^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 176, 1 (2021)	1-May-2021

Parent: ^{160}Ho: E=0; J$^{\pi}$=5^{+}; T$_{1/2}$=25.6 min *3*; Q(ε)=3290 *15*; %ε+%β^{+} decay=100.0

Parent: ^{160}Ho: E=59.918 *19*; J$^{\pi}$=2^{-}; T$_{1/2}$=5.02 h *5*; Q(ε)=3290 *15*; %ε+%β^{+} decay=23.8 *20*

^{160}Ho(59.918)-%ε+%β^{+} decay: %IT=76.2 *20*; %ε+%β^{+}=23.8 *20*. Weighted average of %IT values (measured by almost the same group of authors by varied methods): 73.6 *52* (2002Ad34), 73.3 *30* (2003KaZR), 77.9 *20* (2006KaZX) (the smallest measured unc was adopted); Other: 65 *3* (1974Al28).

Additional information 1.

Data set adapted from the XUNDL files entry compiled by J. Choquette, J. Roediger, and B. Singh (McMaster University).

The two Ho activities were studied as an equilibrium mixture in a source of ^{160}Er (T$_{1/2}$=25.6 h). Consequently, the decay scheme represents a combination of those of the two ^{160}Ho isomers.

2009Ad04: measured conversion electron spectra using permanent-magnetic-field β-spectrographs at the Laboratory of Nuclear Problems, JINR. When K-shell electron peaks corroborated with no intensities at the corresponding Eγ's, E0 character was adopted by 2009Ad04, also adopted by evaluator. Main topic of this paper is some evidence for a new 0^{+} level at 681 keV. Some of the K-conversion intensities may be from authors' earlier work 2002Ad34.

2002Ad34: ^{160}Ho (containing both 25.6-min and 5.02-h ^{160}Ho in equilibrium) was obtained from the ε decay of ^{160}Er, produced in the ^{161}Dy(^{3}He,4n) reaction, E(^{3}He)=39 MeV, followed by mass separation. γ rays studied using various HPGe and Ge detectors and a NaI(Tl) anti-Compton detector. Conversion electrons measured using a constant magnetic field β spectrograph from 5-1500 keV and a mini-orange magnetic spectrometer from 500-2800 keV. Measured Eγ, Iγ, $\gamma\gamma$, $\gamma\gamma$(t), ce.

1998Kr21: ^{160}Ho source produced from the decay of mass-separated ^{160}Er. The ^{160}Er was implanted in a Gd host for low-temperature nuclear-orientation studies. Measured $\gamma(\theta$,H,T) at θ=90° and 180° using an HPGe and a coaxial Ge(Li) detector. Report A$_2$ and A$_4$ for ≈30 γ's and deduce δ values for them. 1995KrZY, 1996KrZX, by some of these authors, give some of these δ data.

1998Kr07: the authors of this study are also the first three of those for 1998Kr21. They analyze the nuclear-orientation data (presumably those of 1998Kr21) to take into account the different orientation characteristics of the two ^{160}Ho isomers (having J^{π}=5^{+} and 2^{-}) to deduce what the δ values for several of the γ transitions would have been if only one isomer had been present in the mixed source. NOTE: for the δ values that are negative, the signs of the asymmetric errors shown in this work should be interchanged.

1994SlZZ: Low-temperature nuclear orientation. Measured anisotropies of the γ rays emitted from oriented ^{160}Ho nuclei in equilibrium with ^{160}Er nuclei which had been introduced into a Gd matrix by melting. Anisotropies were measured at θ=0° and 90° over a temperature range from 17 milli-Kelvin to 56 milli-Kelvin. Deduced δ values for several γ transitions.

Related studies by various of the authors of 2002Ad34 presenting specific features of the ^{160}Ho ε decay scheme include the following: δ values for 3 low-energy γ's (2000AdZV); level energies and J^{π} values (2000AdZW, 2001ZvZX); ε+β^{+}, IT branching ratios for the 5.02-h isomer (2003KaZR); a summary of the level energies and J^{π} values (2002ZvZZ); and identification of the lower-spin members of the S, or 'Super' band (2003AdZY).

Others: 2010BoZZ, 2009KaZY, 2008VaZU, 2007AdZY, 2006Bo37, 2006BoZW.

The level scheme is that proposed by 2002Ad34. It is more extensive than that previously adopted, which was based primarily on the work of 1969Gr14 and 1974Al27 and on subsequent analyses of these data by, e.g., 1986GrZP, 1987GrZS, 1987Gr37, 1990Gr16.

Intensities of K x-rays and two low-energy Gammas
(Measurements by 2003KaZR)

Radiation		I ×		Radiation		I ×	
Dy Kα_2	x ray	176	3	Ho Kα_2	x ray	113.5	*20*
Dy Kα_1	x ray	315	5	Ho Kα_1	x ray	195	5
Dy Kβ_1'	x ray	98.3	*16*	Ho Kβ_1'	x ray	59.5	*23*
Dy Kβ_2'	x ray	28.4	*21*	Ho Kβ_2'	x ray	15.4	5
86.788 *13*	(Dy)	85.4	8				
59.918 *19*	(Ho)	0.474	*13*				

× Weighted average of two measurements.

^{160}Dy Levels

According to 2009KaZY in the scheme of ^{160}Ho 5^+ g.s. ε decay there is no sufficent ground for including the majority of high-spin states, except for $7-_1$ and $7-_2$.

E(level)[†]	Jπ[‡]	Comments
0.0[#]	0^+	
86.789[#] *8*	2^+	
283.820[#] *11*	4^+	
581.069[#] *19*	6^+	
681.3? *6*	(0^+)	E(level): level reported in 2009Ad04 from the observation of a K-shell electron line corresponding to transition energy of 681.3 keV.
703.0?	(0^+)	from 2010BoZZ based on their observance of 703.0 transition, presumably E0; by their assignment of 1594.5 transition (previously unplaced) at existing 2297.5, 2^+ level; and by postulating 616.2 transition from this level to the 86.8, 2^+ level (with existing 616.18 γ from 2701.0, 1^- level, this would be a doublet with).
966.174[@] *10*	2^+	
966.75[#] *6*	8^+	
1049.113[@] *11*	3^+	
1155.851[@] *12*	4^+	
1264.767[&] *12*	2^-	
1279.945[b] *24*	0^+	
1285.607[a] *12*	1^-	
1286.721[&] *15*	3^-	
1288.670[@] *15*	5^+	
1349.764[b] *18*	2^+	
1358.693[a] *11*	2^-	
1386.455[&] *18*	4^-	
1398.969[a] *14*	3^-	
1408.47[&] *4*	5^-	
1438.57[@] *3*	6^+	
1456.757[c] *20*	0^+	
1489.503[i] *22*	1^-	
1518.421[c] *15*	2^+	
1522.34[b] *3*	4^+	
1535.155[a] *17*	4^-	
1586.748[a] *23*	5^-	
1594.38[&] *8*	6^-	
1603.79 *5*	4^+	
1606.83 *6*	6^+	
1607.86[c] *6*	4^+	
1613.99[&] *4*	7^-	
1617.28[@] *4*	7^+	
1643.28[i] *4*	3^-	
1650.882 *25*	$4^-,5^-$	Jπ: 2002Ad34 report $J^\pi=5^-$.
1651.95 *22*	$4^+,5,6^+$	Jπ: 2002Ad34 report $J^\pi=(4,5,6)$.
1653.66 *4*		Jπ: 2002Ad34 report $J^\pi=(2,3)$.
1655.00 *4*	$2^+,3^+,4^+$	
1694.368[d] *14*	4^+	
1708.14[g] *4*	0^+	
1720.43[c] *20*	6^+	

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^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21 (continued)

^{160}Dy Levels (continued)

