^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02

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

Parent: ^{200}Tl: E=0; $J^\pi=2^-$; $T_{1/2}$=26.1 h *1*; Q(ε)=2456 *6*; %ε+%$β^+$ decay=100

1971Ko03: Source: ^{200}Tl obtained in Au + α at 22 MeV and Hg + d at 14 MeV; Detectors: two Ge(Li), one NaI(Tl), anti-Compton spectrometer and Ge(Li) LEPS detector; Measured: γ, γγ, Eγ, Iγ Deduced: level scheme, J^π.

1971Ha09: Source: ^{200}Tl produced in ^{197}Au(α,n) reaction at E(α)=43 MeV; Detectors: one coaxial Ge(Li) and one NaI(Tl). The two detectors′ front ends were shielded with 1mm Cd to suppress the Hg x-rays; the Ge(Li) was shielded by a lead cone; Measured: γ, γγ γγ(θ), Eγ; Deduced: level scheme, J^π, δ.

1965Sa02: Source: ^{200}Pb source is obtained in Tl(p,xn)Pb reaction at E(p)=56 MeV. The daughter ^{200}Tl is chemically separated from ^{200}Pb; Detectors: sector-type double focusing beta-ray spectrometer, two NaI(Tl); Measured: γ, γγ, γγ(θ), Eγ, Iγ, ceγ, ceγ(θ) Ice; Deduced: level scheme, J^π, δ.

Others: 2019Ol05, 1969Ho03, 1962Ja10, 1962Va10, 1961Le17, 1960Gu01, 1957He43, 1956Ge44.

The decay scheme is mainly based on 1971Ko03. A number of γ transitions were placed from the adopted gammas by the evaluator.

^{200}Hg Levels

E(level)†	J^π‡	$T_{1/2}$‡	Comments
0.0	0^+	stable	
367.945 *9*	2^+	46.4 ps *4*	$T_{1/2}$: Other: 44 ps *3* from γγ(Δt) in 2019Ol05.
947.248 *10*	4^+	3.21 ps *14*	
1029.353 *6*	0^+	8 ps *4*	
1254.107 *7*	2^+	3.5 ps *7*	
1515.183 *6*	0^+		
1570.285 *7*	1^+		
1573.674 *8*	2^+		
1593.435 *8*	2^+		
1630.905 *7*	1^+		
1641.453 *7*	2^+		
1659.017 *12*	3^+		
1718.313 *7*	1^+		
1730.934 *7*	2^+		
1734.353 *8*	3^+		
1775.566 *10*	3^+		
1845.787 *8*	3^+		
1856.790 *7*	0^+		
1882.868 *7*	2^+		
1972.287 *9*	$(2)^+$		
1974.346 *10*	$(3)^+$		
2061.264 *7*	1^+		
2114.362 *11*	3^+		
2126.863 *9*	2^+		
2151.35 *10*	3^-		
2229.276 *13*	1^+		
2238.51 *22*	(3)		
2274.236 *11*	$(2)^+$		
2288.96 *10*	2^+		
2296.29 *4*	1^+		
2331.791 *11*	2^+		
2343.602 *20*	$1^+,2^+,3^+$		
2370.053 *11*	1^+		
2388.70 *7*	$(1,2,3)^+$		

Continued on next page (footnotes at end of table)

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02 (continued)

^{200}Hg Levels (continued)

† From a least-squares fit to Eγ.
‡ From Adopted Levels, unless otherwise stated.

ε,β+ radiations

E(decay)	E(level)	Iβ+ ‡	Iε†‡	Log *ft*	I(ε+β+)‡	Comments
(67 *6*)	2388.70		0.038 *4*	6.63 *11*	0.038 *4*	εL=0.680 *10*; εM+=0.320 *10*
(86 *6*)	2370.053		0.049 *7*	6.77 *11*	0.049 *7*	εK=0.01 *5*; εL=0.70 *3*; εM+=0.298 *18*
(112 *6*)	2343.602		0.060 *7*	7.09 *11*	0.060 *7*	εK=0.28 *7*; εL=0.52 *5*; εM+=0.206 *20*
(124 *6*)	2331.791		0.078 *9*	7.13 *10*	0.078 *9*	εK=0.37 *5*; εL=0.45 *4*; εM+=0.175 *15*
(160 *6*)	2296.29		0.058 *6*	7.64 *7*	0.058 *6*	εK=0.546 *20*; εL=0.331 *14*; εM+=0.123 *6*
(167 *6*)	2288.96		0.151 *17*	7.29 *7*	0.151 *17*	εK=0.567 *18*; εL=0.316 *12*; εM+=0.117 *6*
(182 *6*)	2274.236		0.201 *13*	7.28 *6*	0.201 *13*	εK=0.602 *13*; εL=0.292 *9*; εM+=0.106 *4*
(218 *6*)	2238.51		0.031 *6*	8.32 *10*	0.031 *6*	εK=0.657 *8*; εL=0.253 *6*; εM+=0.0901 *22*
(227 *6*)	2229.276		0.14 *3*	7.72 *10*	0.14 *3*	εK=0.667 *7*; εL=0.246 *5*; εM+=0.0872 *19*
(305 *6*)	2151.35		0.014 *4*	9.06 *13*	0.014 *4*	εK=0.719 *3*; εL=0.2088 *20*; εM+=0.0719 *8*
(329 *6*)	2126.863		0.84 *8*	7.37 *5*	0.84 *8*	εK=0.7290 *23*; εL=0.2018 *16*; εM+=0.0691 *7*
(342 *6*)	2114.362		0.27 *4*	7.90 *7*	0.27 *4*	εK=0.7333 *20*; εL=0.1988 *15*; εM+=0.0679 *6*
(395 *6*)	2061.264		0.089 *8*	8.54 *5*	0.089 *8*	εK=0.7477 *14*; εL=0.1885 *10*; εM+=0.0638 *4*
(482 *6*)	1974.346		0.115 *19*	8.63 *8*	0.115 *19*	εK=0.7630 *9*; εL=0.1775 *6*; εM+=0.05946 *24*
(484 *6*)	1972.287		1.31 *10*	7.58 *4*	1.31 *10*	εK=0.7633 *9*; εL=0.1773 *6*; εM+=0.05938 *24*
(573 *6*)	1882.868		7.7 *4*	6.978 *25*	7.7 *4*	εK=0.7732 *6*; εL=0.1702 *4*; εM+=0.05657 *16*
(610 *6*)	1845.787		1.32 *7*	7.81 *3*	1.32 *7*	εK=0.7763 *5*; εL=0.1680 *4*; εM+=0.05569 *14*
(680 *6*)	1775.566		19.6 *13*	6.74 *3*	19.6 *13*	εK=0.7812 *4*; εL=0.1645 *3*; εM+=0.05432 *11*
(722 *6*)	1734.353		2.4 *4*	7.71 *8*	2.4 *4*	εK=0.7835 *4*; εL=0.16282 *24*; εM+=0.05366 *9*
(725 *6*)	1730.934		6.0 *5*	7.32 *4*	6.0 *5*	εK=0.7837 *4*; εL=0.16269 *23*; εM+=0.05361 *9*
(738 *6*)	1718.313		0.6 *3*	8.33 *22*	0.6 *3*	εK=0.7843 *3*; εL=0.16223 *22*; εM+=0.05343 *9*
(797 *6*)	1659.017		0.24 *23*	8.8 *5*	0.24 *23*	εK=0.7871 *3*; εL=0.16025 *19*; εM+=0.05266 *8*
(815 *6*)	1641.453		3.4 *4*	7.67 *6*	3.4 *4*	εK=0.7878 *3*; εL=0.15972 *18*; εM+=0.05245 *7*
(863 *6*)	1593.435		1.6 *4*	8.05 *11*	1.6 *4*	εK=0.7896 *3*; εL=0.1584 *2*; εM+=0.05194 *6*
(882 *6*)	1573.674		30.3 *17*	6.80 *3*	30.3 *17*	εK=0.7903 *2*; εL=0.1579 *2*; εM+=0.05175 *6*
(886 *6*)	1570.285		0.12 *7*	9.2 *3*	0.12 *7*	εK=0.7904 *2*; εL=0.1578 *2*; εM+=0.05171 *6*
(941 *6*)	1515.183		<0.02	>10.5[1u]	<0.02	εK=0.7598 *5*; εL=0.1796 *4*; εM+=0.06053 *14*
(1202 *6*)	1254.107		0.46 *20*	8.91 *19*	0.46 *20*	εK=0.7980 *1*; εL=0.15237 *8*; εM+=0.04958 *3*
(1427 *6*)	1029.353		<0.40	>10.0[1u]	<0.40	εK=0.7823 *2*; εL=0.1636 *2*; εM+=0.05406 *5*
(1509 *6*)	947.248		<0.8	>9.8[1u]	<0.8	εK=0.7844 *2*; εL=0.1620 *1*; εM+=0.05343 *5*
(2088 *6*)	367.945	0.336 *14*	24.6 *9*	7.680 *16*	24.9 *9*	av Eβ=495.8 *27*; εK=0.7956 *2*; εL=0.14428 *7*; εM+=0.04658 *3* E(decay): Eβ+=1052 *10* (1957He43), 1069 *7* (1962Va10). Iε: From ce(k)/Iβ+=11.50 *28* in 1962Va10 and α(K)=0.0388 *5*.
(2456 *6*)	0.0	0.042 *3*	4.4 *3*	9.91[1u] *3*	4.45 *30*	av Eβ=660.7 *26*; εK=0.7906; εL=0.15076 *6*; εM+=0.04908 *3* E(decay): Eβ+=1436 *10* (1957He43), 1438 *13* (1962Va10). I(ε+β+): From I(β++ε, 2+)/I(β++ε, 0+)=5.60 *32* (1962Va10).

† From the decay scheme, unless otherwise stated.
‡ Absolute intensity per 100 decays.

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02 (continued)

γ(^{200}Hg)

Iγ normalization: Using (Iε + Iβ$^+$)(g.s.)=4.45% *30*, determined from I(β$^+$+ε, 2$^+$)/I(β$^+$+ε, 0$^+$)=5.60 *32* in 1962Va10.

E_γ †	I_γ ‡a	E_i(level)	J_i^π	E_f	J_f^π	Mult. †	α&	Comments
76.857 *4*	0.035# *10*	1718.313	1+	1641.453	2+	[M1,E2]	10 *7*	%Iγ=0.031 *9* α(L)=8 *5*; α(M)=1.9 *14* α(N)=0.48 *34*; α(O)=0.08 *6*; α(P)=0.0011 *9*
115.714 *9*	0.020# *5*	1630.905	1+	1515.183	0+	[M1]	5.20 *7*	%Iγ=0.018 *4* α(K)=4.26 *6*; α(L)=0.723 *10*; α(M)=0.1683 *24* α(N)=0.0422 *6*; α(O)=0.00799 *11*; α(P)=0.000610 *9*
116.51 *15*	0.13 *4*	1775.566	3+	1659.017	3+	[M1,E2]	4.0 *11*	%Iγ=0.115 *35* α(K)=2.4 *18*; α(L)=1.3 *6*; α(M)=0.32 *15* α(N)=0.08 *4*; α(O)=0.014 *6*; α(P)=3.4×10^{-4} *26*
137.50 *2*	≈0.087#	1730.934	2+	1593.435	2+	[M1,E2]	2.4 *8*	%Iγ≈0.0770 α(K)=1.5 *11*; α(L)=0.65 *21*; α(M)=0.16 *6* α(N)=0.040 *15*; α(O)=0.0070 *22*; α(P)=2.1×10^{-4} *16*
138.471 *16*	≈0.00003@	1856.790	0+	1718.313	1+	[M1]	3.12 *4*	%Iγ≈2.65×10^{-5} α(K)=2.55 *4*; α(L)=0.432 *6*; α(M)=0.1006 *14* α(N)=0.02524 *35*; α(O)=0.00477 *7*; α(P)=0.000365 *5*
140.898 *12*	0.19# *7*	1734.353	3+	1593.435	2+	[M1,E2]	2.2 *8*	%Iγ=0.17 *6* α(K)=1.4 *10*; α(L)=0.59 *18*; α(M)=0.15 *5* α(N)=0.037 *13*; α(O)=0.0064 *19*; α(P)=2.0×10^{-4} *15*
144.639 *10*	0.018# *3*	1718.313	1+	1573.674	2+	[M1,E2]	2.0 *7*	%Iγ=0.0159 *27* α(K)=1.3 *10*; α(L)=0.53 *15*; α(M)=0.13 *4* α(N)=0.033 *11*; α(O)=0.0058 *16*; α(P)=1.8×10^{-4} *14*
144.639 *10*	2.9# *5*	1775.566	3+	1630.905	1+	[E2]	1.264 *18*	%Iγ=2.6 *4* α(K)=0.355 *5*; α(L)=0.680 *10*; α(M)=0.1771 *25* α(N)=0.0440 *6*; α(O)=0.00735 *10*; α(P)=4.63×10^{-5} *6*
148.026 *4*	0.0156# *20*	1718.313	1+	1570.285	1+	[M1,E2]	1.9 *7*	%Iγ=0.0138 *18* α(K)=1.2 *9*; α(L)=0.49 *13*; α(M)=0.12 *4* α(N)=0.030 *9*; α(O)=0.0053 *13*; α(P)=1.7×10^{-4} *13*
148.500 *6*	0.087# *19*	1882.868	2+	1734.353	3+	[M1,E2]	1.8 *7*	%Iγ=0.077 *17* α(K)=1.2 *9*; α(L)=0.48 *13*; α(M)=0.12 *4* α(N)=0.030 *9*; α(O)=0.0052 *13*; α(P)=1.7×10^{-4} *13*
151.932 *5*	0.14# *3*	1882.868	2+	1730.934	2+	[M1,E2]	1.7 *7*	%Iγ=0.124 *27* α(K)=1.1 *8*; α(L)=0.44 *11*; α(M)=0.110 *32* α(N)=0.027 *8*; α(O)=0.0048 *11*; α(P)=1.6×10^{-4} *12*
160.659 *11*	≈0.015#	1730.934	2+	1570.285	1+	[M1,E2]	1.4 *6*	%Iγ≈0.0133

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

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02 (continued)

γ(^{200}Hg) (continued)

