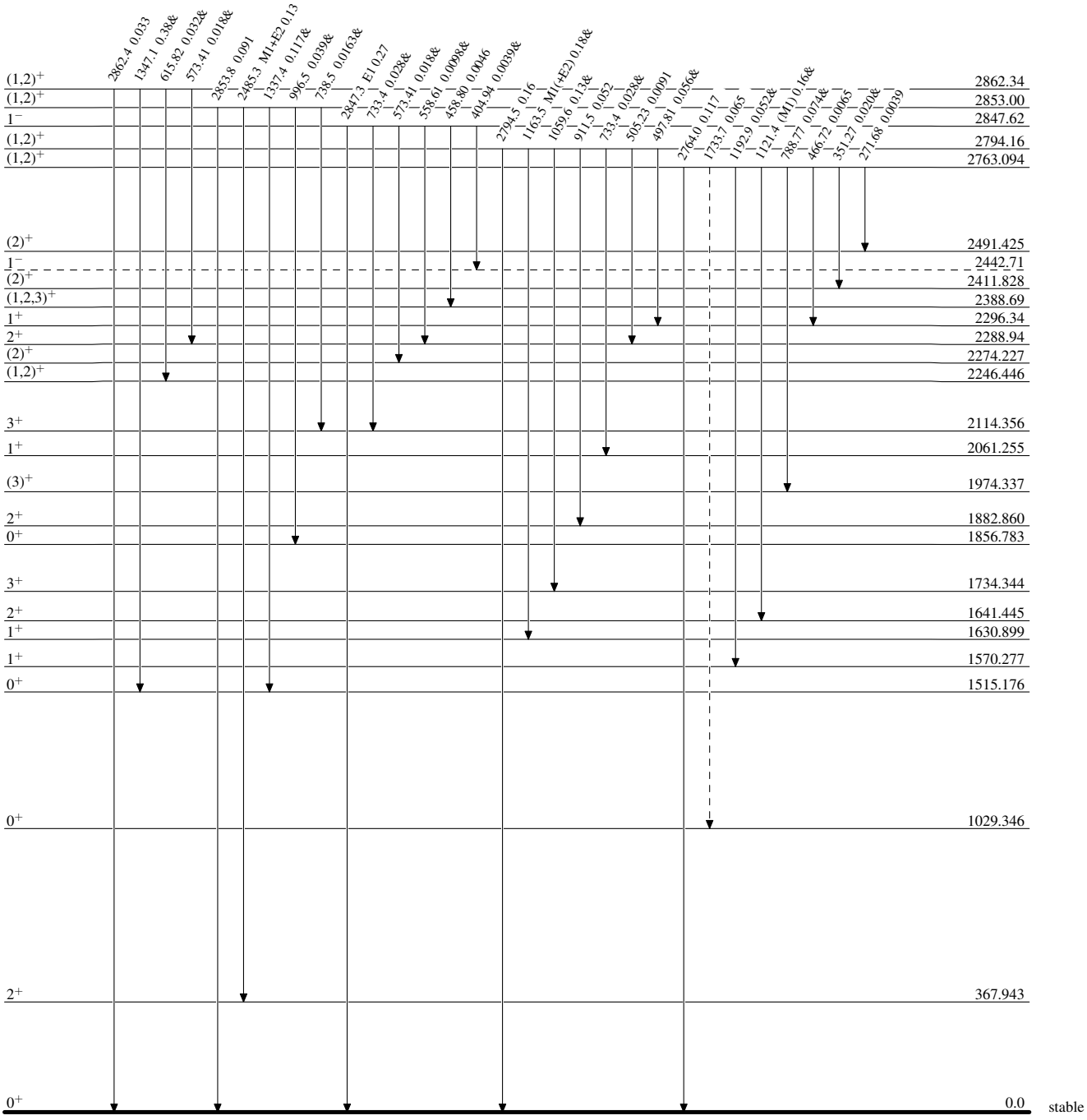
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)