E(level)[†]	J^{π}[‡]	Comments
1756.920 *22*	2^+	
1784.696[e] *23*	4^-	J^{π}: 2002Ad34 report $J^{\pi}=(3,4)^-$.
1787.82[a] *7*	6^-	
1801.16[@] *7*	8^+	J^{π}: possible member of the γ-vibrational band. The level energy agrees with, but the γ decay pattern differs from, that reported by 2002Ju08. The evaluator has adopted the latter values.
1802.233[d] *15*	5^+	
1804.675[f] *15*	1^+	
1860.18[e] *6*	5^-	
1869.518[f] *21*	2^+	
1882.62[&] *11*	8^-	
1901.15[&] *18*	9^-	
1903.210[f] *21*	3^+	
1929.186[d] *21*	6^+	
1952.31[j] *3*	0^+	
2009.535 *20*	$1^-,2^-$	
2012.85[j] *21*	2^+	
2021.95[@] *9*	9^+	
2049.51 *6*	$2^+,3$	J^{π}: 2002Ad34 report $J^{\pi}=(3,4)$.
2068.08 *3*	1^-	
2074.18[d] *11*	7^+	
2077.37 *3*	3^-	Possible $K^{\pi}=3^-$ bandhead.
2084.814 *22*	$(1,2)^+$	
2088.85 *3*	$1^-,2^-,3^-$	J^{π}: 2002Ad34 report $J^{\pi}=(2^-)$.
2090.88 *4*	$2^-,3^-$	
2096.896[h] *16*	4^+	
2112.70[a] *14*	8^-	
2113.69 *10*		J^{π}: 2002Ad34 report $J^{\pi}=(4,5)$.
2126.37 *4*	3^-	
2130.586 *24*	3^-	
2138.21 *3*	2^+	
2140.15 *3*	(3)	J^{π}: mult(1091.1)=(E1) and mult(1856.38)=(E2,M1) give opposite parities.
2141.67 *15*	$2^+,3,4^+$	J^{π}: 2002Ad34 report $J^{\pi}=(3)$.
2143.74 *7*	4^-	
2144.56? *5*		J^{π}: 2002Ad34 report $J^{\pi}=(2^-)$.
2149.84 *13*	1,2	
2155.33 *20*		J^{π}: 2002Ad34 report $J^{\pi}=(4^-)$.
2165.42 *10*		J^{π}: 2002Ad34 report $J^{\pi}=(2,3,4)$.
2187.00 *6*	$4^+,5^+,6^+$	J^{π}: 2002Ad34 report $J^{\pi}=(5,6)$.
2191.03 *7*		J^{π}: 2002Ad34 report $J^{\pi}=(3^-)$.
2194.44[h] *3*	5^+	
2200.82 *4*	$2^+,3,4^+$	J^{π}: shown as (3,4) by 2002Ad34.
2208.42[f] *7*	4^+	J^{π}: shown as $(2,3,4)^+$ in table 1 of 2002Ad34, but as 4^+ in their table 2.
2208.79 *6*	$(2)^-$	J^{π}: 2002Ad34 report $J^{\pi}=(2^-)$.
2230.52 *8*	2^+	J^{π}: 2002Ad34 report $J^{\pi}=(2)$.
2244.94 *4*	$2^+,3,4^+$	J^{π}: 2002Ad34 report $J^{\pi}=3^+$.
2255.67 *6*	$1^+,2^+$	J^{π}: 2002Ad34 report $J^{\pi}=(1,2^+)$.
2266.98 *4*	3^-	
2271.253 *24*	2^-	
2279.05 *10*		J^{π}: 2002Ad34 report $J^{\pi}=(3^-)$.
2297.49 *4*	2^+	
2309.91 *11*	$2^+,3,4^+$	J^{π}: 2002Ad34 report $J^{\pi}=(3,4)$.
2323.09 *3*	$1^+,2^+$	

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^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21 (continued)

^{160}Dy Levels (continued)

E(level)[†]	J$^\pi$[‡]	Comments
2325.24 *9*	1$^+$,2$^+$	
2327.70 *5*	2$^+$	
2354.631 *18*	2$^+$	
2367.47 *3*	2$^+$,3$^+$,4$^+$	J$^\pi$: 2002Ad34 report J^π=3$^+$.
2372.31 *3*	6$^-$	
2374.50 *5*		J$^\pi$: 2002Ad34 report J^π=(4$^-$).
2383.70 *3*	6$^-$	
2386.90 *3*	2$^+$,3$^+$	J$^\pi$: 2002Ad34 report J^π=(3)$^+$.
2393.55 *6*	2,3$^-$	J$^\pi$: 2002Ad34 report J^π=(2,3).
2396.92 *21*	1,2	
2450.26 *5*	1$^-$	
2469.51 *3*	3$^-$	
2474.97 *10*	2$^+$,3,4$^+$	J$^\pi$: 2002Ad34 report J^π=(3).
2503.80 *9*	1$^+$,2$^+$	J$^\pi$: 2002Ad34 report J^π=2$^+$.
2553.5 *3*		J$^\pi$: 2002Ad34 report J^π=(3$^-$).
2556.73 *6*	3$^-$,4$^-$,5$^-$	
2560.02 *9*	2$^+$,3,4$^+$	J$^\pi$: 2002Ad34 report J^π=(3,4)$^+$.
2572.4 *3*	3$^+$,4$^+$,5$^+$	J$^\pi$: 2002Ad34 report J^π=(4).
2574.38 *20*	1$^-$,2$^-$,3$^-$	
2602.67 *4*	1$^-$,2$^-$	J$^\pi$: 2002Ad34 report J^π=(1,2)$^-$.
2605.76 *8*	2$^+$,3$^+$,4$^+$	
2610.01 *10*	2$^+$	
2630.24 *5*	(1,2)$^+$	
2630.714 *13*	1$^-$	
2634.74 *11*		J$^\pi$: 2002Ad34 report J^π=(1,2,3)$^+$.
2645.88 *22*	3$^-$	
2647.31 *24*	(3)$^-$	J$^\pi$: 2002Ad34 report J^π=(3,4)$^-$.
2661.522 *15*	2$^-$	
2665.78 *5*	2$^+$,3$^+$,4$^+$	J$^\pi$: 2002Ad34 report J^π=(3,4)$^+$.
2674.720 *21*	1$^-$	
2681.828[f] *25*	5$^+$	
2696.43 *3*	2$^-$,3$^-$	J$^\pi$: 2002Ad34 report J^π=(2,3)$^-$.
2697.826 *19*	2$^+$	
2701.048[k] *16*	1$^-$	
2704.230 *20*	2$^-$,3$^-$	
2717.229 *22*	2$^+$	
2719.02 *5*	2$^-$	
2720.58[k] *4*	3$^-$	
2727.20 *10*	(4)	
2729.84 *3*	2$^-$	
2734.720 *25*	1$^-$	
2755.04 *20*		
2756.3 *3*		
2757.13 *9*		J$^\pi$: 2002Ad34 report J^π=(4,5).
2760.47 *7*	1$^+$,2$^+$	J$^\pi$: 2002Ad34 report J^π=(1,2).
2763.05 *5*		J$^\pi$: 2002Ad34 report J^π=(3,4,5,6).
2767.70 *5*	1$^-$	
2772.10 *20*		J$^\pi$: 2002Ad34 report J^π=(3,4,5,6).
2777.62 *4*	2$^+$,3$^+$,4$^+$	J$^\pi$: 2002Ad34 report J^π=(4)$^+$.
2822.23 *20*	1$^+$	
2833.85 *17*	2,3,4	
2851.73 *3*	1$^-$	
2853.68 *12*		J$^\pi$: 2002Ad34 report J^π=5$^-$.
2858.17 *11*		J$^\pi$: 2002Ad34 report J^π=3$^-$.
2861.17 *3*	1$^+$	

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^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21 (continued)

^{160}Dy Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	Comments
2877.114 *23*	1^{-}	
2879.47 *10*	2	
2885.59 *5*		J$^{\pi}$: 2002Ad34 report J^{π}=(2,3)$^{-}$ for this level.
2896.28 *4*	2^{+}	
2904.36 *8*	2,3,4	
2931.75 *6*		J$^{\pi}$: 2002Ad34 report J^{π}=(4^{-}).
2941.95 *8*	4,5,6	
2958.55 *5*		J$^{\pi}$: 2002Ad34 report J^{π}=3^{-}.
2969.04 *17*	1,2	
2969.90 *7*		J$^{\pi}$: 2002Ad34 report J^{π}=(4,5).
2977.54 *6*		J$^{\pi}$: 2002Ad34 report J^{π}=(4,5).
2994.69 *8*	2,3,4	
3004.34 *10*	1,2	
3024.52 *17*	1,2	
3033.7 *3*		J$^{\pi}$: 2002Ad34 report J^{π}=(4,5)$^{-}$.
3060.45 *14*		J$^{\pi}$: 2002Ad34 report J^{π}=(3,4,5,6).
3061.83 *5*	1^{+}	J$^{\pi}$: E1 γ to 2^{-} indicates π=+. Excitation in (γ,γ') indicates J^{π}=1^{+}, as does (M1) for the 3061 γ. However, 1775 γ to 3^{-} may disfavor 1^{+}. 2002Ad34 report J^{π}=(1,2^{+}).
3081.4 *4*	(4,5,6)	
3098.98[f] *9*	6^{+}	According to 2009KaZY there is no coin in between 1036.2γ and 404.7γ, and 1036.2γ and 1481.9γ, by which they question the existence of 3099 level, decayed by 1481.9γ. While 1481.9γ is the most intense one decaying the level no comments are done about the other six transitions that are decaying the level. J$^{\pi}$: in their table 1, 2002Ad34 show J^{π}=7^{-} for this level, but elsewhere J^{π}=6^{+} is shown. 7^{-} is probably a misprint.

[†] From a least-squares fit to the Eγ values.

[‡] From the adopted values, unless noted otherwise. In many instances, the values listed by 2002Ad34 are shown in parentheses. In some of these, the evaluator has not included these here.

[#] Band(A): ground-state band.

[@] Band(B): γ-vibrational band.

[&] Band(C): K$^{\pi}$=2^{-} octupole-vibrational band. The dominant two-quasiparticle component in this band has configuration=(π 7/2[523] − π 3/2[411]).

[a] Band(D): K$^{\pi}$=1^{-} octupole-vibrational band. The two-quasiparticle state with configuration=(ν 5/2[642] − ν 3/2[521]) is the major component in the makeup of this band.

[b] Band(E): first excited K$^{\pi}$=0^{+} band.

[c] Band(F): S, or ‘Super’, band. (second excited K$^{\pi}$=0^{+} band).

[d] Band(G): K$^{\pi}$=4^{+} band. Configuration=(ν 5/2[523] + ν 3/2[521]).