E_γ[†]	I_γ[‡a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	δ[†]	α[&]	Comments
									α(K)=1.0 *7*; α(L)=0.35 *7*; α(M)=0.088 *23* α(N)=0.022 *6*; α(O)=0.0039 *7*; α(P)=1.4×10^{-4} *10*
160.659 *11*	≈0.027[#]	1734.353	3$^+$	1573.674	2$^+$	[M1,E2]		1.4 *6*	%Iγ≈0.0239 α(K)=1.0 *7*; α(L)=0.35 *7*; α(M)=0.088 *23* α(N)=0.022 *6*; α(O)=0.0039 *7*; α(P)=1.4×10^{-4} *10*
164.544 *6*	0.198[#] *23*	1882.868	2$^+$	1718.313	1$^+$	[M1,E2]		1.3 *6*	%Iγ=0.175 *20* α(K)=0.9 *6*; α(L)=0.32 *6*; α(M)=0.081 *19* α(N)=0.020 *5*; α(O)=0.0035 *6*; α(P)=1.3×10^{-4} *9*
182.17 *20*	0.06 *2*	1775.566	3$^+$	1593.435	2$^+$	M1+E2	1.9 *4*	0.74 *8*	%Iγ=0.053 *18* α(K)=0.42 *9*; α(L)=0.236 *6*; α(M)=0.0601 *18* α(N)=0.0150 *4*; α(O)=0.00257 *6*; α(P)=5.7×10^{-5} *13* E_γ: From 1971Ko03.
186.771 *13*	0.014[#] *5*	1845.787	3$^+$	1659.017	3$^+$	E2+M1		0.9 *4*	%Iγ=0.012 *4* α(K)=0.6 *4*; α(L)=0.203 *19*; α(M)=0.050 *7* α(N)=0.0125 *17*; α(O)=0.00222 *18*; α(P)=9.E−5 *7*
201.91 *2*	0.10[#] *4*	1775.566	3$^+$	1573.674	2$^+$	[M1,E2]		0.73 *35*	%Iγ=0.088 *35* α(K)=0.5 *4*; α(L)=0.154 *6*; α(M)=0.0379 *34* α(N)=0.0094 *8*; α(O)=0.00168 *5*; α(P)=7.E−5 *5*
203.135 *7*	0.0091[#] *14*	1718.313	1$^+$	1515.183	0$^+$	M1		1.058 *15*	%Iγ=0.0081 *12* α(K)=0.868 *12*; α(L)=0.1460 *20*; α(M)=0.0340 *5* α(N)=0.00852 *12*; α(O)=0.001612 *23*; α(P)=0.0001234 *17*
204.477 *8*	0.000127[#] *9*	2061.264	1$^+$	1856.790	0$^+$	[M1]		1.039 *15*	%Iγ=0.000112 *8* α(K)=0.852 *12*; α(L)=0.1433 *20*; α(M)=0.0333 *5* α(N)=0.00836 *12*; α(O)=0.001583 *22*; α(P)=0.0001211 *17*
204.93 *11*	0.00042[#] *13*	2331.791	2$^+$	2126.863	2$^+$	[M1,E2]		0.71 *34*	%Iγ=0.00037 *12* α(K)=0.51 *35*; α(L)=0.149 *5*; α(M)=0.0366 *30* α(N)=0.0091 *7*; α(O)=0.00163 *4*; α(P)=7.E−5 *5* E_γ: From level energy differences.
215.743 *13*	0.013[#] *4*	1730.934	2$^+$	1515.183	0$^+$	[E2]		0.302 *4*	%Iγ=0.0115 *35* α(K)=0.1410 *20*; α(L)=0.1209 *17*; α(M)=0.0311 *4* α(N)=0.00774 *11*; α(O)=0.001312 *18*; α(P)=1.767×10^{-5} *25*
224.750 *6*	0.0086[#] *9*	1254.107	2$^+$	1029.353	0$^+$	[E2]		0.264 *4*	%Iγ=0.0076 *8* α(K)=0.1276 *18*; α(L)=0.1021 *14*; α(M)=0.0263 *4* α(N)=0.00653 *9*; α(O)=0.001109 *16*; α(P)=1.603×10^{-5} *22*
225.885 *6*	≈0.000046[@]	1856.790	0$^+$	1630.905	1$^+$	M1		0.788 *11*	%Iγ≈4.07×10^{-5} α(K)=0.646 *9*; α(L)=0.1084 *15*; α(M)=0.02523 *35* α(N)=0.00633 *9*; α(O)=0.001198 *17*; α(P)=9.17×10^{-5} *13*
241.356 *12*	0.0056[#] *21*	1972.287	(2)$^+$	1730.934	2$^+$	[M1,E2]		0.43 *22*	%Iγ=0.0050 *19*

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

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02 (continued)

γ(^{200}Hg) (continued)

E_γ †	I_γ ‡ a	E_i(level)	J_i^π	E_f	J_f^π	Mult. †	δ †	α &	Comments
									α(K)=0.32 *22*; α(L)=0.083 *7*; α(M)=0.0203 *7* α(N)=0.00507 *21*; α(O)=0.00091 *8*; α(P)=4.5×10^{-5} *31*
241.425 *10*	0.036# *9*	1882.868	2$^+$	1641.453	2$^+$	[M1,E2]		0.43 *22*	%Iγ=0.032 *8* α(K)=0.32 *22*; α(L)=0.083 *7*; α(M)=0.0203 *7* α(N)=0.00506 *21*; α(O)=0.00091 *8*; α(P)=4.5×10^{-5} *31*
243.411 *7*	0.0134# *11*	1974.346	(3)$^+$	1730.934	2$^+$	[M1,E2]		0.42 *22*	%Iγ=0.0119 *10* α(K)=0.32 *21*; α(L)=0.081 *7*; α(M)=0.0197 *8* α(N)=0.00492 *23*; α(O)=0.00089 *9*; α(P)=4.4×10^{-5} *31*
251.969 *7*	0.37# *3*	1882.868	2$^+$	1630.905	1$^+$	M1+E2	0.38 *21*	0.53 *5*	%Iγ=0.327 *27* α(K)=0.43 *5*; α(L)=0.0780 *23*; α(M)=0.0183 *4* α(N)=0.00460 *10*; α(O)=0.000860 *27*; α(P)=6.1×10^{-5} *7* Mult.: α(K)exp=0.043 *5*.
252.356 *7*	0.112# *9*	1845.787	3$^+$	1593.435	2$^+$	[M1,E2]		0.38 *20*	%Iγ=0.099 *8* α(K)=0.29 *19*; α(L)=0.072 *8*; α(M)=0.0174 *11* α(N)=0.00436 *30*; α(O)=0.00079 *9*; α(P)=4.0×10^{-5} *28*
253.991 *15*	0.0044# *14*	1972.287	(2)$^+$	1718.313	1$^+$	[M1,E2]		0.37 *20*	%Iγ=0.0039 *12* α(K)=0.28 *19*; α(L)=0.070 *8*; α(M)=0.0171 *12* α(N)=0.00427 *31*; α(O)=0.00077 *9*; α(P)=3.9×10^{-5} *27*
268.49 b *3*	≈0.0036#	2114.362	3$^+$	1845.787	3$^+$	[M1,E2]		0.32 *17*	%Iγ≈0.00319 α(K)=0.24 *16*; α(L)=0.059 *9*; α(M)=0.0142 *14* α(N)=0.0035 *4*; α(O)=0.00064 *10*; α(P)=3.4×10^{-5} *23*
270.530 *12*	0.00049# *10*	2331.791	2$^+$	2061.264	1$^+$	[M1,E2]		0.31 *17*	%Iγ=0.00043 *9* α(K)=0.24 *16*; α(L)=0.057 *9*; α(M)=0.0138 *15* α(N)=0.0035 *4*; α(O)=0.00063 *10*; α(P)=3.3×10^{-5} *23*
272.109 *8*	0.04 *2*	1845.787	3$^+$	1573.674	2$^+$	(M1)		0.471 *7*	%Iγ=0.035 *18* α(K)=0.387 *5*; α(L)=0.0647 *9*; α(M)=0.01504 *21* α(N)=0.00377 *5*; α(O)=0.0007140 *99*; α(P)=5.47×10^{-5} *8*
275.497 *12*	0.016# *3*	1845.787	3$^+$	1570.285	1$^+$	[E2]		0.1377 *19*	%Iγ=0.0142 *27* α(K)=0.0775 *11*; α(L)=0.0453 *6*; α(M)=0.01154 *16* α(N)=0.00287 *4*; α(O)=0.000493 *7*; α(P)=9.91×10^{-6} *14*
281.08 *2*	0.0019# *4*	2126.863	2$^+$	1845.787	3$^+$	[M1,E2]		0.28 *15*	%Iγ=0.00168 *35* α(K)=0.21 *14*; α(L)=0.051 *9*; α(M)=0.0122 *16* α(N)=0.0031 *4*; α(O)=0.00055 *10*; α(P)=3.0×10^{-5} *20*
286.518 *13*	≈0.000005@	1856.790	0$^+$	1570.285	1$^+$	[M1]		0.409 *6*	%Iγ≈4.42×10^{-6} α(K)=0.336 *5*; α(L)=0.0561 *8*; α(M)=0.01305 *18* α(N)=0.00327 *5*; α(O)=0.000619 *9*; α(P)=4.75×10^{-5} *7*
289.425 *9*	0.66# *4*	1882.868	2$^+$	1593.435	2$^+$	M1+E2	0.62 *12*	0.320 *22*	%Iγ=0.584 *35* α(K)=0.255 *20*; α(L)=0.0498 *15*; α(M)=0.01181 *30*

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

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02 (continued)

γ(^{200}Hg) (continued)

E_γ[†]	I_γ[‡a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	δ[†]	α[&]	Comments
									α(N)=0.00296 *8*; α(O)=0.000548 *17*; α(P)=3.58×10^{-5} *29* Mult.: α(K)exp=0.25 *2*.
299.887 *12*	0.0021[#] *4*	2274.236	(2)$^+$	1974.346	(3)$^+$	[M1,E2]		0.23 *13*	%Iγ=0.00186 *35* α(K)=0.18 *12*; α(L)=0.041 *8*; α(M)=0.0099 *16* α(N)=0.0025 *4*; α(O)=0.00045 *10*; α(P)=2.5×10^{-5} *17*
301.963 *13*	0.0016[#] *3*	2274.236	(2)$^+$	1972.287	(2)$^+$	[M1,E2]		0.23 *13*	%Iγ=0.00142 *27* α(K)=0.18 *11*; α(L)=0.040 *8*; α(M)=0.0097 *16* α(N)=0.0024 *4*; α(O)=0.00044 *9*; α(P)=2.5×10^{-5} *17*
306.863 *11*	0.0056[#] *5*	1254.107	2$^+$	947.248	4$^+$	[E2]		0.0996 *14*	%Iγ=0.0050 *4* α(K)=0.0597 *8*; α(L)=0.0300 *4*; α(M)=0.00760 *11* α(N)=0.001892 *26*; α(O)=0.000327 *5*; α(P)=7.70×10^{-6} *11*
308.801 *11*	0.000088[#] *10*	2370.053	1$^+$	2061.264	1$^+$	[M1,E2]		0.22 *12*	%Iγ=7.8×10^{-5} *9* α(K)=0.17 *11*; α(L)=0.037 *8*; α(M)=0.0090 *16* α(N)=0.0023 *4*; α(O)=0.00041 *9*; α(P)=2.3×10^{-5} *16*
309.209 *8*	0.281[#] *18*	1882.868	2$^+$	1573.674	2$^+$	M1+E2	0.35 *23*	0.307 *34*	%Iγ=0.249 *16* α(K)=0.250 *31*; α(L)=0.0437 *24*; α(M)=0.0102 *5* α(N)=0.00256 *12*; α(O)=0.000482 *27*; α(P)=3.5×10^{-5} *4* Mult.: α(K)exp=0.25 *3*.
312.613 *13*	0.041[#] *5*	1882.868	2$^+$	1570.285	1$^+$	[M1,E2]		0.21 *11*	%Iγ=0.036 *4* α(K)=0.16 *10*; α(L)=0.036 *8*; α(M)=0.0087 *16* α(N)=0.0022 *4*; α(O)=0.00040 *9*; α(P)=2.2×10^{-5} *15*
313.23 *3*	0.0044[#] *11*	1972.287	(2)$^+$	1659.017	3$^+$	[M1,E2]		0.21 *11*	%Iγ=0.0039 *10* α(K)=0.16 *10*; α(L)=0.036 *8*; α(M)=0.0086 *16* α(N)=0.0022 *4*; α(O)=0.00039 *9*; α(P)=2.2×10^{-5} *15*
316.176 *8*	0.00372[#] *25*	1570.285	1$^+$	1254.107	2$^+$	M1(+E2)		0.20 *11*	%Iγ=0.00329 *22* α(K)=0.16 *10*; α(L)=0.035 *8*; α(M)=0.0084 *16* α(N)=0.0021 *4*; α(O)=0.00038 *9*; α(P)=2.2×10^{-5} *15*
319.566 *15*	0.069[#] *11*	1573.674	2$^+$	1254.107	2$^+$	(M1+E2)		0.20 *11*	%Iγ=0.061 *10* α(K)=0.15 *10*; α(L)=0.034 *8*; α(M)=0.0081 *16* α(N)=0.0020 *4*; α(O)=0.00037 *9*; α(P)=2.1×10^{-5} *14*
330.303 *16*	0.000064[#] *9*	2061.264	1$^+$	1730.934	2$^+$	[M1,E2]		0.18 *10*	%Iγ=5.7×10^{-5} *8* α(K)=0.14 *9*; α(L)=0.030 *8*; α(M)=0.0073 *15* α(N)=0.0018 *4*; α(O)=3.3×10^{-4} *9*; α(P)=1.9×10^{-5} *13*
330.84 *3*	≈0.0067[#]	1972.287	(2)$^+$	1641.453	2$^+$	[M1,E2]		0.18 *10*	%Iγ≈0.00593 α(K)=0.14 *9*; α(L)=0.030 *8*; α(M)=0.0073 *15* α(N)=0.0018 *4*; α(O)=3.3×10^{-4} *9*; α(P)=1.9×10^{-5} *13*
338.75 *2*	0.0252[#] *20*	2114.362	3$^+$	1775.566	3$^+$	[M1,E2]		0.17 *9*	%Iγ=0.0223 *18*

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

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02 (continued)

γ(^{200}Hg) (continued)

E_γ [†]	I_γ [‡a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
								α(K)=0.13 *8*; α(L)=0.028 *7*; α(M)=0.0067 *15* α(N)=0.0017 *4*; α(O)=3.1×10^{-4} *8*; α(P)=1.8×10^{-5} *12*
339.40	0.023[#] *12*	1593.435	2$^+$	1254.107	2$^+$	M1(+E0)		%Iγ=0.020 *11*
341.375 *12*	0.0235[#] *19*	1972.287	(2)$^+$	1630.905	1$^+$	[M1,E2]	0.16 *9*	%Iγ=0.0208 *17* α(K)=0.13 *8*; α(L)=0.028 *7*; α(M)=0.0066 *15* α(N)=0.0016 *4*; α(O)=3.0×10^{-4} *8*; α(P)=1.8×10^{-5} *12*
(341.606 *14*)		1856.790	0$^+$	1515.183	0$^+$	E0		
342.939 *12*	0.000218[#] *18*	2061.264	1$^+$	1718.313	1$^+$	[M1,E2]	0.16 *9*	%Iγ=0.000193 *16* α(K)=0.13 *8*; α(L)=0.027 *7*; α(M)=0.0065 *15* α(N)=0.0016 *4*; α(O)=3.0×10^{-4} *8*; α(P)=1.8×10^{-5} *12*
346.406 *14*	0.0032[#] *4*	2229.276	1$^+$	1882.868	2$^+$	[M1,E2]	0.16 *9*	%Iγ=0.00283 *35* α(K)=0.12 *8*; α(L)=0.026 *7*; α(M)=0.0063 *15* α(N)=0.0016 *4*; α(O)=2.9×10^{-4} *8*; α(P)=1.7×10^{-5} *11*
351.27 *2*	0.012[#] *2*	2126.863	2$^+$	1775.566	3$^+$	[M1,E2]	0.15 *8*	%Iγ=0.0106 *18* α(K)=0.12 *8*; α(L)=0.025 *7*; α(M)=0.0060 *14* α(N)=0.0015 *4*; α(O)=2.8×10^{-4} *8*; α(P)=1.6×10^{-5} *11*
359.48 *4*	0.00050[#] *13*	2331.791	2$^+$	1972.287	(2)$^+$	[M1,E2]	0.14 *8*	%Iγ=0.00044 *12* α(K)=0.11 *7*; α(L)=0.024 *7*; α(M)=0.0056 *14* α(N)=0.00141 *35*; α(O)=2.6×10^{-4} *7*; α(P)=1.5×10^{-5} *10*
367.942 *10*	100	367.945	2$^+$	0.0	0$^+$	E2	0.0594 *8*	%Iγ=88.49 *22* α(K)=0.0388 *5*; α(L)=0.01553 *22*; α(M)=0.00389 *5* α(N)=0.000970 *14*; α(O)=0.0001694 *24*; α(P)=5.08×10^{-6} *7* Mult.: α(K)exp=0.0395 *8* (1961Le17), 0.0402 *14* (1962Ja10), 0.0400 *25* (1962Va10) and 0.030 *4* (1965Sa02).
376.79 *2*	0.0032[#] *7*	1630.905	1$^+$	1254.107	2$^+$	[M1,E2]	0.13 *7*	%Iγ=0.0028 *6* α(K)=0.10 *6*; α(L)=0.020 *6*; α(M)=0.0049 *13* α(N)=0.00122 *33*; α(O)=2.2×10^{-4} *7*; α(P)=1.4×10^{-5} *9*
380.03 *2*	0.0120[#] *16*	2114.362	3$^+$	1734.353	3$^+$	[M1,E2]	0.12 *7*	%Iγ=0.0106 *14* α(K)=0.10 *6*; α(L)=0.020 *6*; α(M)=0.0048 *13* α(N)=0.00119 *32*; α(O)=2.2×10^{-4} *7*; α(P)=1.3×10^{-5} *9*
383.437 *11*	0.038[#] *4*	2114.362	3$^+$	1730.934	2$^+$	[M1,E2]	0.12 *7*	%Iγ=0.0336 *35* α(K)=0.09 *6*; α(L)=0.019 *6*; α(M)=0.0046 *13* α(N)=0.00116 *32*; α(O)=2.1×10^{-4} *7*; α(P)=1.3×10^{-5} *8*
387.345 *9*	0.182[#] *11*	1641.453	2$^+$	1254.107	2$^+$	M1(+E0)	0.181	%Iγ=0.161 *10* α(K)=0.1486 *21*; α(L)=0.0246 *4*; α(M)=0.00572 *8*; α(N+..)=0.001728 *25* α(N)=0.001436 *21*; α(O)=0.000272 *4*; α(P)=2.09×10^{-5} *3* Mult.: α(K)exp=0.12 *2*.