$^{200}_{80}Hg_{120}$

^{199}Hg(n,γ) E=th:secondary 1974Br02

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

Legend
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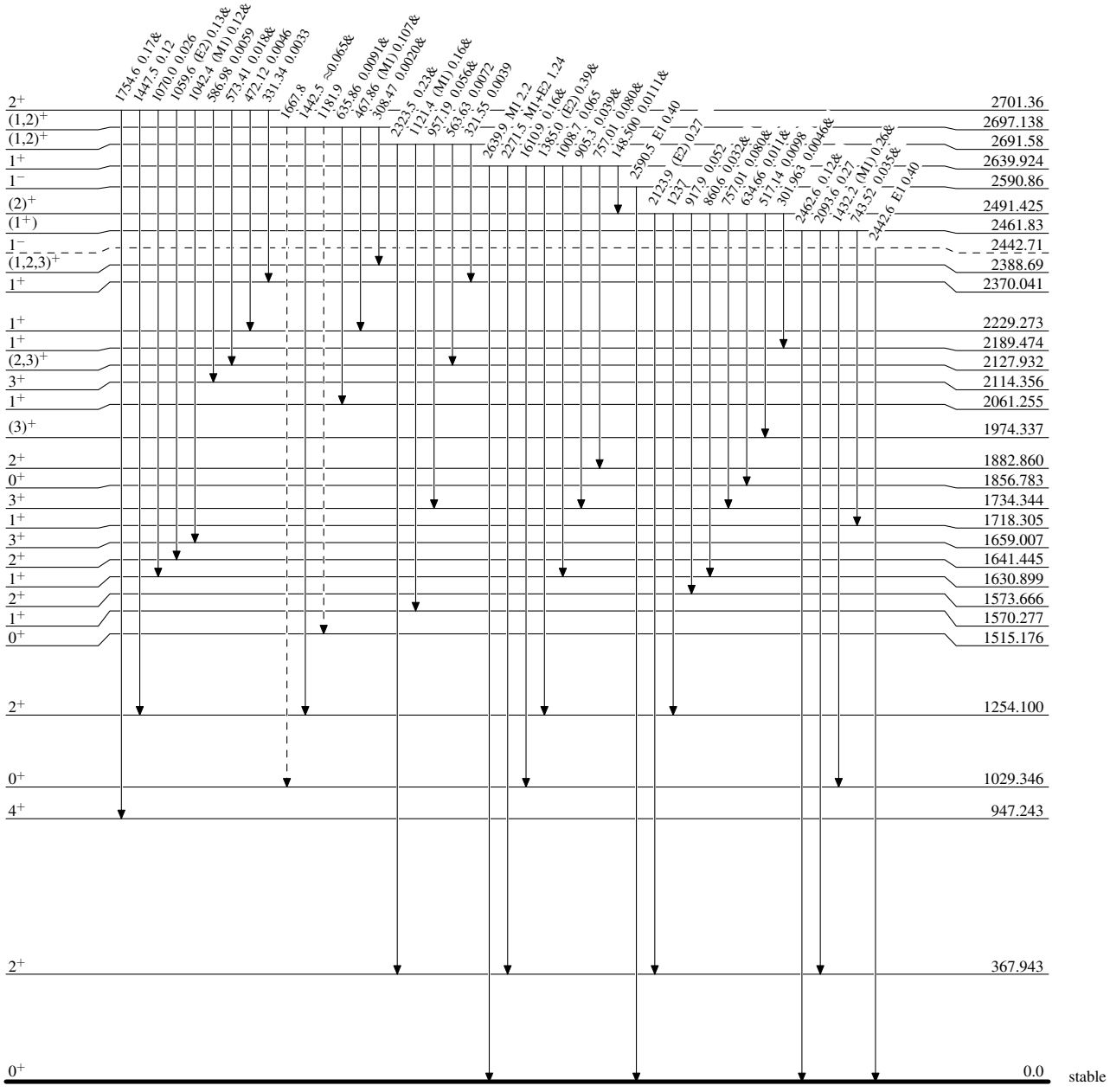
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)