[e] Band(H): K$^{\pi}$=4^{-} band. Configuration=(ν 5/2[642] + ν 3/2[521]).

[f] Band(I): K$^{\pi}$=1^{+} band. Configuration=(ν 5/2[523] − ν 3/2[521]). 2009KaZY question the assignment of the following levels to this band: 2208, 4^{+}; 2682, 5^{+}, 3099, 6^{+}.

[g] Band(J): third excited K$^{\pi}$=0^{+} band.

[h] Band(K): second excited K$^{\pi}$=4^{+} band.

[i] Band(L): possible K$^{\pi}$=0^{-} octupole-vibrational band.

[j] Band(M): fourth excited K$^{\pi}$=0^{+} band.

[k] Band(N): proposed (1987Gr37) two-phonon quadrupole (β^{-})-octupole band.

^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21 (continued)

ε,β^+ radiations

Computed by the evaluator from the γ+ce intensity balance at each level. Where the uncertainty in the deduced values overlaps zero, no value is shown. No log *ft* values should be deduced from these data, since the $\varepsilon+\beta^+$ feedings from each isomer are not available. NOTE: the evaluator has prepared a separate, but not necessarily complete, data set for the decay of the 25.6-min ^{160}Ho g.s. in order to highlight the properties of the allowed-unhindered (au) $\varepsilon+\beta^+$ transition to the members of the $K^\pi=4^+$ band in ^{160}Dy, which gives definitive information on the configurations of both the initial and final states involved. See 1996Re22 for that data set (which is based on the earlier data of 1969Gr14 and 1974Al27).

E(decay)	E(level)	Comments
(191 *15*)	3098.98	I($\varepsilon+\beta^+$): 0.110 *10*.
(209 *15*)	3081.4	I($\varepsilon+\beta^+$): 0.0018 *5*.
(228 *15*)	3061.83	I($\varepsilon+\beta^+$): 0.063 *6*.
(230 *15*)	3060.45	I($\varepsilon+\beta^+$): 0.033 *4*.
(256 *15*)	3033.7	I($\varepsilon+\beta^+$): 0.0023 *7*.
(265 *15*)	3024.52	I($\varepsilon+\beta^+$): 0.0038 *3*.
(286 *15*)	3004.34	I($\varepsilon+\beta^+$): 0.00105 *23*.
(295 *15*)	2994.69	I($\varepsilon+\beta^+$): 0.0287 *25*.
(312 *15*)	2977.54	I($\varepsilon+\beta^+$): 0.015 *4*.
(320 *15*)	2969.90	I($\varepsilon+\beta^+$): 0.047 *11*.
(321 *15*)	2969.04	I($\varepsilon+\beta^+$): 0.008 *3*.
(331 *15*)	2958.55	I($\varepsilon+\beta^+$): 0.081 *8*.
(348 *15*)	2941.95	I($\varepsilon+\beta^+$): 0.0171 *9*.
(358 *15*)	2931.75	I($\varepsilon+\beta^+$): 0.048 *5*.
(386 *15*)	2904.36	I($\varepsilon+\beta^+$): 0.0217 *22*.
(394 *15*)	2896.28	I($\varepsilon+\beta^+$): 0.221 *14*.
(404 *15*)	2885.59	I($\varepsilon+\beta^+$): 0.065 *8*.
(411 *15*)	2879.47	I($\varepsilon+\beta^+$): 0.060 *8*.
(413 *15*)	2877.114	I($\varepsilon+\beta^+$): 0.057 *11*.
(429 *15*)	2861.17	I($\varepsilon+\beta^+$): 0.119 *8*.
(432 *15*)	2858.17	I($\varepsilon+\beta^+$): 0.036 *9*.
(436 *15*)	2853.68	I($\varepsilon+\beta^+$): 0.040 *3*.
(438 *15*)	2851.73	I($\varepsilon+\beta^+$): 0.381 *25*.
(456 *15*)	2833.85	I($\varepsilon+\beta^+$): 0.023 *5*.
(468 *15*)	2822.23	I($\varepsilon+\beta^+$): 0.0035 *7*.
(512 *15*)	2777.62	I($\varepsilon+\beta^+$): 0.213 *9*.
(518 *15*)	2772.10	I($\varepsilon+\beta^+$): 0.119 *23*.
(522 *15*)	2767.70	I($\varepsilon+\beta^+$): 0.227 *24*.
(527 *15*)	2763.05	I($\varepsilon+\beta^+$): 0.050 *6*.
(530 *15*)	2760.47	I($\varepsilon+\beta^+$): 0.145 *20*.
(533 *15*)	2757.13	I($\varepsilon+\beta^+$): 0.029 *5*.
(534 *15*)	2756.3	I($\varepsilon+\beta^+$): 0.0277 *24*.
(535 *15*)	2755.04	I($\varepsilon+\beta^+$): 0.0198 *25*.
(555 *15*)	2734.720	I($\varepsilon+\beta^+$): 0.89 *5*.
(560 *15*)	2729.84	I($\varepsilon+\beta^+$): 0.53 *4*.
(563 *15*)	2727.20	I($\varepsilon+\beta^+$): 0.024 *3*.
(569 *15*)	2720.58	I($\varepsilon+\beta^+$): 0.246 *17*.
(571 *15*)	2719.02	I($\varepsilon+\beta^+$): 1.00 *8*.
(573 *15*)	2717.229	I($\varepsilon+\beta^+$): 0.52 *5*.
(586 *15*)	2704.230	I($\varepsilon+\beta^+$): 0.95 *5*.
(589 *15*)	2701.048	I($\varepsilon+\beta^+$): 2.04 *6*.
(592 *15*)	2697.826	I($\varepsilon+\beta^+$): 0.84 *4*.
(594 *15*)	2696.43	I($\varepsilon+\beta^+$): 0.40 *5*.
(608 *15*)	2681.828	I($\varepsilon+\beta^+$): 0.56 *6*.
(615 *15*)	2674.720	I($\varepsilon+\beta^+$): 2.03 *8*.
(624 *15*)	2665.78	I($\varepsilon+\beta^+$): 0.101 *8*.

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^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21 (continued)

ϵ,β^+ radiations (continued)

E(decay)	E(level)	Comments
(628 *15*)	2661.522	I($\varepsilon+\beta^+$): 2.54 *12*.
(643 *15*)	2647.31	I($\varepsilon+\beta^+$): 0.127 *17*.
(644 *15*)	2645.88	I($\varepsilon+\beta^+$): 0.156 *21*.
(655 *15*)	2634.74	I($\varepsilon+\beta^+$): 0.095 *10*.
(659 *15*)	2630.714	I($\varepsilon+\beta^+$): 5.11 *16*.
(660 *15*)	2630.24	I($\varepsilon+\beta^+$): 0.061 *8*.
(680 *15*)	2610.01	I($\varepsilon+\beta^+$): 0.063 *7*.
(684 *15*)	2605.76	I($\varepsilon+\beta^+$): 0.024 *3*.
(687 *15*)	2602.67	I($\varepsilon+\beta^+$): 0.119 *13*.
(716 *15*)	2574.38	I($\varepsilon+\beta^+$): 0.082 *9*.
(718 *15*)	2572.4	I($\varepsilon+\beta^+$): 0.0234 *20*.
(733 *15*)	2556.73	I($\varepsilon+\beta^+$): 0.106 *9*.
(737 *15*)	2553.5	I($\varepsilon+\beta^+$): 0.016 *8*.
(786 *15*)	2503.80	I($\varepsilon+\beta^+$): 0.013 *4*.
(815 *15*)	2474.97	I($\varepsilon+\beta^+$): 0.024 *3*.
(820 *15*)	2469.51	I($\varepsilon+\beta^+$): 0.185 *11*.
(840 *15*)	2450.26	I($\varepsilon+\beta^+$): 0.093 *19*.
(893 *15*)	2396.92	I($\varepsilon+\beta^+$): 0.0074 *13*.
(896 *15*)	2393.55	I($\varepsilon+\beta^+$): 0.161 *17*.
(903 *15*)	2386.90	I($\varepsilon+\beta^+$): 0.229 *14*.
(916 *15*)	2374.50	I($\varepsilon+\beta^+$): 0.026 *4*.
(923 *15*)	2367.47	I($\varepsilon+\beta^+$): 0.35 *6*.
(935 *15*)	2354.631	I($\varepsilon+\beta^+$): 0.41 *3*.
(962 *15*)	2327.70	I($\varepsilon+\beta^+$): 0.051 *7*.
(965 *15*)	2325.24	I($\varepsilon+\beta^+$): 0.0174 *25*.
(967 *15*)	2323.09	I($\varepsilon+\beta^+$): 0.257 *12*.
(980 *15*)	2309.91	I($\varepsilon+\beta^+$): 0.125 *18*.
(993 *15*)	2297.49	I($\varepsilon+\beta^+$): 0.179 *18*.
(1011 *15*)	2279.05	I($\varepsilon+\beta^+$): 0.0135 *15*.
(1019 *15*)	2271.253	I($\varepsilon+\beta^+$): 0.62 *3*.
(1023 *15*)	2266.98	I($\varepsilon+\beta^+$): 0.195 *10*.
(1034 *15*)	2255.67	I($\varepsilon+\beta^+$): 0.048 *7*.
(1059 *15*)	2230.52	I($\varepsilon+\beta^+$): 0.046 *4*.
(1082 *15*)	2208.42	I($\varepsilon+\beta^+$): 0.148 *14*.
(1089 *15*)	2200.82	I($\varepsilon+\beta^+$): 0.049 *5*.
(1096 *15*)	2194.44	I($\varepsilon+\beta^+$): 0.318 *14*.
(1099 *15*)	2191.03	I($\varepsilon+\beta^+$): 0.0095 *10*.
(1103 *15*)	2187.00	I($\varepsilon+\beta^+$): 0.065 *9*.
(1125 *15*)	2165.42	I($\varepsilon+\beta^+$): 0.016 *8*.
(1135 *15*)	2155.33	I($\varepsilon+\beta^+$): 0.0254 *14*.
(1140 *15*)	2149.84	I($\varepsilon+\beta^+$): 0.024 *9*.
(1146 *15*)	2143.74	I($\varepsilon+\beta^+$): 0.093 *11*.
(1148 *15*)	2141.67	I($\varepsilon+\beta^+$): 0.024 *3*.
(1150 *15*)	2140.15	I($\varepsilon+\beta^+$): 0.139 *19*.
(1152 *15*)	2138.21	I($\varepsilon+\beta^+$): 0.029 *15*.
(1159 *15*)	2130.586	I($\varepsilon+\beta^+$): 0.363 *22*.
(1164 *15*)	2126.37	I($\varepsilon+\beta^+$): 0.080 *15*.
(1177 *15*)	2112.70	I($\varepsilon+\beta^+$): 0.047 *10*.
(1193 *15*)	2096.896	I($\varepsilon+\beta^+$): 2.13 *7*.
(1199 *15*)	2090.88	I($\varepsilon+\beta^+$): 0.040 *10*.
(1201 *15*)	2088.85	I($\varepsilon+\beta^+$): 0.018 *9*.
(1213 *15*)	2077.37	I($\varepsilon+\beta^+$): 0.099 *17*.
(1216 *15*)	2074.18	I($\varepsilon+\beta^+$): 0.021 *6*.
(1222 *15*)	2068.08	I($\varepsilon+\beta^+$): 0.276 *23*.
(1280 *15*)	2009.535	I($\varepsilon+\beta^+$): 0.018 *12*.
(1361 *15*)	1929.186	I($\varepsilon+\beta^+$): 0.45 *4*.