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

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02 (continued)

γ(^{200}Hg) (continued)

E_γ[†]	I_γ[‡a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
392.524 *17*	0.0046[#] *8*	2126.863	2^+	1734.353	3^+	[M1,E2]	0.11 *6*	%Iγ=0.0041 *7* α(K)=0.09 *6*; α(L)=0.018 *6*; α(M)=0.0043 *12* α(N)=0.00108 *31*; α(O)=2.0×10^{-4} *6*; α(P)=1.2×10^{-5} *8*
395.97 *4*	0.0023[#] *7*	2126.863	2^+	1730.934	2^+	[M1,E2]	0.11 *6*	%Iγ=0.0020 *6* α(K)=0.09 *5*; α(L)=0.018 *6*; α(M)=0.0042 *12* α(N)=0.00105 *30*; α(O)=1.9×10^{-4} *6*; α(P)=1.2×10^{-5} *8*
397.765 *14*	0.00019[#] *3*	2370.053	1^+	1972.287	$(2)^+$	[M1,E2]	0.11 *6*	%Iγ=0.000168 *27* α(K)=0.09 *5*; α(L)=0.017 *6*; α(M)=0.0041 *12* α(N)=1.04×10^{-3} *30*; α(O)=1.9×10^{-4} *6*; α(P)=1.2×10^{-5} *8*
398.63 *2*	0.025[#] *3*	1972.287	$(2)^+$	1573.674	2^+	[M1,E2]	0.11 *6*	%Iγ=0.0221 *27* α(K)=0.08 *5*; α(L)=0.017 *6*; α(M)=0.0041 *12* α(N)=1.03×10^{-3} *30*; α(O)=1.9×10^{-4} *6*; α(P)=1.2×10^{-5} *8*
404.94 *4*	0.0124[#] *21*	1659.017	3^+	1254.107	2^+	[M1,E2]	0.10 *6*	%Iγ=0.0110 *19* α(K)=0.08 *5*; α(L)=0.017 *5*; α(M)=0.0039 *11* α(N)=9.8×10^{-4} *29*; α(O)=1.8×10^{-4} *6*; α(P)=1.1×10^{-5} *7*
408.556 *10*	0.050[#] *8*	2126.863	2^+	1718.313	1^+	M1	0.1567 *22*	%Iγ=0.044 *7* α(K)=0.1289 *18*; α(L)=0.02135 *30*; α(M)=0.00496 *7* α(N)=0.001244 *17*; α(O)=0.0002354 *33*; α(P)=1.810×10^{-5} *25*
414.41[b] *7*	≈0.00039[#]	2388.70	$(1,2,3)^+$	1974.346	$(3)^+$	[M1,E2]	0.10 *5*	%Iγ≈0.000345 α(K)=0.08 *5*; α(L)=0.015 *5*; α(M)=0.0037 *11* α(N)=9.2×10^{-4} *28*; α(O)=1.7×10^{-4} *6*; α(P)=1.1×10^{-5} *7*
419.828 *10*	0.00100[#] *6*	2061.264	1^+	1641.453	2^+	M1	0.1458 *20*	%Iγ=0.00088 *5* α(K)=0.1199 *17*; α(L)=0.01984 *28*; α(M)=0.00461 *6* α(N)=0.001156 *16*; α(O)=0.0002187 *31*; α(P)=1.682×10^{-5} *24*
428.45 *3*	0.0030[#] *5*	2274.236	$(2)^+$	1845.787	3^+	[M1,E2]	0.09 *5*	%Iγ=0.0027 *4* α(K)=0.07 *4*; α(L)=0.014 *5*; α(M)=0.0033 *10* α(N)=8.3×10^{-4} *26*; α(O)=1.5×10^{-4} *5*; α(P)=1.0×10^{-5} *6*
430.368 *10*	0.00260[#] *16*	2061.264	1^+	1630.905	1^+	M1	0.1364 *19*	%Iγ=0.00230 *14* α(K)=0.1123 *16*; α(L)=0.01856 *26*; α(M)=0.00431 *6* α(N)=0.001081 *15*; α(O)=0.0002046 *29*; α(P)=1.574×10^{-5} *22*
439.52 *4*	0.00032[#] *8*	2296.29	1^+	1856.790	0^+	[M1]	0.1290 *18*	%Iγ=0.00028 *7* α(K)=0.1062 *15*; α(L)=0.01754 *25*; α(M)=0.00407 *6* α(N)=0.001021 *14*; α(O)=0.0001934 *27*; α(P)=1.488×10^{-5} *21*
448.91 *2*	0.0076[#] *6*	2331.791	2^+	1882.868	2^+	[M1,E2]	0.08 *4*	%Iγ=0.0067 *5* α(K)=0.06 *4*; α(L)=0.012 *4*; α(M)=0.0029 *9* α(N)=7.3×10^{-4} *24*; α(O)=1.3×10^{-4} *5*; α(P)=9.E−6 *5*
453.60 *16*	≈0.0012[#]	2229.276	1^+	1775.566	3^+	[E2]	0.0343 *5*	%Iγ≈0.001062

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02 (continued)

γ(^{200}Hg) (continued)

E_γ[†]	I_γ[‡a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
								α(K)=0.02412 *34*; α(L)=0.00768 *11*; α(M)=0.001900 *27* α(N)=0.000474 *7*; α(O)=8.39×10^{-5} *12*; α(P)=3.19×10^{-6} *4*
460.76 *5*	0.0012[#] *3*	2343.602	1$^+$,2$^+$,3$^+$	1882.868	2$^+$	[M1,E2]	0.07 *4*	%Iγ=0.00106 *27* α(K)=0.058 *35*; α(L)=0.011 *4*; α(M)=0.0027 *9* α(N)=6.8×10^{-4} *23*; α(O)=1.3×10^{-4} *5*; α(P)=8.E−6 *5*
464.214 *12*	0.0217[#] *15*	1718.313	1$^+$	1254.107	2$^+$	E2+M1	0.07 *4*	%Iγ=0.0192 *13* α(K)=0.057 *34*; α(L)=0.011 *4*; α(M)=0.0026 *9* α(N)=6.6×10^{-4} *22*; α(O)=1.2×10^{-4} *4*; α(P)=8.E−6 *5*
467.86 *2*	0.00091[#] *6*	2061.264	1$^+$	1593.435	2$^+$	M1	0.1093 *15*	%Iγ=0.00081 *5* α(K)=0.0900 *13*; α(L)=0.01484 *21*; α(M)=0.00344 *5* α(N)=0.000864 *12*; α(O)=0.0001636 *23*; α(P)=1.259×10^{-5} *18*
467.86 *2*	0.063[#] *9*	2126.863	2$^+$	1659.017	3$^+$	(M1)	0.1093 *15*	%Iγ=0.056 *8* α(K)=0.0900 *13*; α(L)=0.01484 *21*; α(M)=0.00344 *5* α(N)=0.000864 *12*; α(O)=0.0001636 *23*; α(P)=1.259×10^{-5} *18*
[x]469.0 *6*	0.07 *2*							%Iγ=0.062 *18* E_γ: From 1971Ko03.
475.08 *4*	0.00071[#] *13*	2331.791	2$^+$	1856.790	0$^+$	[E2]	0.0305 *4*	%Iγ=0.00063 *12* α(K)=0.02178 *30*; α(L)=0.00663 *9*; α(M)=0.001635 *23* α(N)=0.000408 *6*; α(O)=7.24×10^{-5} *10*; α(P)=2.88×10^{-6} *4*
476.815 *13*	0.42[#] *3*	1730.934	2$^+$	1254.107	2$^+$	E2+M1(+E0)	0.07 *4*	%Iγ=0.372 *27* α(K)=0.054 *32*; α(L)=0.010 *4*; α(M)=0.0024 *8* α(N)=6.1×10^{-4} *21*; α(O)=1.1×10^{-4} *4*; α(P)=7.E−6 *5*
480.24 *3*	0.084[#] *9*	1734.353	3$^+$	1254.107	2$^+$	[M1,E2]	0.07 *4*	%Iγ=0.074 *8* α(K)=0.053 *31*; α(L)=0.010 *4*; α(M)=0.0024 *8* α(N)=6.0×10^{-4} *21*; α(O)=1.1×10^{-4} *4*; α(P)=7.E−6 *4*
483.34 *9*	≈0.008[#]	2114.362	3$^+$	1630.905	1$^+$	[E2]	0.0293 *4*	%Iγ≈0.00708 α(K)=0.02097 *29*; α(L)=0.00628 *9*; α(M)=0.001547 *22* α(N)=0.000386 *5*; α(O)=6.86×10^{-5} *10*; α(P)=2.78×10^{-6} *4*
485.36 *2*	0.038[#] *6*	2126.863	2$^+$	1641.453	2$^+$	[M1,E2]	0.064 *35*	%Iγ=0.034 *5* α(K)=0.051 *30*; α(L)=0.010 *4*; α(M)=0.0023 *8* α(N)=5.8×10^{-4} *20*; α(O)=1.1×10^{-4} *4*; α(P)=7.E−6 *4*
(485.830 *14*)		1515.183	0$^+$	1029.353	0$^+$	E0		
487.12 *3*	0.00033[#] *4*	2370.053	1$^+$	1882.868	2$^+$	[M1,E2]	0.063 *35*	%Iγ=0.000292 *35* α(K)=0.051 *30*; α(L)=0.010 *4*; α(M)=0.0023 *8* α(N)=5.8×10^{-4} *20*; α(O)=1.1×10^{-4} *4*; α(P)=7.E−6 *4*
487.56 *2*	0.00100[#] *7*	2061.264	1$^+$	1573.674	2$^+$	M1(+E2)	0.063 *35*	%Iγ=0.00088 *6* α(K)=0.051 *30*; α(L)=0.010 *4*; α(M)=0.0023 *8* α(N)=5.7×10^{-4} *20*; α(O)=1.1×10^{-4} *4*; α(P)=7.E−6 *4*

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

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02 (continued)

γ(^{200}Hg) (continued)

E_γ[†]	I_γ[‡a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	δ[†]	α[&]	Comments
490.95 *2*	0.00064[#] *4*	2061.264	1^+	1570.285	1^+	E2+M1	≈1.2	≈0.0561	%Iγ=0.000566 *35* α(K)≈0.0444; α(L)≈0.00888; α(M)≈0.002110 α(N)≈0.000528; α(O)≈9.75×10^{-5}; α(P)≈6.12×10^{-6}
495.93 *2*	0.09 *4*	2126.863	2^+	1630.905	1^+	M1		0.0937 *13*	%Iγ=0.080 *35* α(K)=0.0772 *11*; α(L)=0.01270 *18*; α(M)=0.00295 *4* α(N)=0.000739 *10*; α(O)=0.0001400 *20*; α(P)=1.078×10^{-5} *15*
497.81 *2*	0.0115[#] *8*	2343.602	$1^+,2^+,3^+$	1845.787	3^+	[M1,E2]		0.060 *33*	%Iγ=0.0102 *7* α(K)=0.048 *28*; α(L)=0.0092 *34*; α(M)=0.0022 *8* α(N)=5.4×10^{-4} *19*; α(O)=1.0×10^{-4} *4*; α(P)=7.E−6 *4*
498.63 *4*	0.0042[#] *6*	2274.236	$(2)^+$	1775.566	3^+	[M1,E2]		0.060 *33*	%Iγ=0.0037 *5* α(K)=0.048 *28*; α(L)=0.0091 *34*; α(M)=0.0022 *8* α(N)=5.4×10^{-4} *19*; α(O)=1.0×10^{-4} *4*; α(P)=7.E−6 *4*
520.91 *5*	0.025[#] *4*	2114.362	3^+	1593.435	2^+	[M1,E2]		0.053 *29*	%Iγ=0.0221 *35* α(K)=0.043 *25*; α(L)=0.0081 *31*; α(M)=0.0019 *7* α(N)=4.8×10^{-4} *17*; α(O)=8.9×10^{-5} *34*; α(P)=6.E−6 *4*
521.41 *7*	0.34[#] *10*	1775.566	3^+	1254.107	2^+	M1+E2	1.0 *+7−4*	0.053 *14*	%Iγ=0.30 *9* α(K)=0.043 *12*; α(L)=0.0080 *15*; α(M)=0.00190 *33* α(N)=0.00048 *8*; α(O)=8.8×10^{-5} *17*; α(P)=5.9×10^{-6} *17*
533.48 *3*	0.051[#] *22*	2126.863	2^+	1593.435	2^+	M1		0.0773 *11*	%Iγ=0.045 *19* α(K)=0.0637 *9*; α(L)=0.01046 *15*; α(M)=0.002428 *34* α(N)=0.000609 *9*; α(O)=0.0001153 *16*; α(P)=8.89×10^{-6} *12*
540.948 *16*	0.0326[#] *21*	1570.285	1^+	1029.353	0^+	M1		0.0745 *10*	%Iγ=0.0288 *19* α(K)=0.0614 *9*; α(L)=0.01008 *14*; α(M)=0.002340 *33* α(N)=0.000587 *8*; α(O)=0.0001111 *16*; α(P)=8.57×10^{-6} *12*
544.21 *7*	0.083[#] *18*	1573.674	2^+	1029.353	0^+	[E2]		0.02201 *31*	%Iγ=0.073 *16* α(K)=0.01625 *23*; α(L)=0.00438 *6*; α(M)=0.001070 *15* α(N)=0.000267 *4*; α(O)=4.79×10^{-5} *7*; α(P)=2.156×10^{-6} *30*
546.10 *2*	0.00039[#] *3*	2061.264	1^+	1515.183	0^+	M1		0.0727 *10*	%Iγ=0.000345 *27* α(K)=0.0599 *8*; α(L)=0.00983 *14*; α(M)=0.002282 *32* α(N)=0.000572 *8*; α(O)=0.0001083 *15*; α(P)=8.36×10^{-6} *12*
553.18 *2*	0.057[#] *8*	2126.863	2^+	1573.674	2^+	M1		0.0702 *10*	%Iγ=0.050 *7* α(K)=0.0578 *8*; α(L)=0.00948 *13*; α(M)=0.002201 *31* α(N)=0.000552 *8*; α(O)=0.0001045 *15*; α(P)=8.06×10^{-6} *11*

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

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02 (continued)

γ(^{200}Hg) (continued)