$^{200}_{80}Hg_{120}$

^{199}Hg(n,γ) E=th:secondary 1974Br02

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given
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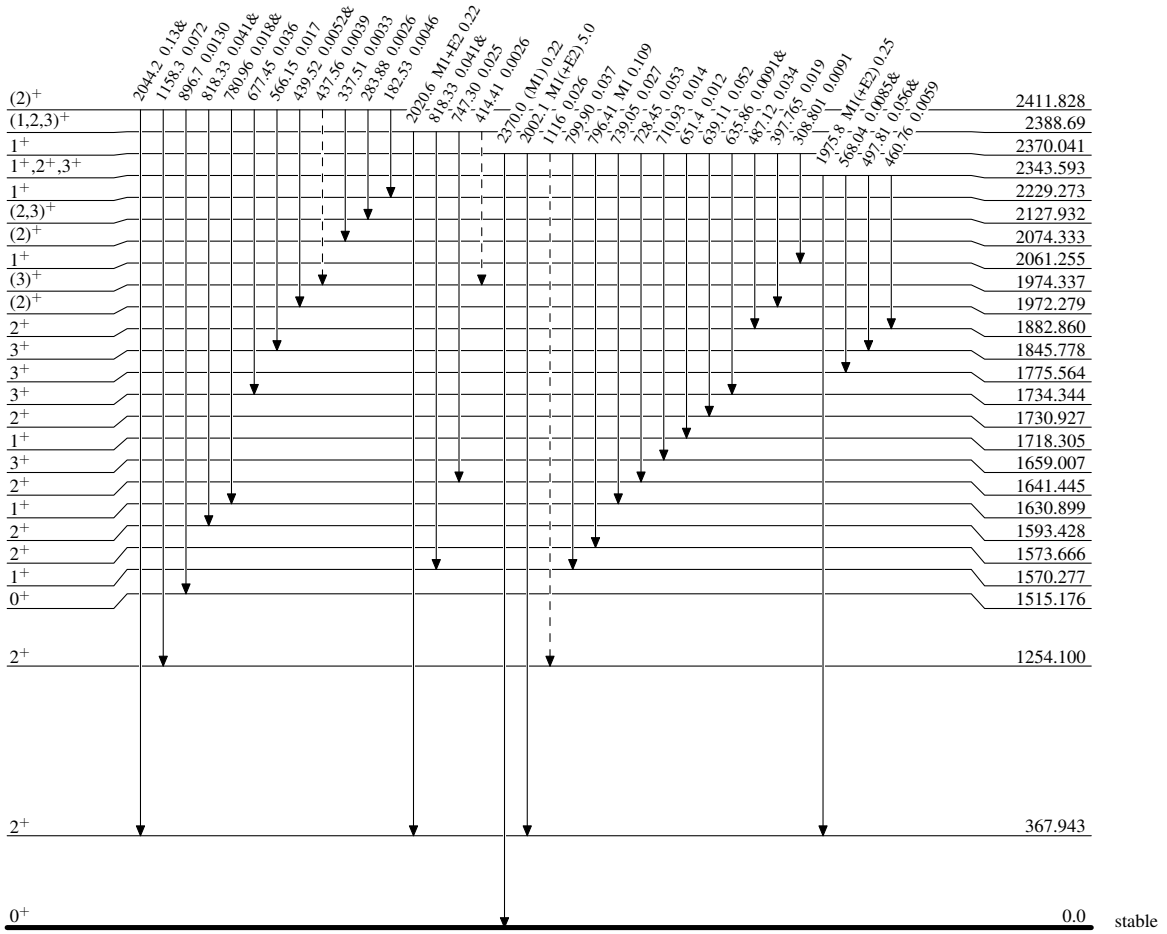
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)