Continued on next page (footnotes at end of table)

^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21 (continued)

ϵ,β^+ radiations (continued)

E(decay)	E(level)	Comments
(1420 *15*)	1869.518	I($\varepsilon+\beta^+$): 0.16 *4*.
(1430 *15*)	1860.18	I($\varepsilon+\beta^+$): 0.082 *6*.
(1485 *15*)	1804.675	I($\varepsilon+\beta^+$): 0.10 *10*.
(1488 *15*)	1802.233	I($\varepsilon+\beta^+$): 7.9 *5*.
(1505 *15*)	1784.696	I($\varepsilon+\beta^+$): 0.151 *11*.
(1533 *15*)	1756.920	I($\varepsilon+\beta^+$): 0.07 *5*.
(1596 *15*)	1694.368	I($\varepsilon+\beta^+$): 54.4 *13*.
(1635 *15*)	1655.00	I($\varepsilon+\beta^+$): 0.083 *17*.
(1636 *15*)	1653.66	I($\varepsilon+\beta^+$): 0.030 *17*.
(1638 *15*)	1651.95	I($\varepsilon+\beta^+$): 0.118 *17*.
(1639 *15*)	1650.882	I($\varepsilon+\beta^+$): 0.014 *10*.
(1647 *15*)	1643.28	I($\varepsilon+\beta^+$): 0.144 *19*.
(1682 *15*)	1607.86	I($\varepsilon+\beta^+$): 0.047 *10*.
(1683 *15*)	1606.83	I($\varepsilon+\beta^+$): 0.075 *8*.
(1686 *15*)	1603.79	I($\varepsilon+\beta^+$): 0.055 *15*.
(1703 *15*)	1586.748	I($\varepsilon+\beta^+$): 0.063 *22*.
(1755 *15*)	1535.155	I($\varepsilon+\beta^+$): 0.075 *11*.
(1768 *15*)	1522.34	I($\varepsilon+\beta^+$): 0.032 *12*.
(1800 *15*)	1489.503	I($\varepsilon+\beta^+$): 0.11 *6*.
(1851 *15*)	1438.57	I($\varepsilon+\beta^+$): 0.17 *9*.
(1891 *15*)	1398.969	I($\varepsilon+\beta^+$): 0.38 *7*.
(1904 *15*)	1386.455	I($\varepsilon+\beta^+$): 0.186 *18*.
(1931 *15*)	1358.693	I($\varepsilon+\beta^+$): 1.17 *14*.
(2003 *15*)	1286.721	I($\varepsilon+\beta^+$): 0.31 *7*.
(2004 *15*)	1285.607	I($\varepsilon+\beta^+$): 1.10 *8*.
(3203† *15*)	86.789	I($\varepsilon+\beta^+$): 4.2 *15*.

† Existence of this branch is questionable.

γ(^{160}Dy)

Iγ normalization, I(γ+ce) normalization: 0.161 *3* from 2002Ad34 deduced by requiring that the sum of the γ and ce feeding to the ^{160}Dy g.s. equals 100%. Unplaced intensity amounts to ≈0.9%. Since the ε+β^+ feedings from each isomer are not available, no proper normalization is available for each decay separately which maked this “cumulative normalization” entirely illustative.

The conversion-electron data are from 2002Ad34. The listed intensities (in comments) are assumed to be for the K-shell and have the same normalization as the relative intensity values. For doublets, the total K-shell intensity for the doublet is listed.

E_γ [†‡]	I_γ [†#]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	δ [&c]	α [b]	$I_{(\gamma+ce)}$ [†]	Comments
69.82 *5*	0.018 *9*	1349.764	2^+	1279.945	0^+	[E2]		10.85	0.21 *11*	ce(K)/(γ+ce)=0.195 *4*; ce(L)/(γ+ce)=0.554 *7*; ce(M)/(γ+ce)=0.1332 *24* ce(N)/(γ+ce)=0.0298 *6*; ce(O)/(γ+ce)=0.00353 *7*; ce(P)/(γ+ce)=8.81×10^{-6} *17* α(K)=2.31 *4*; α(L)=6.57 *10*; α(M)=1.579 *23* α(N)=0.353 *5*; α(O)=0.0418 *6*; α(P)=0.0001044 *15* I_γ: computed from I(γ+ce) and α. 2002Ad34 report Iγ<0.01. I(ce(K))=0.04 *2*.
71.96 *6*	0.035 *18*	1358.693	2^-	1286.721	3^-	(M1)		6.18	0.25 *13*	ce(K)/(γ+ce)=0.724 *6*; ce(L)/(γ+ce)=0.1072 *19*; ce(M)/(γ+ce)=0.0236 *5* ce(N)/(γ+ce)=0.00545 *11*; ce(O)/(γ+ce)=0.000796 *15*; ce(P)/(γ+ce)=4.53×10^{-5} *9* α(K)=5.20 *8*; α(L)=0.770 *11*; α(M)=0.1692 *24* α(N)=0.0391 *6*; α(O)=0.00572 *9*; α(P)=0.000325 *5* I_γ: computed from I(γ+ce) and α. 2002Ad34 report Iγ<0.01. I(ce(K))=0.05 *2*.
73.00 *6*	<0.03	1358.693	2^-	1285.607	1^-	(E2)		9.08		α(K)=2.17 *3*; α(L)=5.31 *8*; α(M)=1.277 *19* α(N)=0.286 *5*; α(O)=0.0339 *5*; α(P)=9.51×10^{-5} *14* I(ce(K))=0.06 *3*.
82.96 *5*	<0.02	1049.113	3^+	966.174	2^+	M1+E2	0.65 [a]	4.52		α(K)=2.94 *5*; α(L)=1.222 *18*; α(M)=0.286 *4* α(N)=0.0646 *10*; α(O)=0.00819 *12*; α(P)=0.0001728 *25* I(ce(K))=0.03 *1*.
85.5 *1*	<0.02	1607.86	4^+	1522.34	4^+	(E2)		4.90		α(K)=1.616 *23*; α(L)=2.53 *4*; α(M)=0.606 *10* α(N)=0.1358 *21*; α(O)=0.01620 *25*; α(P)=6.72×10^{-5} *10* I(ce(K))=0.04 *2*.
86.788 *9*	85.4 *8*	86.789	2^+	0.0	0^+	E2		4.63		α(K)=1.565 *22*; α(L)=2.35 *4*; α(M)=0.565 *8* α(N)=0.1266 *18*; α(O)=0.01511 *22*; α(P)=6.50×10^{-5} *9* E_γ,I_γ: from 2003KaZR. 2002Ad34 report Eγ=86.79 *2* and Iγ=80.8 *30*. I(ce(K))=12.8 *12*.
90.33 *2*	1.02 *2*	1784.696	4^-	1694.368	4^+	E1		0.405		α(K)=0.337 *5*; α(L)=0.0531 *8*; α(M)=0.01165 *17* α(N)=0.00264 *4*; α(O)=0.000358 *5*; α(P)=1.532×10^{-5} *22* I(ce(K))=0.34 *4*.
90.8 *2*	0.10 *3*	2112.70	8^-	2021.95	9^+	[E1]		0.399		α(K)=0.332 *5*; α(L)=0.0524 *8*; α(M)=0.01149 *18*