E_γ[†]	I_γ[‡a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	δ[†]	α[&]	Comments
556.58 *2*	0.11 *4*	2126.863	2^+	1570.285	1^+	M1(+E2)	≈0.4	≈0.0625	%Iγ=0.097 *35* α(K)≈0.0513; α(L)≈0.00863; α(M)≈0.002008 α(N)≈0.000503; α(O)≈9.50×10^{-5}; α(P)≈7.13×10^{-6}
564.19 *5*	0.0193[#] *19*	1593.435	2^+	1029.353	0^+	[E2]		0.02024 *28*	%Iγ=0.0171 *17* α(K)=0.01505 *21*; α(L)=0.00394 *6*; α(M)=0.000960 *13* α(N)=0.0002397 *34*; α(O)=4.31×10^{-5} *6*; α(P)=1.998×10^{-6} *28*
568.04 *7*	0.0017[#] *5*	2343.602	$1^+,2^+,3^+$	1775.566	3^+	[M1,E2]		0.043 *23*	%Iγ=0.0015 *4* α(K)=0.034 *20*; α(L)=0.0064 *25*; α(M)=0.0015 *6* α(N)=3.8×10^{-4} *14*; α(O)=7.0×10^{-5} *28*; α(P)=4.8×10^{-6} *28*
577.98 *6*	0.0008[#] *3*	2296.29	1^+	1718.313	1^+	[M1,E2]		0.041 *22*	%Iγ=0.00071 *27* α(K)=0.033 *19*; α(L)=0.0061 *24*; α(M)=0.0014 *5* α(N)=3.6×10^{-4} *13*; α(O)=6.7×10^{-5} *27*; α(P)=4.5×10^{-6} *26*
579.300 *17*	15.8 *8*	947.248	4^+	367.945	2^+	E2		0.01905 *27*	%Iγ=14.0 *7* α(K)=0.01424 *20*; α(L)=0.00365 *5*; α(M)=0.000888 *12* α(N)=0.0002217 *31*; α(O)=3.99×10^{-5} *6*; α(P)=1.891×10^{-6} *26* Mult.: A_2=0.102 *9*, A_4=0.021 *14*, from 579.30γ, 367.94γ coin. in 1971Ha09; A_2=0.102, A_4=0.009 from 579.28γ, 367.94γ coin. in 1965Sa02; A_2=0.148 *30*, A_4=−0.002 *39* from 579.28ε, 367.94γ coin. in 1965Sa02; α(K)exp=0.016 *2* (1965Sa02).
587.88 *4*	0.0045[#] *6*	2229.276	1^+	1641.453	2^+	[M1,E2]		0.039 *21*	%Iγ=0.0040 *5* α(K)=0.032 *18*; α(L)=0.0058 *23*; α(M)=0.0014 *5* α(N)=3.4×10^{-4} *13*; α(O)=6.4×10^{-5} *25*; α(P)=4.4×10^{-6} *25*
591.66 *3*	0.33[#] *3*	1845.787	3^+	1254.107	2^+	(M1+E2)		0.0590 *8*	%Iγ=0.292 *27* α(K)=0.0486 *7*; α(L)=0.00796 *11*; α(M)=0.001846 *26* α(N)=0.000463 *6*; α(O)=8.76×10^{-5} *12*; α(P)=6.77×10^{-6} *9*
597.41 *4*	0.0022[#] *4*	2331.791	2^+	1734.353	3^+	[M1,E2]		0.038 *20*	%Iγ=0.00195 *35* α(K)=0.030 *17*; α(L)=0.0055 *22*; α(M)=0.0013 *5* α(N)=3.3×10^{-4} *12*; α(O)=6.1×10^{-5} *24*; α(P)=4.2×10^{-6} *24*
598.35 *3*	0.0110[#] *10*	2229.276	1^+	1630.905	1^+	M1(+E2)		0.037 *20*	%Iγ=0.0097 *9* α(K)=0.030 *17*; α(L)=0.0055 *22*; α(M)=0.0013 *5* α(N)=3.3×10^{-4} *12*; α(O)=6.1×10^{-5} *24*; α(P)=4.2×10^{-6} *24*
600.82 *4*	0.0026[#] *3*	2331.791	2^+	1730.934	2^+	[M1,E2]		0.037 *20*	%Iγ=0.00230 *27* α(K)=0.030 *17*; α(L)=0.0055 *22*; α(M)=0.0013 *5* α(N)=3.2×10^{-4} *12*; α(O)=6.0×10^{-5} *24*; α(P)=4.1×10^{-6} *24*
601.48 *5*	0.0038[#] *7*	1630.905	1^+	1029.353	0^+	[M1]		0.0565 *8*	%Iγ=0.0034 *6* α(K)=0.0466 *7*; α(L)=0.00762 *11*; α(M)=0.001767 *25* α(N)=0.000443 *6*; α(O)=8.39×10^{-5} *12*; α(P)=6.48×10^{-6} *9*

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

γ(^{200}Hg) (continued)

E_γ †	I_γ ‡a	E_i(level)	J_i^π	E_f	J_f^π	Mult. †	δ †	α &	Comments
602.73 *7*	≈0.00001 @	1856.790	0^+	1254.107	2^+	[E2]		0.01740 *24*	%Iγ≈8.85×10^{-6} α(K)=0.01312 *18*; α(L)=0.00326 *5*; α(M)=0.000791 *11* α(N)=0.0001976 *28*; α(O)=3.56×10^{-5} *5*; α(P)=1.741×10^{-6} *24*
612.12 *3*	0.285 # *23*	1641.453	2^+	1029.353	0^+	E2		0.01681 *24*	%Iγ=0.252 *20* α(K)=0.01271 *18*; α(L)=0.00312 *4*; α(M)=0.000757 *11* α(N)=0.0001890 *26*; α(O)=3.41×10^{-5} *5*; α(P)=1.686×10^{-6} *24* Mult.: α(K)exp=0.011 *3*.
613.55 *5*	0.0018 # *4*	2331.791	2^+	1718.313	1^+	[M1,E2]		0.035 *18*	%Iγ=0.00159 *35* α(K)=0.028 *16*; α(L)=0.0052 *21*; α(M)=0.0012 *5* α(N)=3.0×10^{-4} *12*; α(O)=5.7×10^{-5} *23*; α(P)=3.9×10^{-6} *22*
626.52 *10*	0.11 # *4*	1573.674	2^+	947.248	4^+	[E2]		0.01596 *22*	%Iγ=0.097 *35* α(K)=0.01211 *17*; α(L)=0.00293 *4*; α(M)=0.000708 *10* α(N)=0.0001769 *25*; α(O)=3.20×10^{-5} *4*; α(P)=1.607×10^{-6} *23*
628.80 *3*	0.96 # *7*	1882.868	2^+	1254.107	2^+	M1(+E2)	≤0.3	0.0489 *16*	%Iγ=0.85 *6* α(K)=0.0403 *13*; α(L)=0.00662 *19*; α(M)=0.00154 *4* α(N)=0.000385 *11*; α(O)=7.29×10^{-5} *20*; α(P)=5.60×10^{-6} *19* Mult.: α(K)exp=0.044 *12* (1965Sa02).
632.85 *5*	0.0045 # *10*	2274.236	$(2)^+$	1641.453	2^+	[M1,E2]		0.033 *17*	%Iγ=0.0040 *9* α(K)=0.026 *14*; α(L)=0.0048 *19*; α(M)=0.0011 *4* α(N)=2.8×10^{-4} *11*; α(O)=5.2×10^{-5} *21*; α(P)=3.6×10^{-6} *20*
635.86 *16*	≈0.0023 #	2229.276	1^+	1593.435	2^+	[M1,E2]		0.032 *17*	%Iγ≈0.00204 α(K)=0.026 *14*; α(L)=0.0047 *19*; α(M)=0.0011 *4* α(N)=2.8×10^{-4} *11*; α(O)=5.2×10^{-5} *21*; α(P)=3.6×10^{-6} *20*
635.86 *16*	≈0.00009 #	2370.053	1^+	1734.353	3^+	[E2]		0.01544 *22*	%Iγ≈7.96×10^{-5} α(K)=0.01175 *16*; α(L)=0.00281 *4*; α(M)=0.000679 *10* α(N)=0.0001697 *24*; α(O)=3.07×10^{-5} *4*; α(P)=1.559×10^{-6} *22*
639.11 *4*	0.00051 # *4*	2370.053	1^+	1730.934	2^+	[M1,E2]		0.032 *16*	%Iγ=0.000451 *35* α(K)=0.026 *14*; α(L)=0.0046 *19*; α(M)=0.0011 *4* α(N)=2.7×10^{-4} *11*; α(O)=5.1×10^{-5} *21*; α(P)=3.5×10^{-6} *20*
643.29 *4*	0.0145 # *21*	2274.236	$(2)^+$	1630.905	1^+	[M1,E2]		0.031 *16*	%Iγ=0.0128 *19* α(K)=0.025 *14*; α(L)=0.0046 *18*; α(M)=0.0011 *4* α(N)=2.7×10^{-4} *10*; α(O)=5.0×10^{-5} *20*; α(P)=3.5×10^{-6} *20*
646.17 *7*	0.0096 # *19*	1593.435	2^+	947.248	4^+	[E2]		0.01490 *21*	%Iγ=0.0085 *17* α(K)=0.01137 *16*; α(L)=0.00269 *4*; α(M)=0.000649 *9* α(N)=0.0001622 *23*; α(O)=2.94×10^{-5} *4*; α(P)=1.508×10^{-6} *21*
651.4 *3*	0.00012 # *4*	2370.053	1^+	1718.313	1^+	[M1,E2]		0.030 *16*	%Iγ=0.000106 *35* α(K)=0.025 *13*; α(L)=0.0044 *18*; α(M)=1.0×10^{-3} *4* α(N)=2.6×10^{-4} *10*; α(O)=4.8×10^{-5} *20*; α(P)=3.4×10^{-6} *19*

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

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02 (continued)

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

E_γ [†]	I_γ [‡a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
655.59 *5*	0.0053[#] *8*	2229.276	1^+	1573.674	2^+	[M1,E2]	0.030 *15*	%Iγ=0.0047 *7* α(K)=0.024 *13*; α(L)=0.0043 *17*; α(M)=1.0×10^{-3} *4* α(N)=2.5×10^{-4} *10*; α(O)=4.8×10^{-5} *19*; α(P)=3.3×10^{-6} *19*
659.01 *3*	0.024[#] *3*	2229.276	1^+	1570.285	1^+	[M1,E2]	0.029 *15*	%Iγ=0.0212 *27* α(K)=0.024 *13*; α(L)=0.0043 *17*; α(M)=1.0×10^{-3} *4* α(N)=2.5×10^{-4} *10*; α(O)=4.7×10^{-5} *19*; α(P)=3.3×10^{-6} *18*
661.36 *3*	2.61 *14*	1029.353	0^+	367.945	2^+	E2	0.01416 *20*	%Iγ=2.31 *12* α(K)=0.01085 *15*; α(L)=0.002524 *35*; α(M)=0.000609 *9* α(N)=0.0001520 *21*; α(O)=2.76×10^{-5} *4*; α(P)=1.439×10^{-6} *20* Mult.: A_2=0.40 *7*, A_4=1.10 *12* from 661.36γ, 367.94γ coin. in 1971Ha09; α(K)exp=0.023 *6* (1965Sa02).
688.94 *3*	0.152[#] *11*	1718.313	1^+	1029.353	0^+	M1	0.0397 *6*	%Iγ=0.135 *10* α(K)=0.0327 *5*; α(L)=0.00533 *7*; α(M)=0.001237 *17* α(N)=0.000310 *4*; α(O)=5.87×10^{-5} *8*; α(P)=4.54×10^{-6} *6* Mult.: α(K)exp=0.038 *7*.
690.28 *6*	0.0042[#] *11*	2331.791	2^+	1641.453	2^+	[M1,E2]	0.026 *13*	%Iγ=0.0037 *10* α(K)=0.021 *11*; α(L)=0.0038 *15*; α(M)=8.9×10^{-4} *34* α(N)=2.2×10^{-4} *9*; α(O)=4.2×10^{-5} *17*; α(P)=2.9×10^{-6} *16*
694.14 *5*	0.061[#] *12*	1641.453	2^+	947.248	4^+	[E2]	0.01275 *18*	%Iγ=0.054 *11* α(K)=0.00984 *14*; α(L)=0.002218 *31*; α(M)=0.000533 *7* α(N)=0.0001332 *19*; α(O)=2.424×10^{-5} *34*; α(P)=1.304×10^{-6} *18*
695.72 *20*	≈0.0028[#]	2288.96	2^+	1593.435	2^+	[M1,E2]	0.026 *13*	%Iγ≈0.00248 α(K)=0.021 *11*; α(L)=0.0037 *15*; α(M)=8.7×10^{-4} *34* α(N)=2.2×10^{-4} *8*; α(O)=4.1×10^{-5} *17*; α(P)=2.9×10^{-6} *16*
700.17 *15*	0.0063[#] *24*	2274.236	$(2)^+$	1573.674	2^+	[M1,E2]	0.025 *13*	%Iγ=0.0056 *21* α(K)=0.021 *11*; α(L)=0.0036 *15*; α(M)=8.5×10^{-4} *33* α(N)=2.1×10^{-4} *8*; α(O)=4.0×10^{-5} *16*; α(P)=2.8×10^{-6} *15*
701.56 *3*	1.79[#] *16*	1730.934	2^+	1029.353	0^+	(E2)	0.01246 *17*	%Iγ=1.58 *14* α(K)=0.00963 *13*; α(L)=0.002156 *30*; α(M)=0.000518 *7* α(N)=0.0001295 *18*; α(O)=2.357×10^{-5} *33*; α(P)=1.276×10^{-6} *18*
703.82 *5*	0.029[#] *5*	2274.236	$(2)^+$	1570.285	1^+	[M1,E2]	0.025 *13*	%Iγ=0.026 *4* α(K)=0.020 *11*; α(L)=0.0036 *15*; α(M)=8.4×10^{-4} *33* α(N)=2.1×10^{-4} *8*; α(O)=3.9×10^{-5} *16*; α(P)=2.8×10^{-6} *15*
710.93 *12*	0.00013[#] *6*	2370.053	1^+	1659.017	3^+	[E2]	0.01211 *17*	%Iγ=0.00012 *5* α(K)=0.00938 *13*; α(L)=0.002083 *29*; α(M)=0.000500 *7* α(N)=0.0001249 *18*; α(O)=2.276×10^{-5} *32*; α(P)=1.243×10^{-6} *17*
711.70 *5*	0.31 *4*	1659.017	3^+	947.248	4^+	M1(+E2)	0.024 *12*	%Iγ=0.274 *35* α(K)=0.020 *10*; α(L)=0.0035 *14*; α(M)=8.2×10^{-4} *32*

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

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02 (continued)

γ(^{200}Hg) (continued)