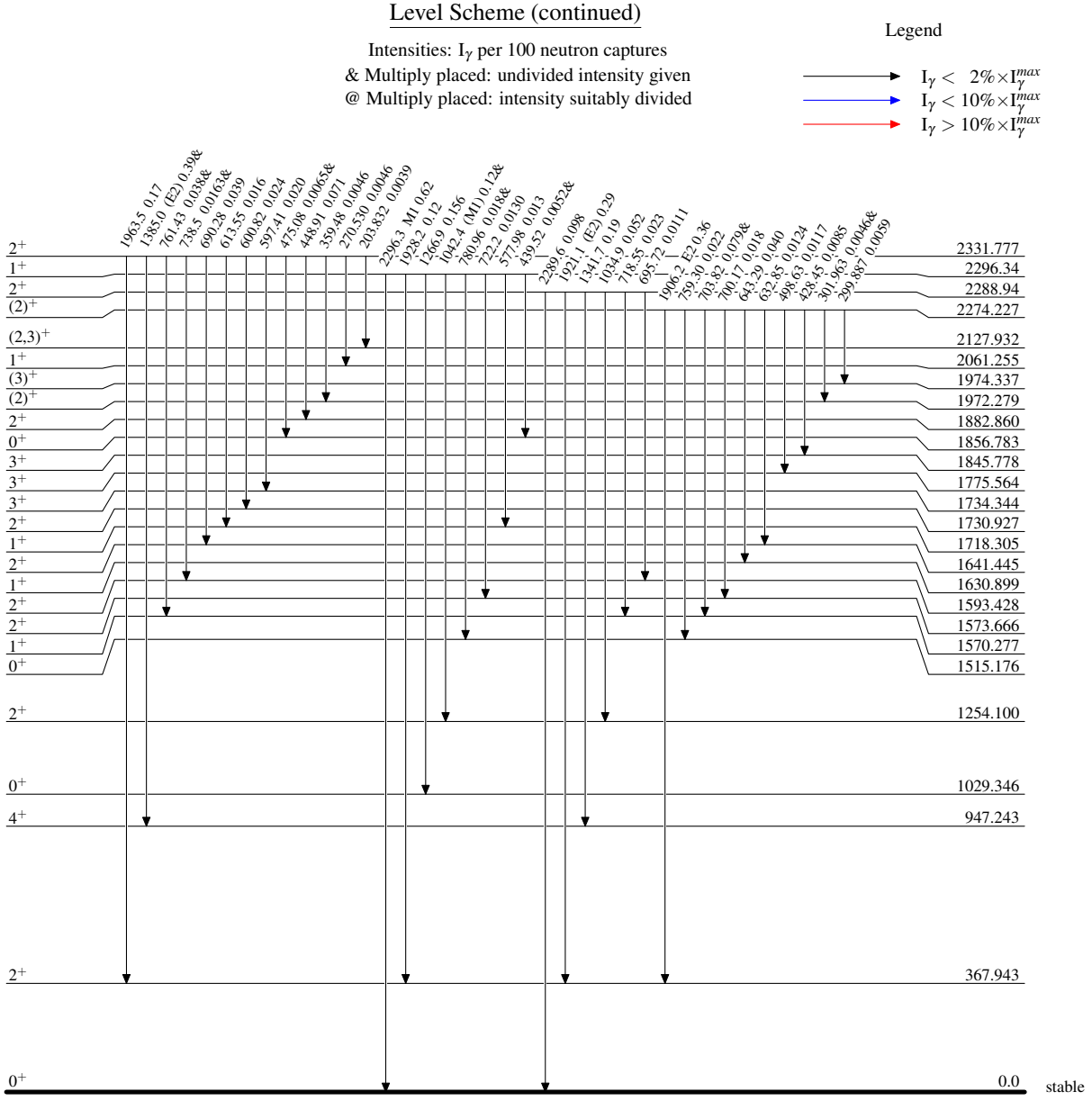


$^{200}_{80}Hg_{120}$

^{199}Hg(n,γ) E=th:secondary 1974Br02

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



$^{200}_{80}Hg_{120}$

^{199}Hg(n,γ) E=th:secondary 1974Br02