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	δ [&c]	α [b]	$I_{(\gamma+ce)}$ [†]	Comments
										α(N)=0.00260 *4*; α(O)=0.000353 *6*; α(P)=1.512×10^{-5} *23* Iγ: other: < 0.015 (2009KaZY).
93.84 *7*	0.113 *23*	1358.693	2$^-$	1264.767	2$^-$	E2		3.44		α(K)=1.310 *19*; α(L)=1.638 *24*; α(M)=0.393 *6* α(N)=0.0880 *13*; α(O)=0.01055 *16*; α(P)=5.42×10^{-5} *8* I(ce(K))=0.15 *3*.
99.8 *3*	0.072 *6*	1386.455	4$^-$	1286.721	3$^-$	(E2)		2.73 *5*		α(K)=1.128 *18*; α(L)=1.234 *25*; α(M)=0.295 *6* α(N)=0.0663 *13*; α(O)=0.00796 *16*; α(P)=4.67×10^{-5} *8* Iγ: other: < 0.01 (2009KaZY). I(ce(K))=0.10 *2*.
106.86 *2*	0.010 *5*	1155.851	4$^+$	1049.113	3$^+$	(M1)		1.98		α(K)=1.667 *24*; α(L)=0.245 *4*; α(M)=0.0538 *8* α(N)=0.01245 *18*; α(O)=0.00182 *3*; α(P)=0.0001039 *15* Eγ: poor fit; level-energy difference=106.74. I(ce(K))=0.02 *1*.
107.87 *2*	1.22 *2*	1802.233	5$^+$	1694.368	4$^+$	M1+E2	0.40[a]	1.94		α(K)=1.526 *22*; α(L)=0.325 *5*; α(M)=0.0737 *11* α(N)=0.01685 *24*; α(O)=0.00230 *4*; α(P)=9.25×10^{-5} *13* I(ce(K))=1.59 *3*.
119.43 *7*	0.021 *8*	1518.421	2$^+$	1398.969	3$^-$	(E1)		0.192		α(K)=0.1608 *23*; α(L)=0.0244 *4*; α(M)=0.00534 *8* α(N)=0.001216 *18*; α(O)=0.0001673 *24*; α(P)=7.61×10^{-6} *11* I(ce(K))=0.006 *1*.
120.8 *2*	0.005 *5*	2021.95	9$^+$	1901.15	9$^-$	[E1]		0.186		α(K)=0.1560 *23*; α(L)=0.0236 *4*; α(M)=0.00518 *8* α(N)=0.001178 *18*; α(O)=0.0001622 *24*; α(P)=7.39×10^{-6} *11* Iγ: other: < 0.005 (2009KaZY).
121.7 *1*	0.007 *3*	1386.455	4$^-$	1264.767	2$^-$	(E2)		1.322		α(K)=0.670 *10*; α(L)=0.502 *8*; α(M)=0.1197 *18* α(N)=0.0269 *4*; α(O)=0.00327 *5*; α(P)=2.85×10^{-5} *4* I(ce(K))=0.003 *1*.
122.53[e] *2*	0.076[e] *17*	2367.47	2$^+$,3$^+$,4$^+$	2244.94	2$^+$,3,4$^+$	(M1)		1.340	0.18 *4*	ce(K)/(γ+ce)=0.482 *4*; ce(L)/(γ+ce)=0.0708 *11*; ce(M)/(γ+ce)=0.01555 *25* ce(N)/(γ+ce)=0.00360 *6*; ce(O)/(γ+ce)=0.000526 *9*; ce(P)/(γ+ce)=3.00×10^{-5} *5* α(K)=1.128 *16*; α(L)=0.1656 *24*; α(M)=0.0364 *5* α(N)=0.00841 *12*; α(O)=0.001231 *18*; α(P)=7.03×10^{-5} *10* Iγ: from I(γ+ce) and α. Iγ=0.094 *8* for the composite peak. I(ce(K))=0.12 *4*.
122.53[e] *2*	0.030[e] *9*	2885.59		2763.05		(M1)		1.340	0.07 *2*	Iγ: Iγ=0.094 *8* for the composite peak.

$^{160}_{66}$Dy$_{94}$-10

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	δ [&c]	α [b]	Comments
126.94 2	0.218 8	1929.186	6$^+$	1802.233	5$^+$	M1+E2	0.37 [a]	1.203	α(K)=0.970 14; α(L)=0.182 3; α(M)=0.0409 6 α(N)=0.00937 14; α(O)=0.001306 19; α(P)=5.90$\times10^{-5}$ 9 I(ce(K))=0.21 2.
130.87 2	0.0014 5	1286.721	3$^-$	1155.851	4$^+$	[E1]		0.1502	α(K)=0.1260 18; α(L)=0.0189 3; α(M)=0.00414 6 α(N)=0.000944 14; α(O)=0.0001306 19; α(P)=6.04$\times10^{-6}$ 9
136.16 4	0.0015 7	1535.155	4$^-$	1398.969	3$^-$	[M1,E2]		0.94 6	α(K)=0.66 18; α(L)=0.214 92; α(M)=0.050 23 α(N)=0.0113 51; α(O)=0.00146 55; α(P)=3.7$\times10^{-5}$ 16
137.0 2	0.02 1	1787.82	6$^-$	1650.882	4$^-$,5$^-$	[M1,E2]		0.92 6	α(K)=0.65 18; α(L)=0.209 89; α(M)=0.049 23 α(N)=0.0110 49; α(O)=0.00142 53; α(P)=3.6$\times10^{-5}$ 16
139.3 2	0.015 10	2021.95	9$^+$	1882.62	8$^-$	[E1]		0.1271	α(K)=0.1067 16; α(L)=0.01593 24; α(M)=0.00349 5 α(N)=0.000795 12; α(O)=0.0001103 16; α(P)=5.16$\times10^{-6}$ 8 I_γ: other: < 0.01 (2009KaZY).
145.0 2	0.02 1	2074.18	7$^+$	1929.186	6$^+$	[M1,E2]		0.77 7	α(K)=0.55 15; α(L)=0.167 65; α(M)=0.039 17 α(N)=0.0088 36; α(O)=0.00114 39; α(P)=3.1$\times10^{-5}$ 13 I_γ: other: < 0.01 (2009KaZY).
148.71 4	0.035 8	1535.155	4$^-$	1386.455	4$^-$	E2		0.650	α(K)=0.380 6; α(L)=0.208 3; α(M)=0.0493 7 α(N)=0.01110 16; α(O)=0.001369 20; α(P)=1.688$\times10^{-5}$ 24 I(ce(K))=0.012 3.
154.04 4	0.060 11	2851.73	1$^-$	2697.826	2$^+$	E1		0.0971	α(K)=0.0817 12; α(L)=0.01208 17; α(M)=0.00264 4 α(N)=0.000603 9; α(O)=8.41$\times10^{-5}$ 12; α(P)=4.00$\times10^{-6}$ 6 E_γ: poor fit; level-energy difference=153.90. I(ce(K))=0.006 1.
163.35 2	0.191 9	2861.17	1$^+$	2697.826	2$^+$	M1+E2		0.53 7	α(K)=0.40 11; α(L)=0.106 33; α(M)=0.0245 84 α(N)=0.0056 19; α(O)=7.3$\times10^{-4}$ 19; α(P)=2.22$\times10^{-5}$ 91 I(ce(K))=0.09 1.
^{x}166.27 5	0.017 4								
171.1 2	0.039 6	2297.49	2$^+$	2126.37	3$^-$	[E1]		0.0734	α(K)=0.0619 9; α(L)=0.00907 13; α(M)=0.00198 3 α(N)=0.000453 7; α(O)=6.34$\times10^{-5}$ 9; α(P)=3.07$\times10^{-6}$ 5
176.49 3	0.023 7	1535.155	4$^-$	1358.693	2$^-$	E2		0.360	α(K)=0.230 4; α(L)=0.1005 14; α(M)=0.0237 4 α(N)=0.00534 8; α(O)=0.000667 10; α(P)=1.065$\times10^{-5}$ 15 I(ce(K))<0.003.
183.9 1	0.02 1	1801.16	8$^+$	1617.28	7$^+$	[M1,E2]		0.37 6	α(K)=0.282 79; α(L)=0.069 16; α(M)=0.0157 42 α(N)=0.00358 92; α(O)=0.00048 9; α(P)=1.60$\times10^{-5}$ 65 I_γ: other: < 0.005 (2009KaZY).
187.1 1	0.026 15	1801.16	8$^+$	1613.99	7$^-$	[E1]		0.0580	α(K)=0.0489 7; α(L)=0.00712 10; α(M)=0.001556 22 α(N)=0.000356 5; α(O)=5.00$\times10^{-5}$ 7; α(P)=2.45$\times10^{-6}$ 4 I_γ: other: < 0.005 (2009KaZY).
189.66 3	0.188 23	1155.851	4$^+$	966.174	2$^+$	E2		0.282	α(K)=0.186 3; α(L)=0.0745 11; α(M)=0.01751 25 α(N)=0.00395 6; α(O)=0.000497 7; α(P)=8.75$\times10^{-6}$ 13 I(ce(K))=0.035 10.
191.5 2	0.03 1	2074.18	7$^+$	1882.62	8$^-$	[E1]		0.0545	α(K)=0.0460 7; α(L)=0.00669 10; α(M)=0.001462 21 α(N)=0.000334 5; α(O)=4.70$\times10^{-5}$ 7; α(P)=2.31$\times10^{-6}$ 4 E_γ,I_γ: other: 191.7 keV, 0.023 5 (2009KaZY).