E_γ [†]	I_γ [‡a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
								α(N)=2.0×10^{-4} *8*; α(O)=3.8×10^{-5} *16*; α(P)=2.7×10^{-6} *15* Mult.: α(K)exp=0.030 *5*.
713.94 *10*	0.0043[#] *8*	2229.276	1$^+$	1515.183	0$^+$	[M1]	0.0362 *5*	%Iγ=0.0038 *7* α(K)=0.0299 *4*; α(L)=0.00486 *7*; α(M)=0.001127 *16* α(N)=0.000282 *4*; α(O)=5.35×10^{-5} *7*; α(P)=4.14×10^{-6} *6*
718.04 *10*	0.056[#] *15*	1972.287	(2)$^+$	1254.107	2$^+$	[M1,E2]	0.024 *12*	%Iγ=0.050 *13* α(K)=0.019 *10*; α(L)=0.0034 *14*; α(M)=8.0×10^{-4} *31* α(N)=2.0×10^{-4} *8*; α(O)=3.7×10^{-5} *15*; α(P)=2.6×10^{-6} *14*
718.55 *13*	0.0059[#] *23*	2288.96	2$^+$	1570.285	1$^+$	[M1,E2]	0.024 *12*	%Iγ=0.0052 *20* α(K)=0.019 *10*; α(L)=0.0034 *14*; α(M)=8.0×10^{-4} *31* α(N)=2.0×10^{-4} *8*; α(O)=3.7×10^{-5} *15*; α(P)=2.6×10^{-6} *14*
720.21 *5*	0.042[#] *4*	1974.346	(3)$^+$	1254.107	2$^+$	[M1,E2]	0.024 *12*	%Iγ=0.0372 *35* α(K)=0.019 *10*; α(L)=0.0034 *14*; α(M)=7.9×10^{-4} *31* α(N)=2.0×10^{-4} *8*; α(O)=3.7×10^{-5} *15*; α(P)=2.6×10^{-6} *14*
722.2 *5*	≈0.0008[#]	2296.29	1$^+$	1573.674	2$^+$	[M1,E2]	0.023 *12*	%Iγ≈0.000708 α(K)=0.019 *10*; α(L)=0.0034 *14*; α(M)=7.9×10^{-4} *31* α(N)=2.0×10^{-4} *8*; α(O)=3.7×10^{-5} *15*; α(P)=2.6×10^{-6} *14*
728.45 *7*	0.00051[#] *5*	2370.053	1$^+$	1641.453	2$^+$	[M1,E2]	0.023 *11*	%Iγ=0.00045 *4* α(K)=0.019 *10*; α(L)=0.0033 *13*; α(M)=7.7×10^{-4} *30* α(N)=1.9×10^{-4} *8*; α(O)=3.6×10^{-5} *15*; α(P)=2.6×10^{-6} *14*
738.5 *2*	≈0.0018[#]	2331.791	2$^+$	1593.435	2$^+$	[M1,E2]	0.022 *11*	%Iγ≈0.00159 α(K)=0.018 *9*; α(L)=0.0032 *13*; α(M)=7.4×10^{-4} *29* α(N)=1.9×10^{-4} *7*; α(O)=3.5×10^{-5} *14*; α(P)=2.5×10^{-6} *13*
739.05 *16*	0.00026[#] *8*	2370.053	1$^+$	1630.905	1$^+$	[M1,E2]	0.022 *11*	%Iγ=0.00023 *7* α(K)=0.018 *9*; α(L)=0.0032 *13*; α(M)=7.4×10^{-4} *29* α(N)=1.9×10^{-4} *7*; α(O)=3.5×10^{-5} *14*; α(P)=2.5×10^{-6} *13*
747.30 *9*	0.0037[#] *7*	2388.70	(1,2,3)$^+$	1641.453	2$^+$	[M1,E2]	0.022 *11*	%Iγ=0.0033 *6* α(K)=0.018 *9*; α(L)=0.0031 *12*; α(M)=7.2×10^{-4} *28* α(N)=1.8×10^{-4} *7*; α(O)=3.4×10^{-5} *14*; α(P)=2.4×10^{-6} *13*
759.30 *11*	0.0080[#] *16*	2274.236	(2)$^+$	1515.183	0$^+$	[E2]	0.01054 *15*	%Iγ=0.0071 *14* α(K)=0.00823 *12*; α(L)=0.001758 *25*; α(M)=0.000421 *6* α(N)=0.0001051 *15*; α(O)=1.921×10^{-5} *27*; α(P)=1.089×10^{-6} *15*
761.43 *12*	0.0042[#] *17*	2331.791	2$^+$	1570.285	1$^+$	[M1,E2]	0.021 *10*	%Iγ=0.0037 *15* α(K)=0.017 *9*; α(L)=0.0029 *12*; α(M)=6.8×10^{-4} *27* α(N)=1.7×10^{-4} *7*; α(O)=3.2×10^{-5} *13*; α(P)=2.3×10^{-6} *12*
780.96 *11*	0.0011[#] *3*	2296.29	1$^+$	1515.183	0$^+$	[M1]	0.0287 *4*	%Iγ=0.00097 *27*

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

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02 (continued)

γ(^{200}Hg) (continued)

E_γ †	I_γ ‡a	E_i(level)	J_i^π	E_f	J_f^π	Mult.†	δ†	α&	Comments
									α(K)=0.02371 *33*; α(L)=0.00385 *5*; α(M)=0.000891 *12* α(N)=0.0002235 *31*; α(O)=4.24×10^{-5} *6*; α(P)=3.28×10^{-6} *5*
783.71 *4*	0.65# *5*	1730.934	2$^+$	947.248	4$^+$	E2		0.00986 *14*	%Iγ=0.58 *4* α(K)=0.00774 *11*; α(L)=0.001623 *23*; α(M)=0.000388 *5* α(N)=9.68×10^{-5} *14*; α(O)=1.773×10^{-5} *25*; α(P)=1.023×10^{-6} *14*
787.10 *4*	1.18 *20*	1734.353	3$^+$	947.248	4$^+$	M1+E2	+0.08 *4*	0.0280 *4*	%Iγ=1.04 *18* α(K)=0.02314 *35*; α(L)=0.00376 *6*; α(M)=0.000870 *13* α(N)=0.0002182 *32*; α(O)=4.13×10^{-5} *6*; α(P)=3.20×10^{-6} *5* Mult.: α(K)exp=0.020 *4* (1965Sa02).
796.41 *6*	0.00106# *9*	2370.053	1$^+$	1573.674	2$^+$	M1		0.0273 *4*	%Iγ=0.00094 *8* α(K)=0.02254 *32*; α(L)=0.00366 *5*; α(M)=0.000847 *12* α(N)=0.0002124 *30*; α(O)=4.02×10^{-5} *6*; α(P)=3.12×10^{-6} *4*
799.90 *18*	0.00036# *11*	2370.053	1$^+$	1570.285	1$^+$	[M1,E2]		0.018 *9*	%Iγ=0.00032 *10* α(K)=0.015 *7*; α(L)=0.0026 *10*; α(M)=6.0×10^{-4} *23* α(N)=1.5×10^{-4} *6*; α(O)=2.8×10^{-5} *11*; α(P)=2.0×10^{-6} *11*
807.20 *5*	0.00157# *11*	2061.264	1$^+$	1254.107	2$^+$	M1(+E2)	0.6 *6*	0.022 *6*	%Iγ=0.00139 *10* α(K)=0.018 *5*; α(L)=0.0030 *7*; α(M)=0.00070 *15* α(N)=0.00017 *4*; α(O)=3.3×10^{-5} *7*; α(P)=2.5×10^{-6} *7*
818.33 *11*	0.0063# *10*	2388.70	(1,2,3)$^+$	1570.285	1$^+$	[M1,E2]		0.017 *8*	%Iγ=0.0056 *9* α(K)=0.014 *7*; α(L)=0.0024 *10*; α(M)=5.7×10^{-4} *22* α(N)=1.4×10^{-4} *6*; α(O)=2.7×10^{-5} *11*; α(P)=1.9×10^{-6} *10*
(827.436 *14*)		1856.790	0$^+$	1029.353	0$^+$	E0			
828.27 *4*	12.4 *7*	1775.566	3$^+$	947.248	4$^+$	M1+E2	−0.04 *3*	0.02466 *35*	%Iγ=11.0 *6* α(K)=0.02037 *29*; α(L)=0.00330 *5*; α(M)=0.000764 *11* α(N)=0.0001916 *27*; α(O)=3.63×10^{-5} *5*; α(P)=2.82×10^{-6} *4* Mult.: A_2=−0.057 *10*, A_4=−0.015 *15* from 828.32γ, 579.30γ, 367.94γ coin. in 1971Ha09; A_2=−0.031 *21*, A_4=0.007 *29* from 828.27γ, 579.28γ coin. in 1965Sa02; α(K)exp=0.025 *3* (1965Sa02). δ: Others (γγ(θ)): 0.10 *2* (1971Ha09), +0.07 (1965Sa02) and 1.0 *1* (1957Li39).
872.93 *14*	0.08 *2*	2126.863	2$^+$	1254.107	2$^+$	[M1,E2]		0.015 *7*	%Iγ=0.071 *18* α(K)=0.012 *6*; α(L)=0.0021 *8*; α(M)=4.8×10^{-4} *19* α(N)=1.2×10^{-4} *5*; α(O)=2.3×10^{-5} *9*; α(P)=1.6×10^{-6} *8*

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

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02 (continued)

γ(^{200}Hg) (continued)

E_γ[†]	I_γ[‡a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	δ[†]	α[&]	Comments
886.20 *4*	2.32 *14*	1254.107	2^+	367.945	2^+	E2+M1	−1.79 *17*	0.0108 *5*	%Iγ=2.05 *12* α(K)=0.0087 *4*; α(L)=0.00158 *6*; α(M)=0.000370 *15* α(N)=9.3×10^{-5} *4*; α(O)=1.73×10^{-5} *7*; α(P)=1.18×10^{-6} *6* Mult.: A_2=0.20 *9*, A_4=0.32 *17* from 886.20γ, 367.94γ coin. in 1971Ha09; α(K)exp=0.036 *11* (1965Sa02). δ: 2.8 *+13−8* from γγ(θ) in 1971Ha09.
898.56 *7*	0.71 *5*	1845.787	3^+	947.248	4^+	M1+E2	−0.07 *4*	0.01997 *29*	%Iγ=0.63 *4* α(K)=0.01650 *24*; α(L)=0.00267 *4*; α(M)=0.000618 *9* α(N)=0.0001549 *23*; α(O)=2.94×10^{-5} *4*; α(P)=2.279×10^{-6} *34* Mult.: α(K)exp=0.0070 *14* (1965Sa02).
936.1 *4*	0.07 *4*	1882.868	2^+	947.248	4^+	(E2)		0.00688 *10*	%Iγ=0.062 *35* α(K)=0.00550 *8*; α(L)=0.001057 *15*; α(M)=0.0002500 *35* α(N)=6.25×10^{-5} *9*; α(O)=1.154×10^{-5} *16*; α(P)=7.23×10^{-7} *10* E_γ: From 1971Ko03.
975.15 *7*	0.09 *3*	2229.276	1^+	1254.107	2^+	M1+E2	0.8 *+6−4*	0.0124 *27*	%Iγ=0.080 *27* α(K)=0.0102 *23*; α(L)=0.00170 *33*; α(M)=0.00039 *7* α(N)=9.9×10^{-5} *19*; α(O)=1.9×10^{-5} *4*; α(P)=1.39×10^{-6} *32*
1027.11 *20*	0.07 *2*	1974.346	$(3)^+$	947.248	4^+	M1(+E2)		0.010 *4*	%Iγ=0.062 *18* α(K)=0.008 *4*; α(L)=0.0014 *5*; α(M)=3.2×10^{-4} *12* α(N)=8.0×10^{-5} *30*; α(O)=1.5×10^{-5} *6*; α(P)=1.1×10^{-6} *5* E_γ: From 1971Ko03.
(1029.348 *9*)		1029.353	0^+	0.0	0^+	E0			
1034.9 *10*	≈0.013[#]	2288.96	2^+	1254.107	2^+	[M1,E2]		0.010 *4*	%Iγ≈0.01150 α(K)=0.0081 *35*; α(L)=0.0013 *5*; α(M)=3.1×10^{-4} *12* α(N)=7.9×10^{-5} *29*; α(O)=1.5×10^{-5} *6*; α(P)=1.1×10^{-6} *5*
1042.4 *3*	0.0072[#] *21*	2296.29	1^+	1254.107	2^+	M1		0.01372 *19*	%Iγ=0.0064 *19* α(K)=0.01134 *16*; α(L)=0.001824 *26*; α(M)=0.000422 *6* α(N)=0.0001059 *15*; α(O)=2.007×10^{-5} *28*; α(P)=1.562×10^{-6} *22*
1116 *1*	≈0.000255[#]	2370.053	1^+	1254.107	2^+	[M1,E2]		0.0082 *33*	%Iγ≈0.000226 α(K)=0.0067 *28*; α(L)=0.0011 *4*; α(M)=2.6×10^{-4} *9* α(N)=6.5×10^{-5} *24*; α(O)=1.2×10^{-5} *5*; α(P)=9.E−7 *4*; α(IPF)=4.2×10^{-7} *11*
1147.20 *8*	0.14 *4*	1515.183	0^+	367.945	2^+	E2		0.00463 *6*	%Iγ=0.124 *35* α(K)=0.00375 *5*; α(L)=0.000668 *9*; α(M)=0.0001568 *22* α(N)=3.92×10^{-5} *5*; α(O)=7.30×10^{-6} *10*; α(P)=4.91×10^{-7} *7*; α(IPF)=9.74×10^{-7} *14*
1167.1 *3*	0.12 *4*	2114.362	3^+	947.248	4^+	M1(+E2)		0.0074 *29*	%Iγ=0.106 *35* α(K)=0.0061 *24*; α(L)=1.0×10^{-3} *4*; α(M)=2.3×10^{-4} *8*

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02 (continued)

γ(^{200}Hg) (continued)

E_γ[†]	I_γ[‡a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	δ[†]	α[&]	Comments
									α(N)=5.8×10^{-5} *21*; α(O)=1.1×10^{-5} *4*; α(P)=8.2×10^{-7} *35*; α(IPF)=2.4×10^{-6} *6*
1180.5 *3*	0.13 *4*	2126.863	2$^+$	947.248	4$^+$	[E2]		0.00438 *6*	E_γ: From 1971Ko03. Mult.: α(K)exp=0.013 *4*. %Iγ=0.115 *35* α(K)=0.00356 *5*; α(L)=0.000628 *9*; α(M)=0.0001472 *21* α(N)=3.68×10^{-5} *5*; α(O)=6.86×10^{-6} *10*; α(P)=4.65×10^{-7} *7*; α(IPF)=2.56×10^{-6} *4*
1202.35 *7*	0.124[#] *12*	1570.285	1$^+$	367.945	2$^+$	M1+E2	−0.43 *4*	0.00873 *18*	%Iγ=0.110 *11* α(K)=0.00721 *15*; α(L)=0.001162 *23*; α(M)=0.000269 *5* α(N)=6.75×10^{-5} *13*; α(O)=1.277×10^{-5} *26*; α(P)=9.87×10^{-7} *21*; α(IPF)=6.66×10^{-6} *12*
1205.75 *7*	34.4 *19*	1573.674	2$^+$	367.945	2$^+$	M1+E2	+0.252 *19*	0.00917 *14*	%Iγ=30.4 *17* α(K)=0.00758 *11*; α(L)=0.001217 *18*; α(M)=0.000282 *4* α(N)=7.06×10^{-5} *10*; α(O)=1.338×10^{-5} *20*; α(P)=1.040×10^{-6} *16*; α(IPF)=7.43×10^{-6} *11* Mult.: A_2=0.040 *21*, A_4=0.06 *4* from 1205.75γ, 367.94γ coin. in 1971Ha09; A_2=0.078 *6*; A_4=0.029 *9* from 1205.70γ, 367.94γ coin. in 1965Sa02; α(K)exp=0.0065 *7* (1965Sa02). δ: Others: −0.24 *1* (1957Li39), −0.27 *+2−3* (1971Ha09) and −0.25 (1965Sa02)from γγ(θ).
1225.44 *8*	3.85 *23*	1593.435	2$^+$	367.945	2$^+$	M1+E2(+E0)	−2.48 *+16−32*	0.00479 *15*	%Iγ=3.41 *20* α(K)=0.00391 *13*; α(L)=0.000667 *19*; α(M)=0.000156 *4* α(N)=3.90×10^{-5} *11*; α(O)=7.30×10^{-6} *21*; α(P)=5.18×10^{-7} *18*; α(IPF)=7.06×10^{-6} *15* Mult.: A_2=0.26 *4*; A_4=0.25 *7* from 1225.50γ, 367.94γ coin. in 1971Ha09; α(K)exp=0.0043 *6* (1965Sa02). δ: Other: 2.2 *+3−4* from γγ(θ) in 1971Ha09.
1254.14 *10*	1.07 *8*	1254.107	2$^+$	0.0	0$^+$	E2		0.00391 *5*	%Iγ=0.95 *7* α(K)=0.00318 *4*; α(L)=0.000552 *8*; α(M)=0.0001290 *18* α(N)=3.23×10^{-5} *5*; α(O)=6.02×10^{-6} *8*; α(P)=4.15×10^{-7} *6*; α(IPF)=9.75×10^{-6} *14* Mult.: α(K)exp=0.0033 *11*.
1262.96 *8*	0.90 *8*	1630.905	1$^+$	367.945	2$^+$	M1+E2	+0.12 *5*	0.00838 *13*	%Iγ=0.80 *7* α(K)=0.00692 *11*; α(L)=0.001108 *17*; α(M)=0.000256 *4* α(N)=6.42×10^{-5} *10*; α(O)=1.218×10^{-5} *19*; α(P)=9.50×10^{-7} *15*; α(IPF)=1.796×10^{-5} *27*
1266.9 *6*	≈0.0095[#]	2296.29	1$^+$	1029.353	0$^+$	[M1]		0.00838 *12*	%Iγ≈0.00841 α(K)=0.00692 *10*; α(L)=0.001107 *16*; α(M)=0.000256 *4*