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

Legend
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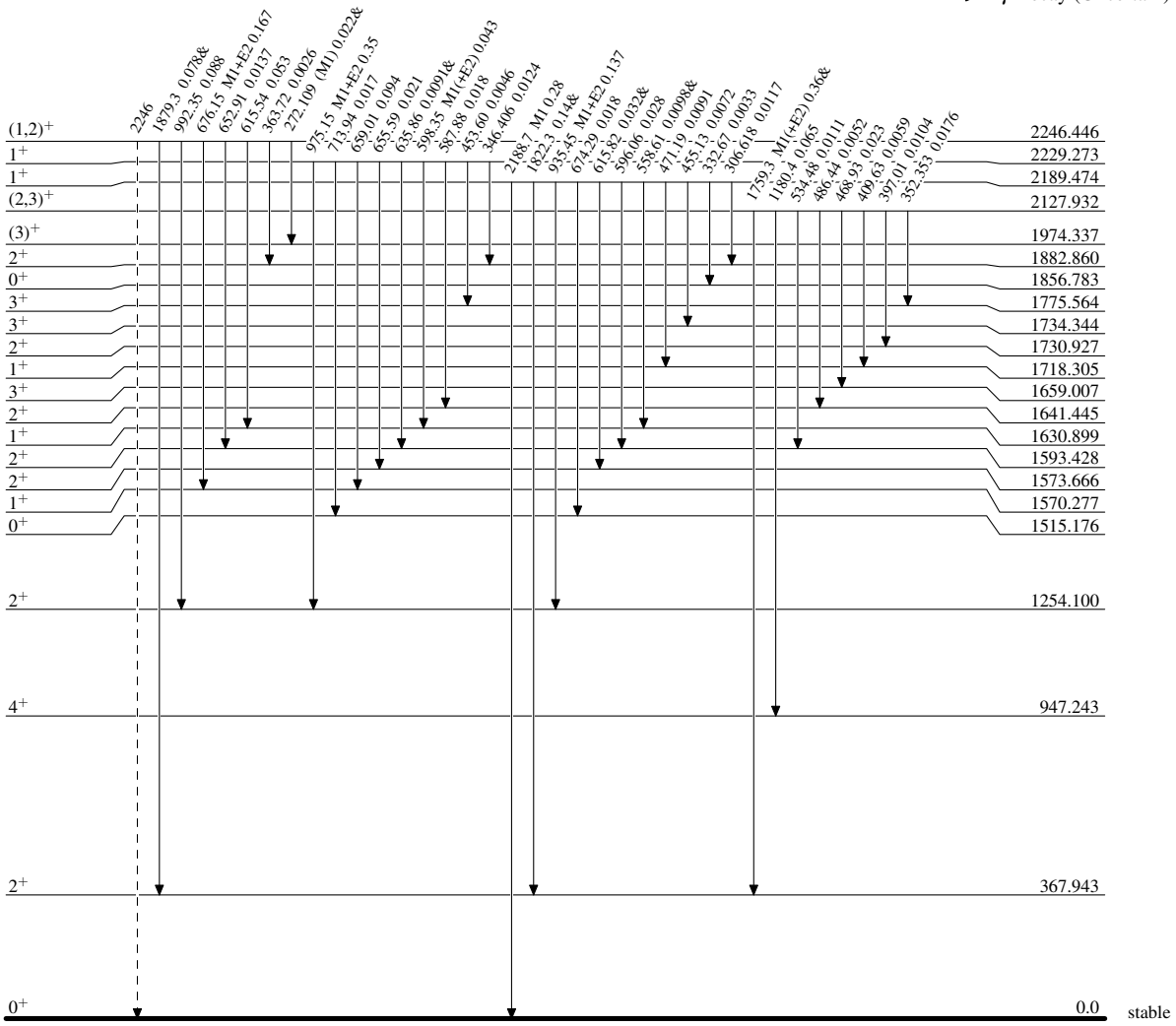
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)