γ(^{160}Dy) (continued)

E_γ †‡	I_γ †#	E_i(level)	J_i^π	E_f	J_f^π	Mult. @	α b	$I_{(\gamma+ce)}$ †	Comments
x192.0 *2*	0.30 *1*					E2	0.271		α(K)=0.179 *3*; α(L)=0.0709 *11*; α(M)=0.01664 *25* α(N)=0.00376 *6*; α(O)=0.000473 *7*; α(P)=8.47×10^{-6} *12* I(ce(K))=0.007 *2*.
x192.7	0.021 *5*								
193.4 *2*	0.02 *1*	1787.82	6$^-$	1594.38	6$^-$	[M1,E2]	0.32 *6*		α(K)=0.245 *70*; α(L)=0.057 *12*; α(M)=0.013 *3* α(N)=0.0030 *7*; α(O)=0.00040 *6*; α(P)=1.39×10^{-5} *56* I_γ: other: < 0.008 (2009KaZY).
197.03 *2*	85.0 *22*	283.820	4$^+$	86.789	2$^+$	E2	0.248		α(K)=0.1659 *24*; α(L)=0.0638 *9*; α(M)=0.01495 *21* α(N)=0.00338 *5*; α(O)=0.000426 *6*; α(P)=7.89×10^{-6} *11* δ: 1998Kr21 report δ(M3/E2)=−0.05 *+13−14*. However, from RUL<10 for an M3 transition, one expects that δ(M3/E2)<1.4×10^{-5}. I(ce(K))=14.0 *13*.
201.2 *2*	0.03 *1*	1787.82	6$^-$	1586.748	5$^-$	[M1,E2]	0.28 *6*		α(K)=0.219 *63*; α(L)=0.050 *9*; α(M)=0.0114 *24* α(N)=0.0026 *6*; α(O)=0.00035 *5*; α(P)=1.25×10^{-5} *51*
211.20e *16*	0.011e *8*	2661.522	2$^-$	2450.26	1$^-$	M1	0.292	0.014 *10*	ce(K)/(γ+ce)=0.1907 *22*; ce(L)/(γ+ce)=0.0277 *4*; ce(M)/(γ+ce)=0.00608 *9* ce(N)/(γ+ce)=0.001407 *21*; ce(O)/(γ+ce)=0.000206 *3*; ce(P)/(γ+ce)=1.183×10^{-5} *18* α(K)=0.246 *4*; α(L)=0.0358 *5*; α(M)=0.00786 *12* α(N)=0.00182 *3*; α(O)=0.000266 *4*; α(P)=1.528×10^{-5} *22* I_γ: Iγ=0.014 *10* for the composite peak. I(ce(K))=0.004 *1*.
211.20e *16*	0.009e *8*	2885.59		2674.720	1$^-$	M1	0.292	0.011 *10*	I_γ: Iγ=0.014 *10* for the composite peak.
212.8 *1*	0.016 *4*	2297.49	2$^+$	2084.814	(1,2)$^+$	[M1,E2]	0.24 *5*		α(K)=0.187 *55*; α(L)=0.041 *6*; α(M)=0.0093 *17* α(N)=0.0021 *4*; α(O)=0.00029 *3*; α(P)=1.07×10^{-5} *43*
215.64 *2*	1.078 *20*	1264.767	2$^-$	1049.113	3$^+$	E1	0.0399		α(K)=0.0337 *5*; α(L)=0.00487 *7*; α(M)=0.001063 *15* α(N)=0.000243 *4*; α(O)=3.44×10^{-5} *5*; α(P)=1.721×10^{-6} *25* I(ce(K))=0.038 *9*.
220.8 *2*	0.02 *1*	2021.95	9$^+$	1801.16	8$^+$	[M1,E2]	0.21 *5*		α(K)=0.168 *50*; α(L)=0.036 *5*; α(M)=0.0082 *13* α(N)=0.0019 *3*; α(O)=0.000254 *19*; α(P)=9.7×10^{-6} *39* E_γ,I_γ: other: 221.2 keV, < 0.015 (2009KaZY).
224.4e *3*	0.0021e *11*	1489.503	1$^-$	1264.767	2$^-$	E2,M1	0.20 *5*	0.0025 *11*	ce(K)/(γ+ce)=0.133 *35*; ce(L)/(γ+ce)=0.028 *4*; ce(M)/(γ+ce)=0.0064 *10* ce(N)/(γ+ce)=0.00147 *20*; ce(O)/(γ+ce)=0.000199 *15*; ce(P)/(γ+ce)=7.7×10^{-6} *31* α(K)=0.161 *48*; α(L)=0.034 *4*; α(M)=0.0077 *11* α(N)=0.00177 *23*; α(O)=0.000240 *16*; α(P)=9.2×10^{-6} *37* I_γ: Iγ=0.0054 *27* for the composite peak. I(ce(K))<0.003.
224.4e *3*	0.0021e *11*	2674.720	1$^-$	2450.26	1$^-$	E2,M1	0.20 *5*	0.0025 *11*	ce(K)/(γ+ce)=0.133 *35*; ce(L)/(γ+ce)=0.028 *4*; ce(M)/(γ+ce)=0.0064 *10*

$^{160}_{66}$Dy$_{94}$-12

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	α [b]	$I_{(\gamma+ce)}$ [†]	Comments
									ce(N)/(γ+ce)=0.00147 *20*; ce(O)/(γ+ce)=0.000199 *15*; ce(P)/(γ+ce)=7.7×10^{-6} *31* α(K)=0.161 *48*; α(L)=0.034 *4*; α(M)=0.0077 *11* α(N)=0.00177 *23*; α(O)=0.000240 *16*; α(P)=9.2×10^{-6} *37* I_γ: Iγ=0.0054 *27* for the composite peak.
[x]226.43 *10*	0.041 *17*					E2,M1	0.20 *5*		α(K)=0.157 *47*; α(L)=0.033 *4*; α(M)=0.0075 *11* α(N)=0.00171 *22*; α(O)=0.000233 *14*; α(P)=9.0×10^{-6} *37* I(ce(K))<0.004.
230.67 *6*	0.140 *20*	1386.455	4$^-$	1155.851	4$^+$	(E1)	0.0335		α(K)=0.0283 *4*; α(L)=0.00407 *6*; α(M)=0.000889 *13* α(N)=0.000204 *3*; α(O)=2.88×10^{-5} *4*; α(P)=1.457×10^{-6} *21* I(ce(K))=0.0041 *9*.
231.7 *1*	0.081 *15*	1518.421	2$^+$	1286.721	3$^-$	E1	0.0332		α(K)=0.0280 *4*; α(L)=0.00402 *6*; α(M)=0.000879 *13* α(N)=0.000201 *3*; α(O)=2.85×10^{-5} *4*; α(P)=1.441×10^{-6} *21* I(ce(K))=0.0027 *9*.
232.84 *13*	0.072 *13*	1518.421	2$^+$	1285.607	1$^-$	E1	0.0327		α(K)=0.0277 *4*; α(L)=0.00397 *6*; α(M)=0.000867 *13* α(N)=0.000199 *3*; α(O)=2.81×10^{-5} *4*; α(P)=1.423×10^{-6} *20* I(ce(K))=0.0025 *9*.
234.81[e] *6*	0.09[e] *4*	1756.920	2$^+$	1522.34	4$^+$	(E2)	0.1395	0.10 *5*	ce(K)/(γ+ce)=0.0866 *12*; ce(L)/(γ+ce)=0.0278 *4*; ce(M)/(γ+ce)=0.00646 *9* ce(N)/(γ+ce)=0.001463 *21*; ce(O)/(γ+ce)=0.000188 *3*; ce(P)/(γ+ce)=4.29×10^{-6} *6* α(K)=0.0986 *14*; α(L)=0.0316 *5*; α(M)=0.00737 *11* α(N)=0.001667 *24*; α(O)=0.000214 *3*; α(P)=4.89×10^{-6} *7* E_γ: level-energy difference=234.58. Eγ=234.81 for doublet. I_γ: Iγ=0.18 *2* for the composite peak. Mult.: 2002Ad34 quote E2,M1, but placement requires E2. I(ce(K))=0.018 *2*.
234.81[e] *6*	0.09[e] *4*	1929.186	6$^+$	1694.368	4$^+$	(E2)	0.1395	0.10 *5*	ce(K)/(γ+ce)=0.0866 *12*; ce(L)/(γ+ce)=0.0278 *4*; ce(M)/(γ+ce)=0.00646 *9* ce(N)/(γ+ce)=0.001463 *21*; ce(O)/(γ+ce)=0.000188 *3*; ce(P)/(γ+ce)=4.29×10^{-6} *6* α(K)=0.0986 *14*; α(L)=0.0316 *5*; α(M)=0.00737 *11* α(N)=0.001667 *24*; α(O)=0.000214 *3*; α(P)=4.89×10^{-6} *7* I_γ: Iγ=0.18 *2* for the composite peak.
237.65 *9*	0.0090 *10*	1286.721	3$^-$	1049.113	3$^+$	E1	0.0311		α(K)=0.0263 *4*; α(L)=0.00376 *6*; α(M)=0.000822 *12* α(N)=0.000188 *3*; α(O)=2.67×10^{-5} *4*; α(P)=1.353×10^{-6} *19* I(ce(K))<0.0003.
239.57 *8*	0.274 *11*	1288.670	5$^+$	1049.113	3$^+$	E2	0.1308		α(K)=0.0930 *13*; α(L)=0.0293 *5*; α(M)=0.00680 *10* α(N)=0.001541 *22*; α(O)=0.000198 *3*; α(P)=4.63×10^{-6} *7* I(ce(K))=0.026 *3*.
243.15 *10*	0.012 *1*	1398.969	3$^-$	1155.851	4$^+$	E1	0.0293		α(K)=0.0248 *4*; α(L)=0.00354 *5*; α(M)=0.000774 *11* α(N)=0.0001773 *25*; α(O)=2.51×10^{-5} *4*; α(P)=1.279×10^{-6} *18* I(ce(K))<0.0003.