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

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02 (continued)

γ(^{200}Hg) (continued)

E_γ[†]	I_γ[‡a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	δ[†]	α[&]	Comments
									α(N)=6.42×10^{-5} *9*; α(O)=1.217×10^{-5} *17*; α(P)=9.51×10^{-7} *13*; α(IPF)=1.890×10^{-5} *29*
1273.43 *10*	3.80 *23*	1641.453	2$^+$	367.945	2$^+$	M1(+E2)	+0.02 *3*	0.00828 *12*	%Iγ=3.36 *20* α(K)=0.00683 *10*; α(L)=0.001093 *15*; α(M)=0.0002527 *35* α(N)=6.33×10^{-5} *9*; α(O)=1.201×10^{-5} *17*; α(P)=9.38×10^{-7} *13*; α(IPF)=2.032×10^{-5} *29* Mult.: A_2=0.24 *3*; A_4=−0.01 *4* from 1273.43γ, 367.94γ coin. in 1971Ha09. δ: Other: −0.01 *4* using γγ(θ) in 1971Ha09.
1291.11 *11*	0.69 *6*	1659.017	3$^+$	367.945	2$^+$	M1(+E2)		0.0059 *21*	%Iγ=0.61 *5* α(K)=0.0048 *18*; α(L)=7.9×10^{-4} *27*; α(M)=1.8×10^{-4} *6* α(N)=4.6×10^{-5} *15*; α(O)=8.6×10^{-6} *30*; α(P)=6.5×10^{-7} *26*; α(IPF)=2.0×10^{-5} *5* E_γ: From 1971Ko03.
1341.7 *5*	0.049[#] *16*	2288.96	2$^+$	947.248	4$^+$	(E2)		0.00346 *5*	%Iγ=0.043 *14* α(K)=0.00281 *4*; α(L)=0.000479 *7*; α(M)=0.0001117 *16* α(N)=2.79×10^{-5} *4*; α(O)=5.22×10^{-6} *7*; α(P)=3.66×10^{-7} *5*; α(IPF)=2.354×10^{-5} *34* Mult.: α(K)=0.0038 *15* (1965Sa02).
1350.35 *16*	0.170 *15*	1718.313	1$^+$	367.945	2$^+$	M1+E2	+0.035 *31*	0.00716 *10*	%Iγ=0.150 *13* α(K)=0.00589 *8*; α(L)=0.000940 *13*; α(M)=0.0002174 *31* α(N)=5.45×10^{-5} *8*; α(O)=1.034×10^{-5} *15*; α(P)=8.08×10^{-7} *11*; α(IPF)=4.16×10^{-5} *6* E_γ: From 1971Ko03.
1363.2 *2*	3.9 *4*	1730.934	2$^+$	367.945	2$^+$	M1+E2	−0.32 *10*	0.00666 *23*	%Iγ=3.45 *35* α(K)=0.00548 *19*; α(L)=0.000876 *29*; α(M)=0.000203 *7* α(N)=5.08×10^{-5} *17*; α(O)=9.63×10^{-6} *32*; α(P)=7.49×10^{-7} *27*; α(IPF)=4.44×10^{-5} *12* E_γ: Other: 1362.9 keV *3* in 1971Ko03. Mult.: A_2=0.49 *8*; A_4=0.19 *13* from 1362.2γ, 367.94γ coin. in 1971Ha09; α(K)exp=0.0050 *8* (1965Sa02). δ: Other: 1.0 *+2−5* using γγ(θ) in 1971Ha09.
1366.8 *7*	1.0 *3*	1734.353	3$^+$	367.945	2$^+$	M1(+E2)		0.0051 *18*	%Iγ=0.88 *27* α(K)=0.0042 *15*; α(L)=6.9×10^{-4} *23*; α(M)=1.6×10^{-4} *5* α(N)=4.0×10^{-5} *13*; α(O)=7.5×10^{-6} *25*; α(P)=5.7×10^{-7} *22*; α(IPF)=3.8×10^{-5} *9* Mult.: α(K)exp=0.0050 *8* (1965Sa02).
1385.0 *3*	0.042[#] *8*	2331.791	2$^+$	947.248	4$^+$	(E2)		0.00327 *5*	%Iγ=0.037 *7* α(K)=0.00265 *4*; α(L)=0.000448 *6*; α(M)=0.0001045 *15*

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

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02 (continued)

γ(^{200}Hg) (continued)

E_γ †	I_γ ‡a	E_i(level)	J_i^π	E_f	J_f^π	Mult.†	δ†	α&	Comments
									α(N)=2.61×10^{-5} *4*; α(O)=4.89×10^{-6} *7*; α(P)=3.45×10^{-7} *5*; α(IPF)=3.31×10^{-5} *5*
1407.64 *11*	1.66 *15*	1775.566	3$^+$	367.945	2$^+$	M1+E2	0.44 *+3−5*	0.00594 *13*	%Iγ=1.47 *13* α(K)=0.00487 *11*; α(L)=0.000779 *17*; α(M)=0.000180 *4* α(N)=4.52×10^{-5} *10*; α(O)=8.56×10^{-6} *18*; α(P)=6.64×10^{-7} *15*; α(IPF)=5.93×10^{-5} *11* E_γ: From 1971Ko03. Mult.,δ: A_2=−0.38 *2*; A_4=0.01 *3* from 1407.64γ, 367.94γ coin. in 1971Ha09; Other: α(K)exp=0.0030 *6* (1965Sa02).
1477.78 *14*	0.174 *15*	1845.787	3$^+$	367.945	2$^+$	[M1,E2]		0.0043 *14*	%Iγ=0.154 *13* α(K)=0.0035 *12*; α(L)=5.7×10^{-4} *18*; α(M)=1.3×10^{-4} *4* α(N)=3.3×10^{-5} *10*; α(O)=6.3×10^{-6} *20*; α(P)=4.8×10^{-7} *17*; α(IPF)=7.6×10^{-5} *18* E_γ: From 1971Ko03.
1488.5 *4*	≈0.0007@	1856.790	0$^+$	367.945	2$^+$	E2		0.00289 *4*	%Iγ≈0.000619 α(K)=0.002328 *33*; α(L)=0.000387 *5*; α(M)=8.99×10^{-5} *13* α(N)=2.250×10^{-5} *32*; α(O)=4.22×10^{-6} *6*; α(P)=3.03×10^{-7} *4*; α(IPF)=6.14×10^{-5} *9*
1514.90 *10*	4.6 *3*	1882.868	2$^+$	367.945	2$^+$	M1+E2(+E0)	+0.10 *4*	0.00542 *8*	%Iγ=4.07 *27* α(K)=0.00440 *6*; α(L)=0.000699 *10*; α(M)=0.0001617 *24* α(N)=4.05×10^{-5} *6*; α(O)=7.69×10^{-6} *11*; α(P)=6.02×10^{-7} *9*; α(IPF)=0.0001121 *16* E_γ: From 1971Ko03. Mult.: A_2=0.14 *3*; A_4=0.11 *5* from 1514.90γ, 367.94γ coin. in 1971Ha09; A_2=0.104 *14*, A_4=−0.017 *20* from 1514.90γ, 367.94γ coin. in 1965Sa02; α(K)exp=0.0042 *5* (1965Sa02). δ: Other: −0.14 *4* and −0.25 from γγ(θ) in 1971Ha09 and 1965Sa02, respectively.
(1515.178 *9*)		1515.183	0$^+$	0.0	0$^+$	E0			
1570.45 *15*	0.31 *5*	1570.285	1$^+$	0.0	0$^+$	M1		0.00501 *7*	%Iγ=0.27 *4* α(K)=0.00404 *6*; α(L)=0.000641 *9*; α(M)=0.0001483 *21* α(N)=3.72×10^{-5} *5*; α(O)=7.05×10^{-6} *10*; α(P)=5.52×10^{-7} *8*; α(IPF)=0.0001423 *20*
1573.6 *10*	0.06 *3*	1573.674	2$^+$	0.0	0$^+$	[E2]		0.00264 *4*	%Iγ=0.053 *27* α(K)=0.002105 *30*; α(L)=0.000346 *5*; α(M)=8.03×10^{-5} *11* α(N)=2.009×10^{-5} *28*; α(O)=3.77×10^{-6} *5*; α(P)=2.73×10^{-7} *4*; α(IPF)=8.93×10^{-5} *13* E_γ: From 1971Ko03.
1593.18 *18*	0.042# *27*	1593.435	2$^+$	0.0	0$^+$	[E2]		0.00259 *4*	%Iγ=0.037 *24*

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02 (continued)

γ(^{200}Hg) (continued)

E_γ[†]	I_γ[‡a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	δ[†]	α[&]	Comments
									α(K)=0.002059 *29*; α(L)=0.000337 *5*; α(M)=7.83×10^{-5} *11* α(N)=1.959×10^{-5} *27*; α(O)=3.68×10^{-6} *5*; α(P)=2.67×10^{-7} *4*; α(IPF)=9.63×10^{-5} *14*
1604.50 *14*	1.34 *11*	1972.287	(2)$^+$	367.945	2$^+$	M1+E2	+0.15 *4*	0.00473 *7*	%Iγ=1.19 *10* α(K)=0.00379 *6*; α(L)=0.000602 *9*; α(M)=0.0001390 *21* α(N)=3.48×10^{-5} *5*; α(O)=6.61×10^{-6} *10*; α(P)=5.18×10^{-7} *8*; α(IPF)=0.0001602 *24* E_γ: From 1971Ko03. Mult.: α(K)exp=0.007 *3* (1965Sa02).
1630.7 *4*	0.077[#] *17*	1630.905	1$^+$	0.0	0$^+$	(M1)		0.00461 *6*	%Iγ=0.068 *15* α(K)=0.00367 *5*; α(L)=0.000583 *8*; α(M)=0.0001347 *19* α(N)=3.38×10^{-5} *5*; α(O)=6.41×10^{-6} *9*; α(P)=5.02×10^{-7} *7*; α(IPF)=0.0001767 *25*
1693.13 *14*	0.091 *8*	2061.264	1$^+$	367.945	2$^+$	M1+E2	−0.03 *2*	0.00424 *6*	%Iγ=0.081 *7* α(K)=0.00334 *5*; α(L)=0.000530 *7*; α(M)=0.0001224 *17* α(N)=3.07×10^{-5} *4*; α(O)=5.82×10^{-6} *8*; α(P)=4.57×10^{-7} *6*; α(IPF)=0.0002137 *30*
1718.35 *14*	0.38 *3*	1718.313	1$^+$	0.0	0$^+$	M1		0.00411 *6*	%Iγ=0.336 *26* α(K)=0.00322 *5*; α(L)=0.000511 *7*; α(M)=0.0001180 *17* α(N)=2.96×10^{-5} *4*; α(O)=5.61×10^{-6} *8*; α(P)=4.40×10^{-7} *6*; α(IPF)=0.0002294 *32* E_γ: From 1971Ko03. Mult.: α(K)exp=0.0034 *5*.
1746.40 *18*	0.065 *7*	2114.362	3$^+$	367.945	2$^+$	M1(+E2)		0.0031 *9*	%Iγ=0.058 *6* α(K)=0.0024 *7*; α(L)=3.9×10^{-4} *10*; α(M)=8.9×10^{-5} *24* α(N)=2.2×10^{-5} *6*; α(O)=4.2×10^{-6} *12*; α(P)=3.2×10^{-7} *10*; α(IPF)=0.00020 *5* E_γ: From 1971Ko03. Mult.: α(K)exp=0.0055 *13*.
1759.15 *14*	0.21 *2*	2126.863	2$^+$	367.945	2$^+$	M1(+E2)		0.0031 *8*	%Iγ=0.186 *18* α(K)=0.0024 *7*; α(L)=3.8×10^{-4} *10*; α(M)=8.8×10^{-5} *24* α(N)=2.2×10^{-5} *6*; α(O)=4.2×10^{-6} *11*; α(P)=3.2×10^{-7} *10*; α(IPF)=0.00021 *5* E_γ: From 1971Ko03. Mult.: α(K)exp=0.0030 *6*.
1783.4 *1*	0.016 *4*	2151.35	3$^-$	367.945	2$^+$	[E1]		1.23×10^{-3} *2*	%Iγ=0.0142 *35* α(K)=0.0007138 *99*; α(L)=0.0001040 *15*; α(M)=2.375×10^{-5} *33* α(N)=5.93×10^{-6} *8*; α(O)=1.122×10^{-6} *16*; α(P)=8.76×10^{-8} *12*; α(IPF)=0.000378 *5*

$^{200}_{80}Hg_{120}$-20

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02 (continued)

γ(^{200}Hg) (continued)

E_γ[†]	I_γ[‡a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	δ[†]	α[&]	Comments
(1856.784 *10*)		1856.790	0^+	0.0	0^+	E0			
1861.0 *5*	0.009 *4*	2229.276	1^+	367.945	2^+	[M1,E2]		0.0028 *7*	%Iγ=0.0080 *35* α(K)=0.0021 *5*; α(L)=3.3×10^{-4} *8*; α(M)=7.7×10^{-5} *20* α(N)=1.9×10^{-5} *5*; α(O)=3.6×10^{-6} *9*; α(P)=2.8×10^{-7} *8*; α(IPF)=0.00026 *6* E_γ: From 1971Ko03.
1870.56 *22*	0.035 *6*	2238.51	(3)	367.945	2^+	[M1,E1]		0.0023 *11*	%Iγ=0.031 *5* α(K)=0.0016 *10*; α(L)=2.5×10^{-4} *16*; α(M)=6.E−5 *4* α(N)=1.5×10^{-5} *9*; α(O)=2.8×10^{-6} *17*; α(P)=2.2×10^{-7} *14*; α(IPF)=0.00039 *6* E_γ: From 1971Ko03.
1906.30 *18*	0.131 *11*	2274.236	$(2)^+$	367.945	2^+	(E2)		2.02×10^{-3} *3*	%Iγ=0.116 *10* α(K)=0.001488 *21*; α(L)=0.0002366 *33*; α(M)=5.47×10^{-5} *8* α(N)=1.368×10^{-5} *19*; α(O)=2.58×10^{-6} *4*; α(P)=1.925×10^{-7} *27*; α(IPF)=0.0002248 *31* E_γ: From 1971Ko03.
1921.1 *3*	0.074 *9*	2288.96	2^+	367.945	2^+	(M1)		0.00330 *5*	%Iγ=0.065 *8* α(K)=0.002435 *34*; α(L)=0.000385 *5*; α(M)=8.89×10^{-5} *12* α(N)=2.228×10^{-5} *31*; α(O)=4.23×10^{-6} *6*; α(P)=3.32×10^{-7} *5*; α(IPF)=0.000363 *5* Mult.: α(K)=0.0010 *4*.
1928.2 *3*	0.0076[#] *25*	2296.29	1^+	367.945	2^+	[M1,E2]		0.0026 *6*	%Iγ=0.0067 *22* α(K)=0.0019 *5*; α(L)=0.00031 *8*; α(M)=7.1×10^{-5} *17* α(N)=1.8×10^{-5} *4*; α(O)=3.4×10^{-6} *8*; α(P)=2.6×10^{-7} *7*; α(IPF)=0.00030 *7*
1963.5 *4*	0.018 *5*	2331.791	2^+	367.945	2^+	[M1,E2]		0.0026 *6*	%Iγ=0.016 *4* α(K)=0.0019 *4*; α(L)=0.00029 *7*; α(M)=6.8×10^{-5} *16* α(N)=1.7×10^{-5} *4*; α(O)=3.2×10^{-6} *8*; α(P)=2.5×10^{-7} *7*; α(IPF)=0.00032 *7*
1975.8 *3*	0.052 *7*	2343.602	$1^+,2^+,3^+$	367.945	2^+	M1(+E2)		0.0025 *6*	%Iγ=0.046 *6* α(K)=0.0018 *4*; α(L)=0.00029 *7*; α(M)=6.7×10^{-5} *16* α(N)=1.7×10^{-5} *4*; α(O)=3.2×10^{-6} *8*; α(P)=2.5×10^{-7} *6*; α(IPF)=0.00033 *7*
2002.1 *2*	0.049 *7*	2370.053	1^+	367.945	2^+	M1(+E2)	−0.014 *19*	0.00307 *4*	%Iγ=0.043 *6* α(K)=0.002196 *31*; α(L)=0.000347 *5*; α(M)=8.01×10^{-5} *11*