$^{200}_{80}Hg_{120}$

^{199}Hg(n,γ) E=th:secondary 1974Br02

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

Legend
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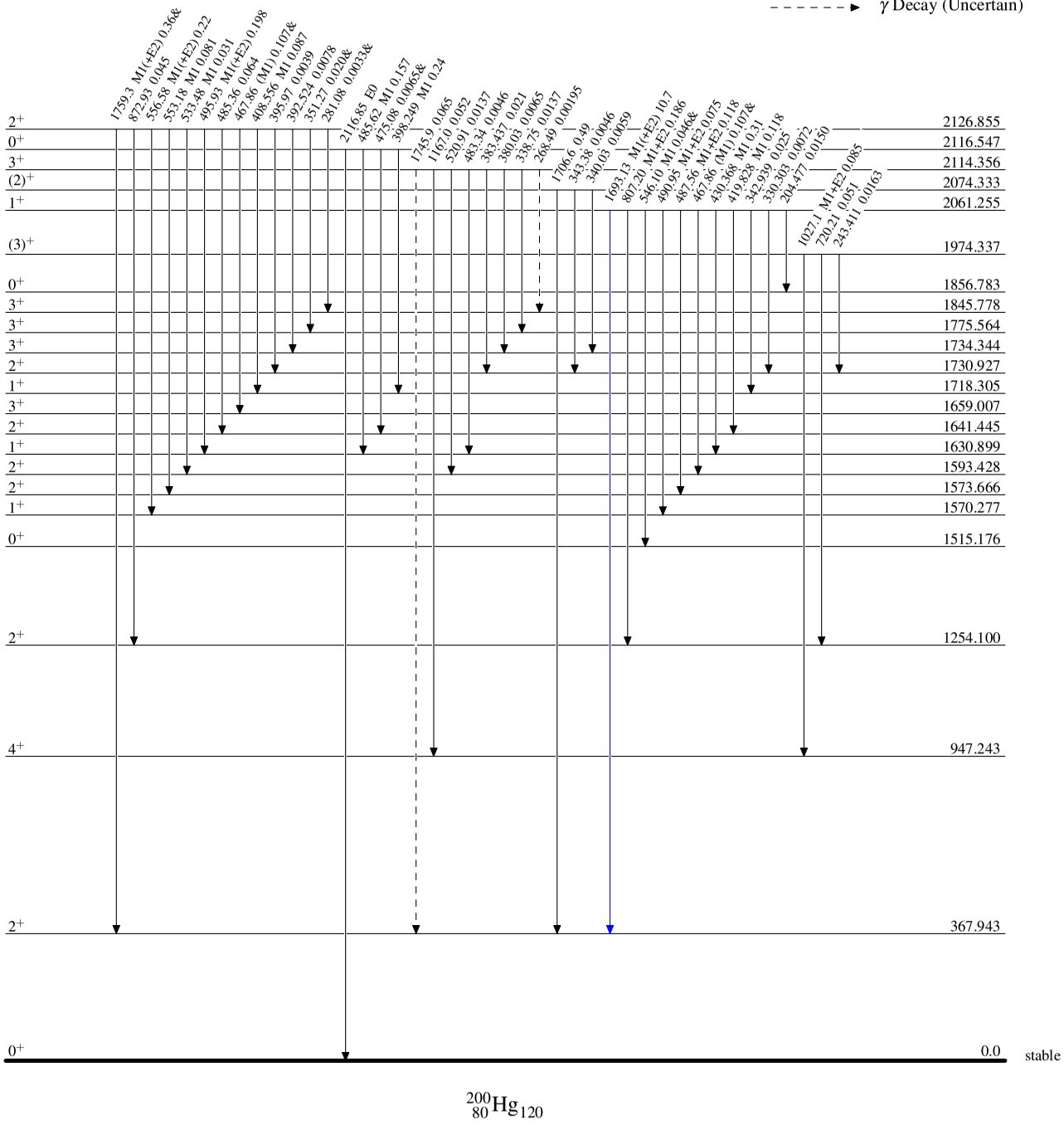
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)