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	δ [&c]	α [b]	$I_{(\gamma+ce)}$ [†]	Comments
244.1		1952.31	0^+	1708.14	0^+	(E0)			0.0027	E_γ,Mult.: from 2009Ad04. $I_{(\gamma+ce)}$: calculated by evaluator based on measured I(ce(K)) and ratio of electronic factors Ω_K(E0)\Ω(E0)=0.873. I(ce(K))=0.0024 (2009Ad04).
246.55 *8*	0.103 *12*	1535.155	4^-	1288.670	5^+	E1		0.0283		α(K)=0.0239 *4*; α(L)=0.00342 *5*; α(M)=0.000746 *11* α(N)=0.0001710 *24*; α(O)=2.43×10^{-5} *4*; α(P)=1.236×10^{-6} *18* I(ce(K))=0.0025 *3*.
248.41 *3*	0.009 *5*	1535.155	4^-	1286.721	3^-	E2		0.1164		α(K)=0.0836 *12*; α(L)=0.0254 *4*; α(M)=0.00591 *9* α(N)=0.001338 *19*; α(O)=0.0001727 *25*; α(P)=4.19×10^{-6} *6* I(ce(K))=0.0012 *3*.
252.8 *3*	0.02 *1*	1787.82	6^-	1535.155	4^-	E2		0.1101		α(K)=0.0794 *12*; α(L)=0.0238 *4*; α(M)=0.00552 *9* α(N)=0.001250 *19*; α(O)=0.0001616 *24*; α(P)=4.00×10^{-6} *6* Mult.: from (α,xnγ).
^{x}254.59 *2*	0.05 *1*									
256.40 *14*	0.063 *15*	1860.18	5^-	1603.79	4^+	E1		0.0256		α(K)=0.0216 *3*; α(L)=0.00308 *5*; α(M)=0.000674 *10* α(N)=0.0001544 *22*; α(O)=2.19×10^{-5} *3*; α(P)=1.123×10^{-6} *16* I(ce(K))<0.0014.
265.3 *2*	0.02 *1*	1882.62	8^-	1617.28	7^+	E1(+M2)	1.5 *15*	0.50 *48*		α(K)=0.40 *38*; α(L)=0.076 *73*; α(M)=0.017 *17* α(N)=0.0040 *39*; α(O)=5.7×10^{-4} *56*; α(P)=3.1×10^{-5} *30*
267.45 *10*	0.064 *9*	1756.920	2^+	1489.503	1^-	E1		0.0230		α(K)=0.0194 *3*; α(L)=0.00276 *4*; α(M)=0.000604 *9* α(N)=0.0001384 *20*; α(O)=1.97×10^{-5} *3*; α(P)=1.013×10^{-6} *15* I(ce(K))<0.0010.
270.65 *5*	0.033 *3*	2367.47	$2^+,3^+,4^+$	2096.896	4^+					
272.0 *2*	0.022 *13*	2074.18	7^+	1802.233	5^+	[E2]		0.0874		α(K)=0.0641 *9*; α(L)=0.0180 *3*; α(M)=0.00417 *6* α(N)=0.000945 *14*; α(O)=0.0001231 *18*; α(P)=3.28×10^{-6} *5*
^{x}274.99 *25*	0.03 *1*									
279.76[d] *15*	0.037[d] *6*	1802.233	5^+	1522.34	4^+	E2		0.0800	0.04 *2*	ce(K)/(γ+ce)=0.0547 *8*; ce(L)/(γ+ce)=0.01502 *21*; ce(M)/(γ+ce)=0.00347 *5* ce(N)/(γ+ce)=0.000787 *12*; ce(O)/(γ+ce)=0.0001028 *15*; ce(P)/(γ+ce)=2.81×10^{-6} *4* α(K)=0.0591 *9*; α(L)=0.01622 *23*; α(M)=0.00375 *6* α(N)=0.000850 *12*; α(O)=0.0001110 *16*; α(P)=3.04×10^{-6} *5* I(ce(K))<0.002.
279.76[d] *15*	0.037[d] *6*	2729.84	2^-	2450.26	1^-	(E2)		0.0800	0.04 *2*	ce(K)/(γ+ce)=0.0547 *8*; ce(L)/(γ+ce)=0.01502 *21*;

From ENSDF

$^{160}_{66}Dy_{94}$-14

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [b]	$I_{(\gamma+ce)}$ [†]	Comments
									ce(M)/(γ+ce)=0.00347 *5* ce(N)/(γ+ce)=0.000787 *12*; ce(O)/(γ+ce)=0.0001028 *15*; ce(P)/(γ+ce)=2.81×10^{-6} *4* α(K)=0.0591 *9*; α(L)=0.01622 *23*; α(M)=0.00375 *6* α(N)=0.000850 *12*; α(O)=0.0001110 *16*; α(P)=3.04×10^{-6} *5*
282.84 *9*	0.139 *13*	1438.57	6$^+$	1155.851	4$^+$	E2	0.0773		α(K)=0.0573 *8*; α(L)=0.01557 *22*; α(M)=0.00360 *5* α(N)=0.000816 *12*; α(O)=0.0001067 *15*; α(P)=2.95×10^{-6} *5* I(ce(K))=0.008 *2*.
288.3 *2*	0.02 *1*	1882.62	8$^-$	1594.38	6$^-$	E2	0.0729		α(K)=0.0542 *8*; α(L)=0.01451 *21*; α(M)=0.00335 *5* α(N)=0.000760 *11*; α(O)=9.96×10^{-5} *15*; α(P)=2.80×10^{-6} *4* Mult.: from (α,xnγ).
[x]289.42 *15*	0.065 *20*					E2,M1	0.098 *27*		α(K)=0.079 *26*; α(L)=0.0147 *5*; α(M)=0.00331 *5* α(N)=0.000758 *15*; α(O)=0.000105 *8*; α(P)=4.6×10^{-6} *19* I(ce(K))=0.0050 *15*.
297.25 *6*	7.16 *23*	581.069	6$^+$	283.820	4$^+$	E2	0.0664		α(K)=0.0496 *7*; α(L)=0.01297 *19*; α(M)=0.00299 *5* α(N)=0.000679 *10*; α(O)=8.92×10^{-5} *13*; α(P)=2.58×10^{-6} *4* δ: 1998Kr21 report δ(M3/E2)=+0.02 *+12−11*. I(ce(K))=0.37 *5*.
298.15[e] *7*	0.5[e] *1*	1586.748	5$^-$	1288.670	5$^+$	(E1)	0.01747	0.5 *1*	ce(K)/(γ+ce)=0.01454 *20*; ce(L)/(γ+ce)=0.00206 *3*; ce(M)/(γ+ce)=0.000449 *7* ce(N)/(γ+ce)=0.0001030 *15*; ce(O)/(γ+ce)=1.469×10^{-5} *21*; ce(P)/(γ+ce)=7.66×10^{-7} *11* α(K)=0.01480 *21*; α(L)=0.00209 *3*; α(M)=0.000457 *7* α(N)=0.0001048 *15*; α(O)=1.495×10^{-5} *21*; α(P)=7.80×10^{-7} *11* I_γ: Iγ=2.5 *8* for the composite peak. I(ce(K))=0.038 *7*.
298.15[e] *7*	1.7[e] *3*	2681.828	5$^+$	2383.70	6$^-$	E1	0.01747	1.7 *3*	ce(K)/(γ+ce)=0.01454 *20*; ce(L)/(γ+ce)=0.00206 *3*; ce(M)/(γ+ce)=0.000449 *7* ce(N)/(γ+ce)=0.0001030 *15*; ce(O)/(γ+ce)=1.469×10^{-5} *21*; ce(P)/(γ+ce)=7.66×10^{-7} *11* α(K)=0.01480 *21*; α(L)=0.00209 *3*; α(M)=0.000457 *7* α(N)=0.0001048 *15*; α(O)=1.495×10^{-5} *21*; α(P)=7.80×10^{-7} *11* I_γ: Iγ=2.5 *8* for the composite peak.
298.15[e] *7*	0.20[e] *5*	2858.17		2560.02	2$^+$,3,4$^+$	E1	0.01747	0.20 *5*	ce(K)/(γ+ce)=0.01454 *20*; ce(L)/(γ+ce)=0.00206 *3*; ce(M)/(γ+ce)=0.000449 *7* ce(N)/(γ+ce)=0.0001030 *15*; ce(O)/(γ+ce)=1.469×10^{-5} *21*; ce(P)/(γ+ce)=7.66×10^{-7} *11* α(K)=0.01480 *21*; α(L)=0.00209 *3*; α(M)=0.000457 *7* α(N)=0.0001048 *15*; α(O)=1.495×10^{-5} *21*; α(P)=7.80×10^{-7} *11* I_γ: Iγ=2.5 *8* for the composite peak.
298.61 *2*	7.1 *8*	1264.767	2$^-$	966.174	2$^+$	E1	0.01740		α(K)=0.01474 *21*; α(L)=0.00208 *3*; α(M)=0.000455 *7*