$^{200}_{80}Hg_{120}$-21

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02 (continued)

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

E_γ[†]	I_γ[‡a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
								%Iγ=0.043 *6* α(K)=0.002196 *31*; α(L)=0.000347 *5*; α(M)=8.01×10^{-5} *11* α(N)=2.007×10^{-5} *28*; α(O)=3.81×10^{-6} *5*; α(P)=3.00×10^{-7} *4*; α(IPF)=0.000418 *6*
2020.5 *7*	0.033 *4*	2388.70	(1,2,3)$^+$	367.945	2$^+$	M1+E2	0.0025 *6*	%Iγ=0.0292 *35* α(K)=0.0017 *4*; α(L)=0.00028 *6*; α(M)=6.4×10^{-5} *15* α(N)=1.6×10^{-5} *4*; α(O)=3.0×10^{-6} *7*; α(P)=2.3×10^{-7} *6*; α(IPF)=0.00035 *8*
2229.0 *10*	0.004 *2*	2229.276	1$^+$	0.0	0$^+$	[M1]	0.00260 *4*	%Iγ=0.0035 *18* α(K)=0.001679 *24*; α(L)=0.000264 *4*; α(M)=6.10×10^{-5} *9* α(N)=1.530×10^{-5} *21*; α(O)=2.90×10^{-6} *4*; α(P)=2.288×10^{-7} *32*; α(IPF)=0.000575 *8* E_γ: From 1971Ko03.
2274.0 *6*	0.019 *5*	2274.236	(2)$^+$	0.0	0$^+$	[E2]	1.70×10^{-3} *2*	%Iγ=0.017 *4* α(K)=0.001084 *15*; α(L)=0.0001684 *24*; α(M)=3.88×10^{-5} *5* α(N)=9.71×10^{-6} *14*; α(O)=1.833×10^{-6} *26*; α(P)=1.398×10^{-7} *20*; α(IPF)=0.000395 *6* E_γ: From 1971Ko03. 2270.0γ shown in the level scheme (1971Ko03) seems to be a misprint.
2289.6 *7*	0.025[#]	2288.96	2$^+$	0.0	0$^+$	[E2]	1.69×10^{-3} *2*	%Iγ≈0.02212 α(K)=0.001070 *15*; α(L)=0.0001662 *23*; α(M)=3.83×10^{-5} *5* α(N)=9.58×10^{-6} *13*; α(O)=1.810×10^{-6} *25*; α(P)=1.381×10^{-7} *19*; α(IPF)=0.000402 *6*
2296.3 *3*	0.038 *5*	2296.29	1$^+$	0.0	0$^+$	M1	2.50×10^{-3} *4*	%Iγ=0.034 *4* α(K)=0.001559 *22*; α(L)=0.0002453 *34*; α(M)=5.66×10^{-5} *8* α(N)=1.419×10^{-5} *20*; α(O)=2.69×10^{-6} *4*; α(P)=2.124×10^{-7} *30*; α(IPF)=0.000621 *9*
2370.0 *3*	0.0021[#] *4*	2370.053	1$^+$	0.0	0$^+$	M1	2.41×10^{-3} *3*	%Iγ=0.00186 *35* α(K)=0.001441 *20*; α(L)=0.0002265 *32*; α(M)=5.23×10^{-5} *7* α(N)=1.311×10^{-5} *18*; α(O)=2.488×10^{-6} *35*; α(P)=1.962×10^{-7} *27*; α(IPF)=0.000671 *9*

[†] From adopted gammas, unless otherwise stated. The electron conversion coefficient values were determined by the evaluator using the conversion electron intensities in 1965Sa02 and the adopted Iγ in the present dataset, and normalized to α(K,367.943γ)=0.0388, unless otherwise stated.
[‡] From 1971Ko03, unless otherwise stated.
[#] From adopted gammas normalized to Iγ for the strongest transition that depopulates the level of interest.
[@] Estimated by the evaluator from the adopted gammas and the feeding intensity to this level.

$^{200}_{80}Hg_{120}$-22

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02 (continued)

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

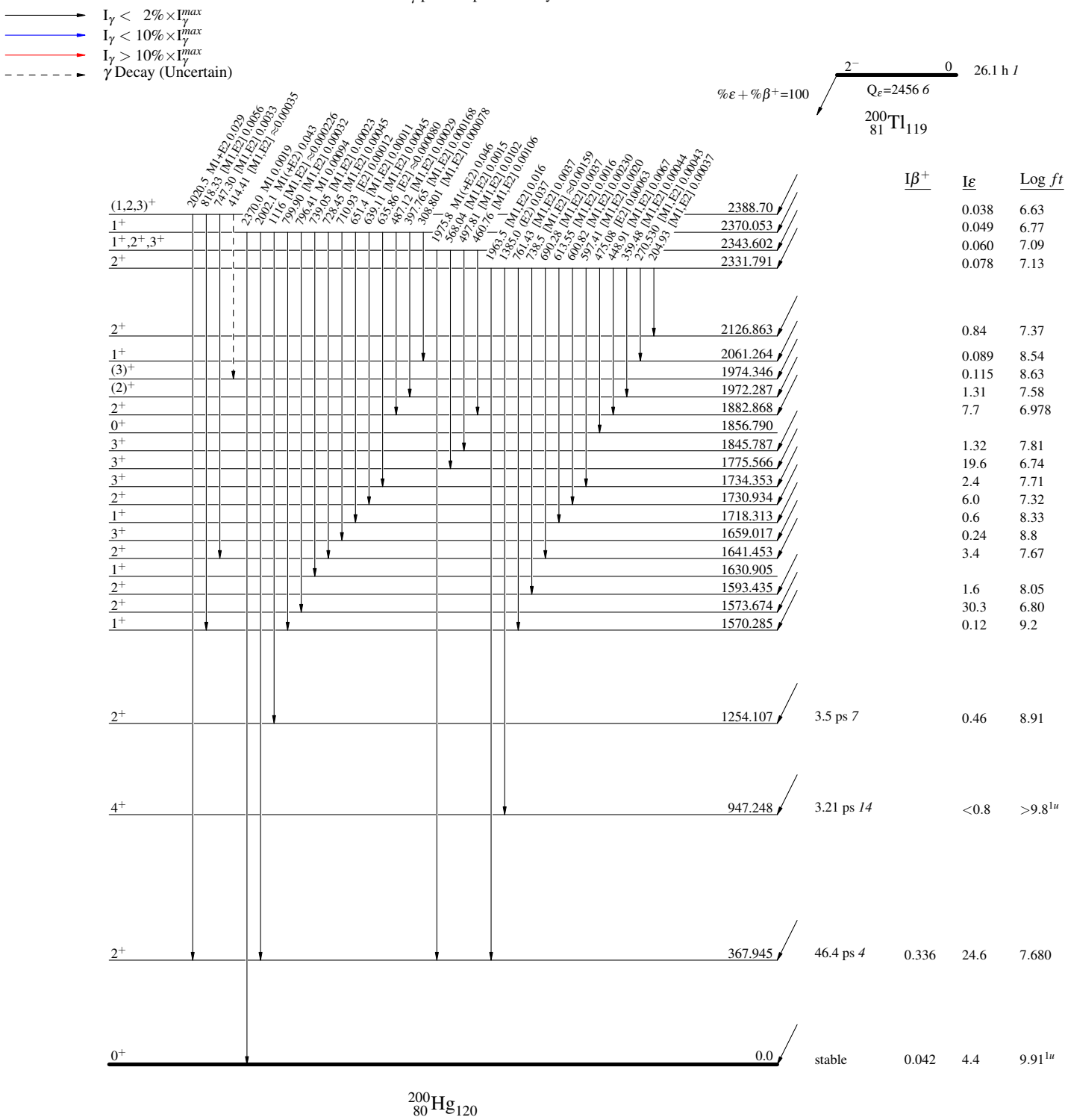
& Additional information 1.
[a] For absolute intensity per 100 decays, multiply by 0.8849 *22*.
[b] Placement of transition in the level scheme is uncertain.
[x] γ ray not placed in level scheme.

$^{200}_{80}Hg_{120}$-23

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02

Decay Scheme

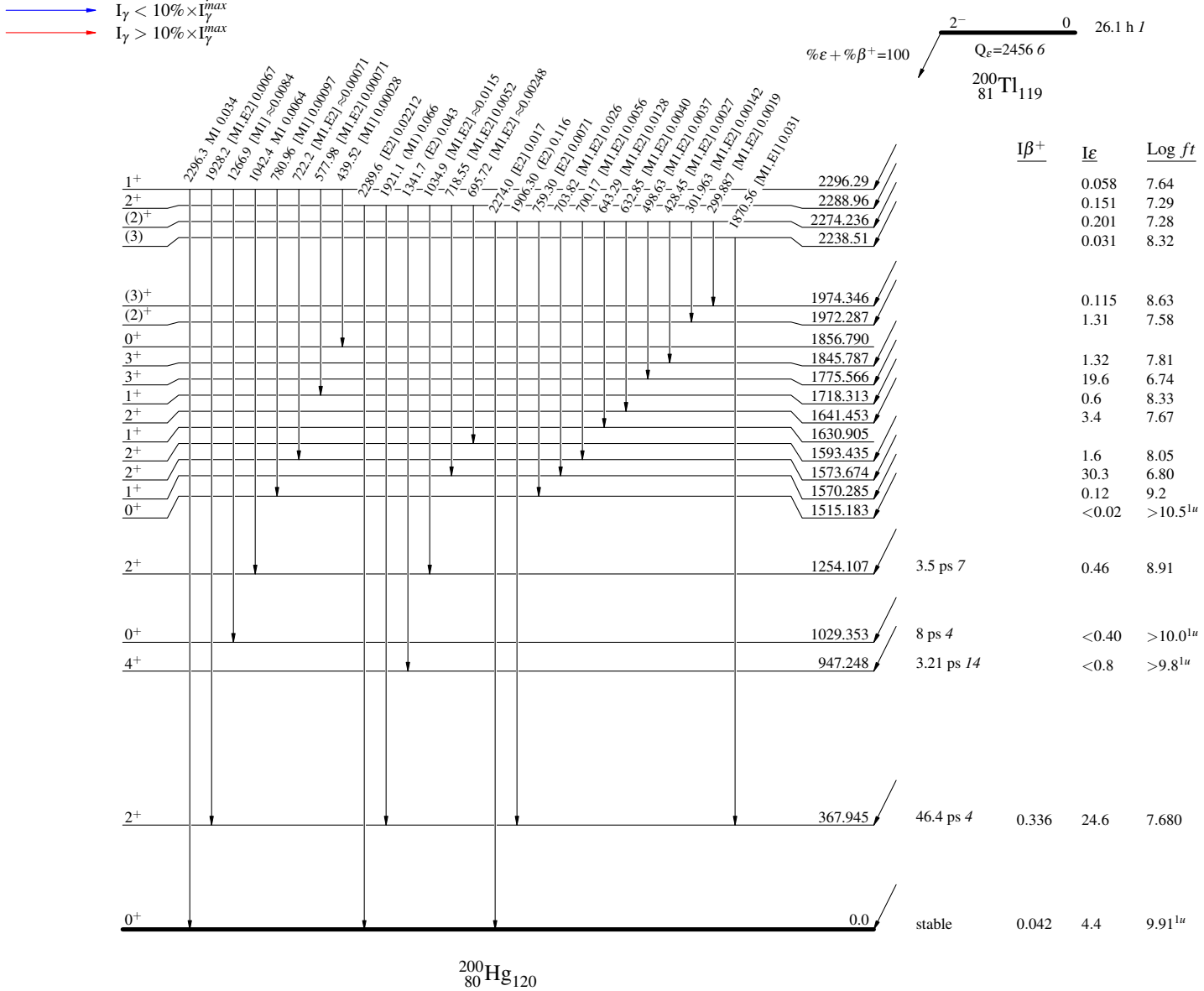
Intensities: I_γ per 100 parent decays



^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02

Decay Scheme (continued)

Intensities: I_γ per 100 parent decays

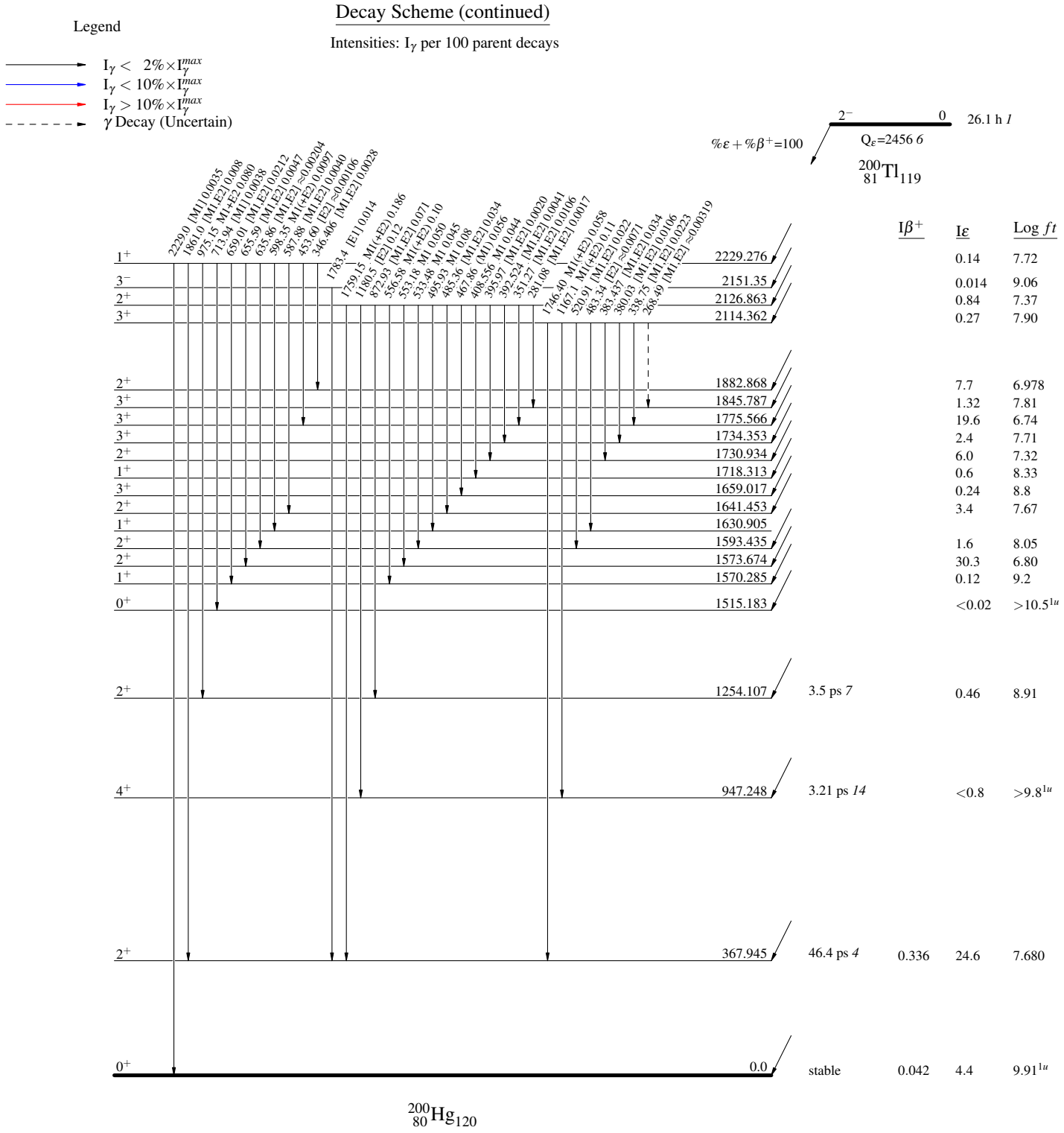


$^{200}_{80}Hg_{120}$

^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02

Decay Scheme (continued)