$^{200}_{80}Hg_{120}$

^{199}Hg(n,γ) E=th:secondary 1974Br02

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given
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Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
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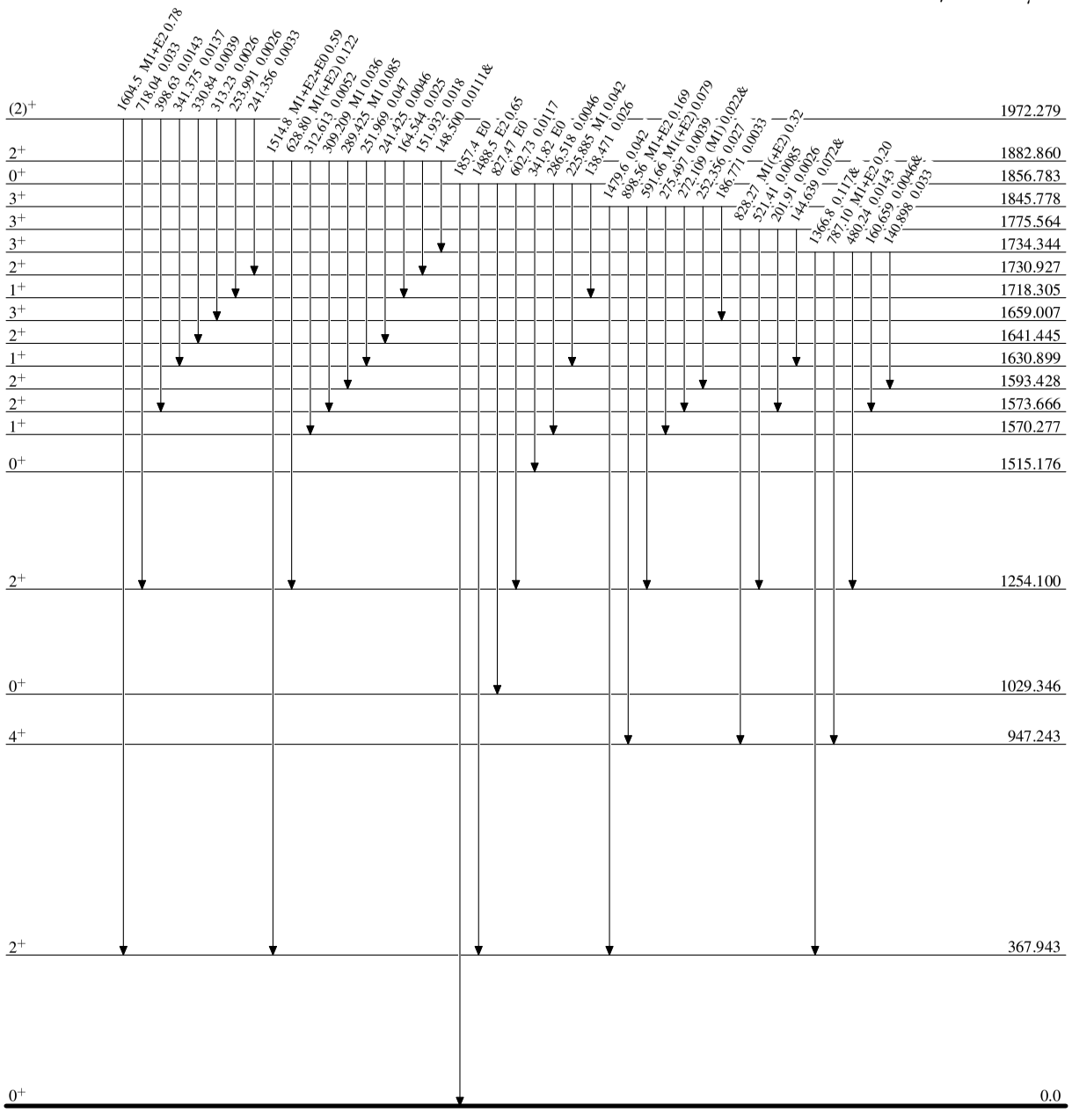