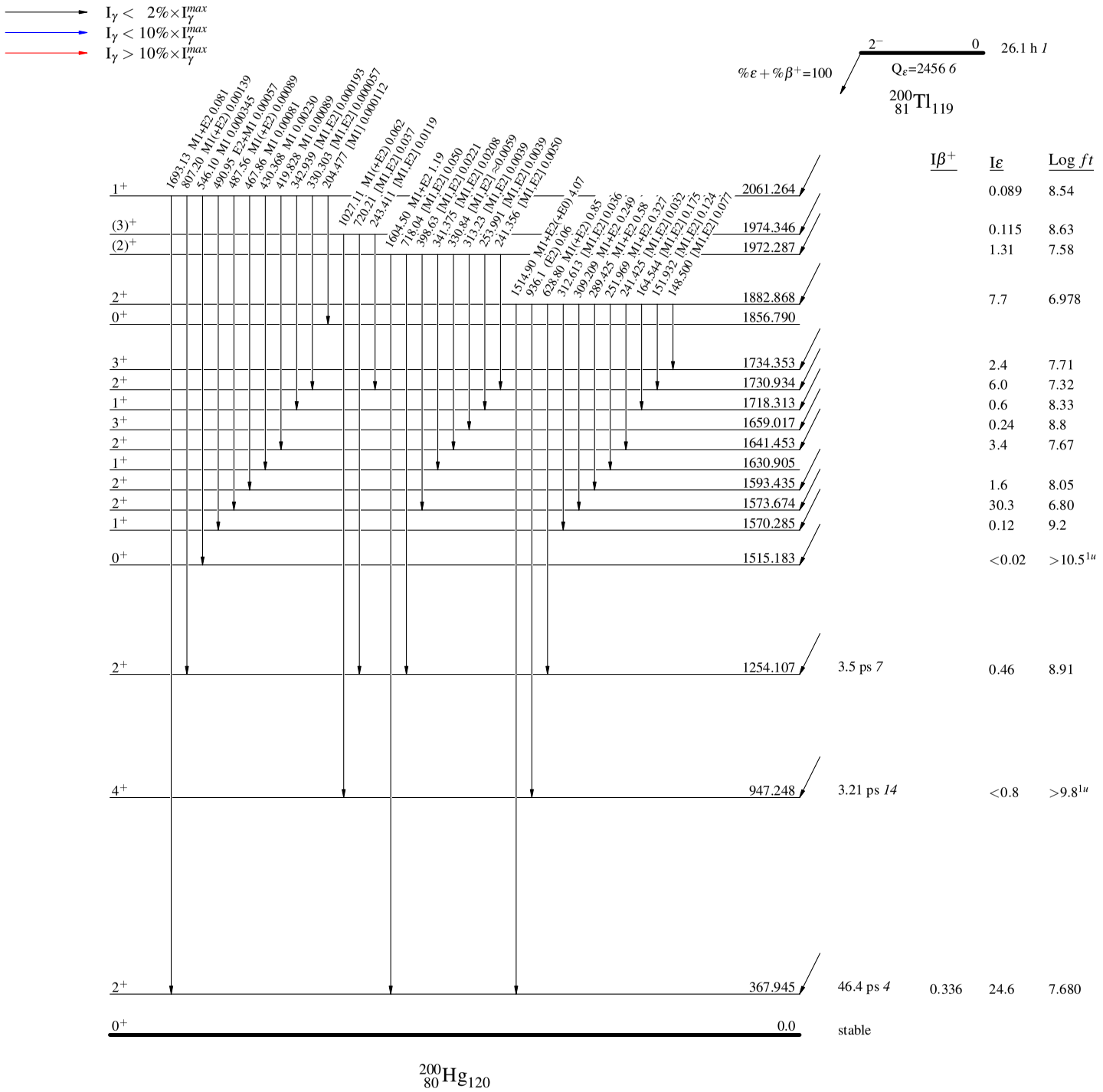
Intensities: I_γ per 100 parent decays



^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02

Decay Scheme (continued)

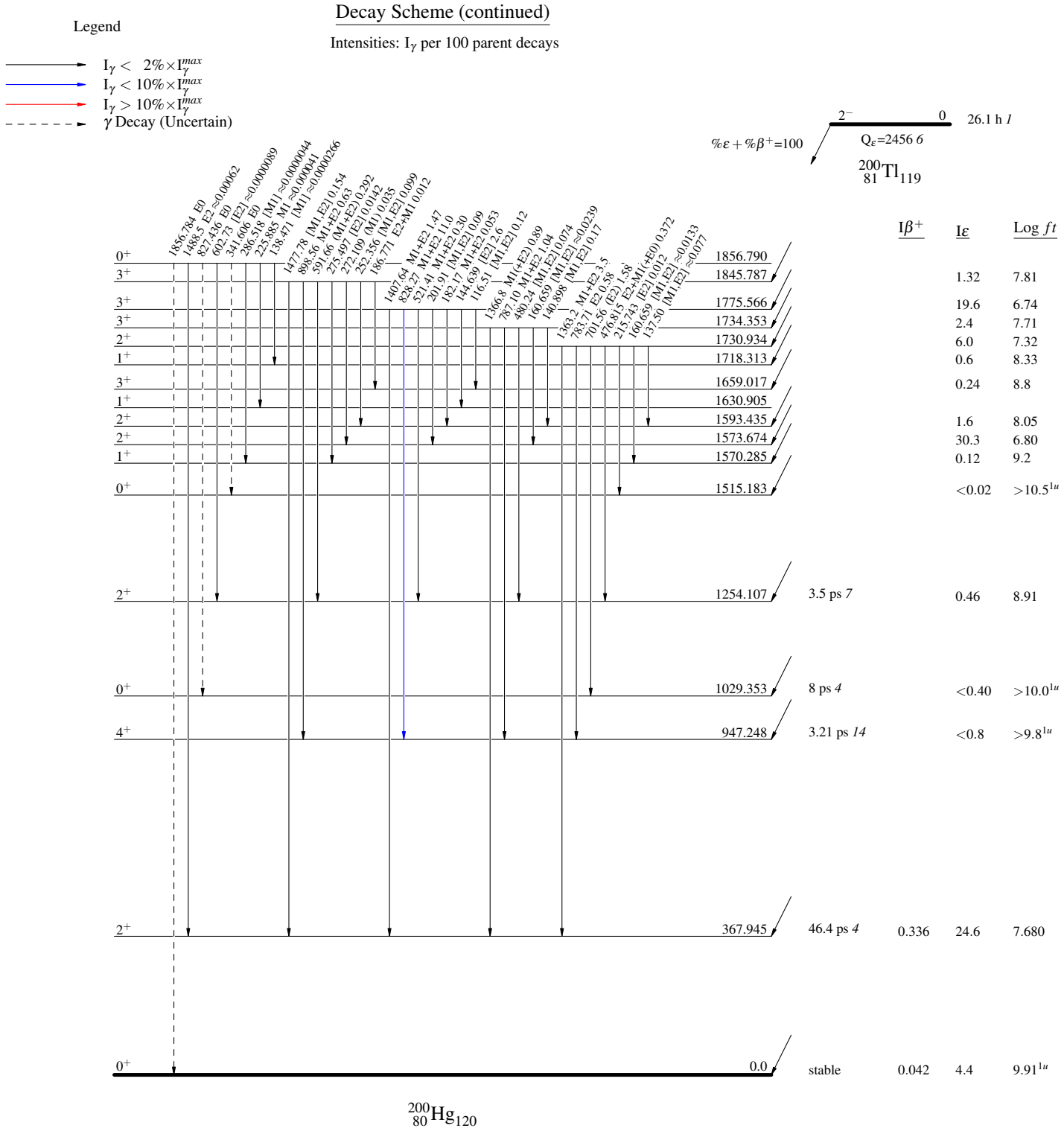
Intensities: I_γ per 100 parent decays



^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02

Decay Scheme (continued)

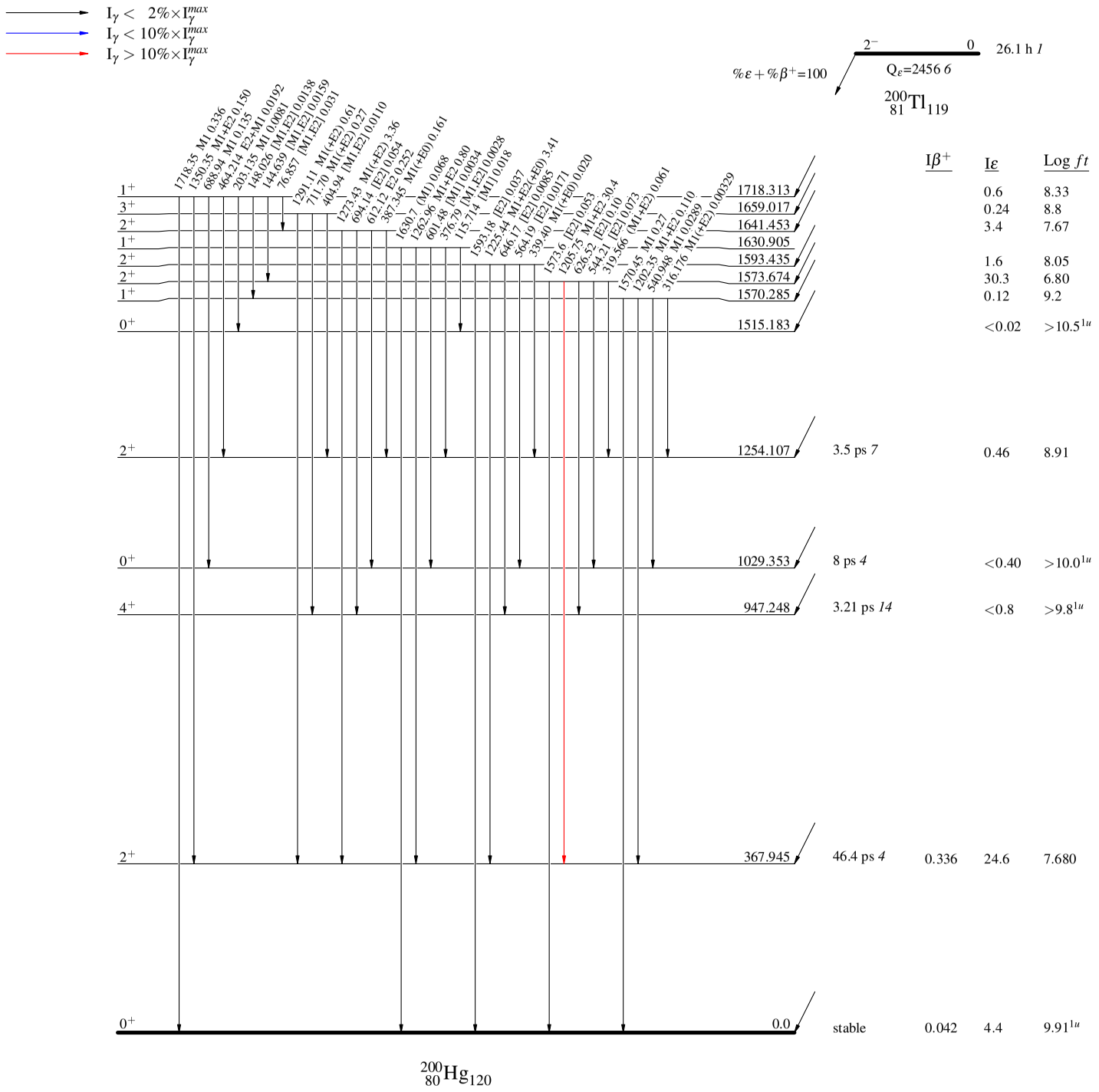
Intensities: I_γ per 100 parent decays



^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02

Decay Scheme (continued)

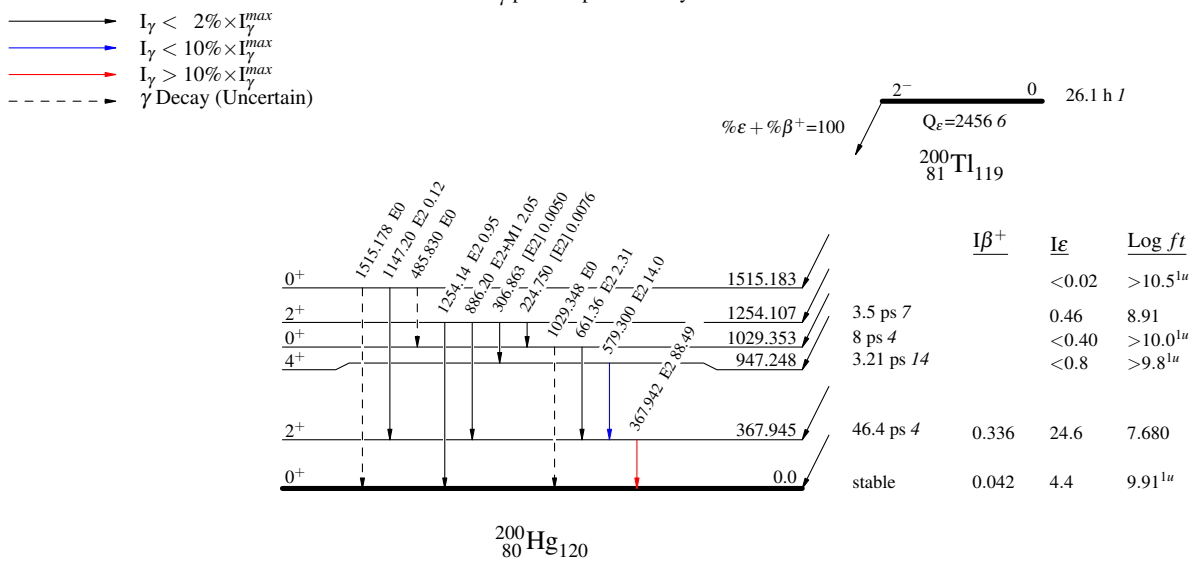
Intensities: I_γ per 100 parent decays



^{200}Tl ε decay 1971Ko03,1971Ha09,1965Sa02

Decay Scheme (continued)

Intensities: I_γ per 100 parent decays



	Iβ⁺	Iε	Log *ft*
		<0.02	>10.5 1u
		0.46	8.91
		<0.40	>10.0 1u
		<0.8	>9.8 1u
	0.336	24.6	7.680
	0.042	4.4	9.91 1u