$^{200}_{80}Hg_{120}$

^{199}Hg(n,γ) E=th:secondary 1974Br02

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
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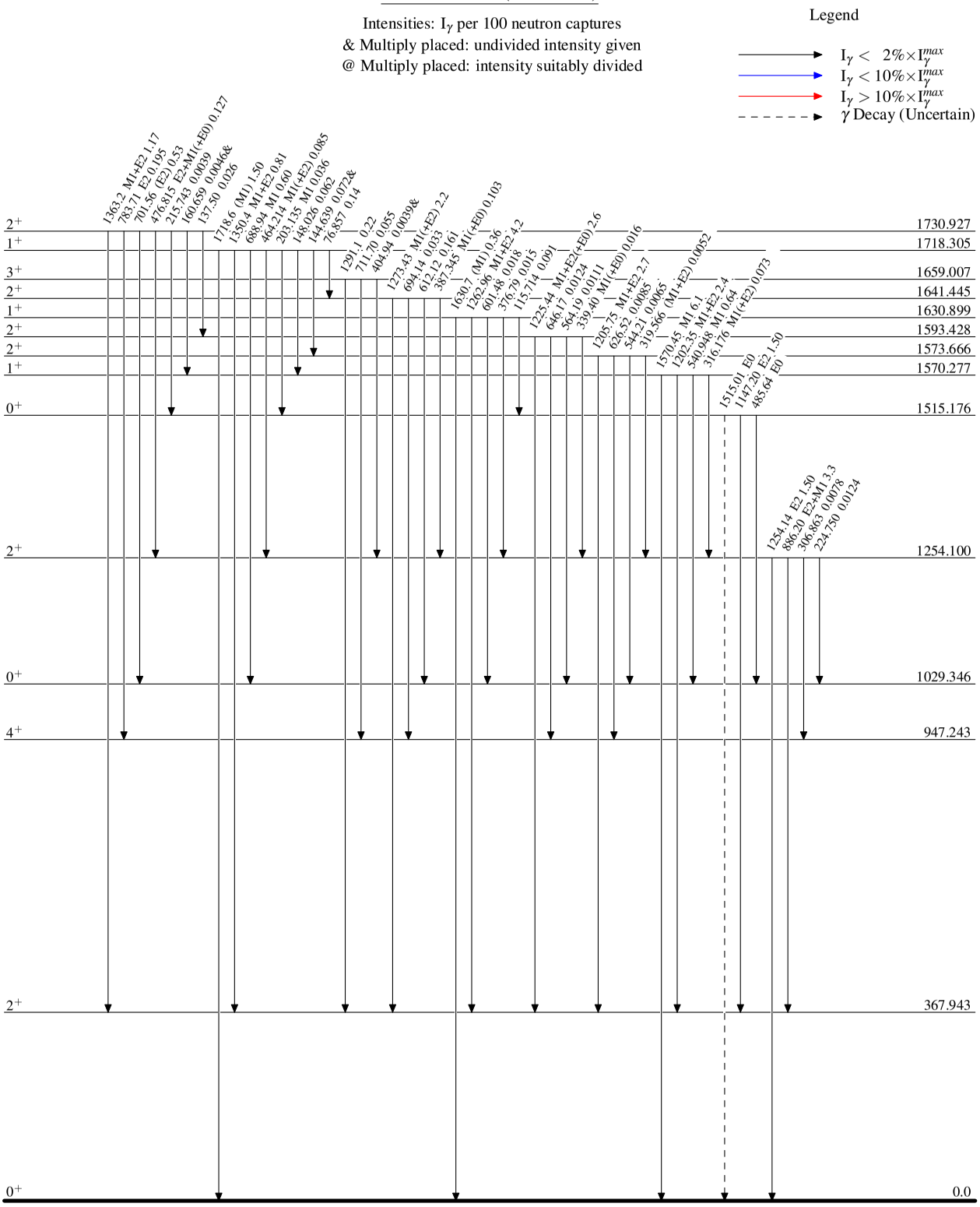

$^{200}_{80}Hg_{120}$

^{199}Hg(n,γ) E=th:secondary 1974Br02

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
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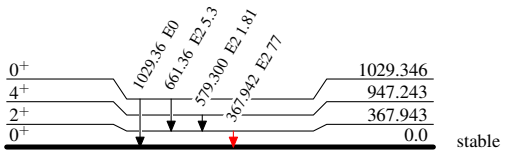

$^{200}_{80}Hg_{120}$