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	δ [&c]	α [b]	$I_{(\gamma+ce)}$ [†]	Comments
										α(N)=0.0001044 *15*; α(O)=1.489×10^{-5} *21*; α(P)=7.77×10^{-7} *11* I(ce(K))=0.110 *17*. δ: 1998Kr21 report δ(M2/E1)=−0.04 *+30−24*.
306.2 *4*	0.034 *15*	1594.38	6$^-$	1288.670	5$^+$	E1+M2	−0.20 *10*	0.033 *19*		α(K)=0.027 *16*; α(L)=0.0044 *28*; α(M)=9.8×10^{-4} *64* α(N)=2.3×10^{-4} *15*; α(O)=3.2×10^{-5} *22*; α(P)=1.7×10^{-6} *12* I(ce(K))<0.0003.
308.2 *3*	0.05 *3*	1694.368	4$^+$	1386.455	4$^-$	E1		0.01609		α(K)=0.01363 *20*; α(L)=0.00192 *3*; α(M)=0.000420 *6* α(N)=9.64×10^{-5} *14*; α(O)=1.376×10^{-5} *20*; α(P)=7.20×10^{-7} *11* I(ce(K))<0.0003.
309.54^e *2*	1.1^e *2*	1358.693	2$^-$	1049.113	3$^+$	E1+M2	−0.013 *7*	0.01598 *25*	1.1 *2*	ce(K)/(γ+ce)=0.01327 *19*; ce(L)/(γ+ce)=0.00187 *3*; ce(M)/(γ+ce)=0.000409 *6* ce(N)/(γ+ce)=9.38×10^{-5} *14*; ce(O)/(γ+ce)=1.340×10^{-5} *19*; ce(P)/(γ+ce)=7.02×10^{-7} *10* α(K)=0.01349 *19*; α(L)=0.00190 *3*; α(M)=0.000415 *6* α(N)=9.53×10^{-5} *14*; α(O)=1.361×10^{-5} *19*; α(P)=7.13×10^{-7} *10* I_γ: Iγ=1.99 *4* for the composite peak. δ: 1998Kr21 report δ(M2/E1)=+0.15 *+18−16*. I(ce(K))=0.028 *4*.
309.54^e *2*	0.9^e *2*	2681.828	5$^+$	2372.31	6$^-$	E1		0.01591	0.9 *2*	ce(K)/(γ+ce)=0.01327 *19*; ce(L)/(γ+ce)=0.00187 *3*; ce(M)/(γ+ce)=0.000409 *6* ce(N)/(γ+ce)=9.38×10^{-5} *14*; ce(O)/(γ+ce)=1.340×10^{-5} *19*; ce(P)/(γ+ce)=7.02×10^{-7} *10* α(K)=0.01349 *19*; α(L)=0.00190 *3*; α(M)=0.000415 *6* α(N)=9.53×10^{-5} *14*; α(O)=1.361×10^{-5} *19*; α(P)=7.13×10^{-7} *10* I_γ: Iγ=1.99 *4* for the composite peak.
311.90 *6*	0.091 *7*	1929.186	6$^+$	1617.28	7$^+$	E2,(M1)		0.080 *23*		α(K)=0.065 *22*; α(L)=0.0116 *8*; α(M)=0.00261 *11* α(N)=0.00060 *3*; α(O)=8.4×10^{-5} *9*; α(P)=3.8×10^{-6} *16* I(ce(K))=0.0060 *15*.
^{x}313.3 *4*	0.018 *15*									
315.33^e *21*	0.016^e *10*	1603.79	4$^+$	1288.670	5$^+$	[M1,E2]		0.077 *22*		α(K)=0.063 *21*; α(L)=0.0112 *8*; α(M)=0.00252 *12* α(N)=0.00058 *4*; α(O)=8.1×10^{-5} *9*; α(P)=3.7×10^{-6} *15* I_γ: Iγ=0.029 *8* for the composite peak.
315.33^e *21*	0.016^e *10*	1804.675	1$^+$	1489.503	1$^-$	[E1]		0.01520		α(K)=0.01288 *19*; α(L)=0.00182 *3*; α(M)=0.000396 *6*

γ(^{160}Dy) (continued)

Eγ †‡	Iγ †#	Ei(level)	J^π_i	Ef	J^π_f	Mult. @	δ &c	α b	Comments
									α(N)=9.10×10^{-5} *13*; α(O)=1.300×10^{-5} *19*; α(P)=6.82×10^{-7} *10* Iγ: Iγ=0.029 *8* for the composite peak.
315.33[e] *21*	0.005[e] *5*	1929.186	6$^+$	1613.99	7$^-$	[E1]		0.01520	α(K)=0.01288 *19*; α(L)=0.00182 *3*; α(M)=0.000396 *6* α(N)=9.10×10^{-5} *13*; α(O)=1.300×10^{-5} *19*; α(P)=6.82×10^{-7} *10* Iγ: Iγ=0.029 *8* for the composite peak.
319.19 *9*	0.031 *15*	1607.86	4$^+$	1288.670	5$^+$	(E2)		0.0535	α(K)=0.0405 *6*; α(L)=0.01004 *14*; α(M)=0.00230 *4* α(N)=0.000524 *8*; α(O)=6.93×10^{-5} *10*; α(P)=2.13×10^{-6} *3* I(ce(K))<0.002.
320.50[e] *7*	0.014[e] *8*	1286.721	3$^-$	966.174	2$^+$	(E1)		0.01460	α(K)=0.01238 *18*; α(L)=0.001743 *25*; α(M)=0.000380 *6* α(N)=8.73×10^{-5} *13*; α(O)=1.248×10^{-5} *18*; α(P)=6.56×10^{-7} *10* Iγ: Iγ=0.025 *14* for the composite peak. I(ce(K))=0.0003 *1*.
320.50[e] *7*	0.011[e] *5*	2077.37	3$^-$	1756.920	2$^+$	(E1)		0.01460	α(K)=0.01238 *18*; α(L)=0.001743 *25*; α(M)=0.000380 *6* α(N)=8.73×10^{-5} *13*; α(O)=1.248×10^{-5} *18*; α(P)=6.56×10^{-7} *10*
324.98[e] *20*	0.04[e] *2*	1860.18	5$^-$	1535.155	4$^-$	[M1,E2]		0.071 *21*	α(K)=0.058 *20*; α(L)=0.0102 *9*; α(M)=0.00229 *14* α(N)=0.00053 *4*; α(O)=7.4×10^{-5} *9*; α(P)=3.4×10^{-6} *14* Iγ: Iγ=0.075 *11* for the composite peak.
324.98[e] *20*	0.04[e] *2*	2112.70	8$^-$	1787.82	6$^-$	[E2]		0.0507	α(K)=0.0385 *6*; α(L)=0.00941 *14*; α(M)=0.00216 *3* α(N)=0.000491 *7*; α(O)=6.51×10^{-5} *10*; α(P)=2.04×10^{-6} *3* Iγ: Iγ=0.075 *11* for the composite peak.
327.3 *3*	0.03 *2*	3061.83	1$^+$	2734.720	1$^-$	[E1]		0.01387	α(K)=0.01176 *17*; α(L)=0.001654 *24*; α(M)=0.000361 *6* α(N)=8.29×10^{-5} *12*; α(O)=1.185×10^{-5} *17*; α(P)=6.24×10^{-7} *9*
328.6 *1*	0.22 *4*	1617.28	7$^+$	1288.670	5$^+$	E2		0.0490	α(K)=0.0373 *6*; α(L)=0.00905 *13*; α(M)=0.00208 *3* α(N)=0.000472 *7*; α(O)=6.27×10^{-5} *9*; α(P)=1.98×10^{-6} *3* Mult.: from (α,xnγ).
329.0 *1*	0.18 *3*	2113.69		1784.696	4$^-$				
333.16 *10*	0.151 *15*	2630.714	1$^-$	2297.49	2$^+$	E1		0.01328	α(K)=0.01126 *16*; α(L)=0.001582 *23*; α(M)=0.000345 *5* α(N)=7.93×10^{-5} *12*; α(O)=1.134×10^{-5} *16*; α(P)=5.99×10^{-7} *9* I(ce(K))=0.0020 *15*.
334.77 *19*	0.047 *14*	1929.186	6$^+$	1594.38	6$^-$	[E1]		0.01312	α(K)=0.01113 *16*; α(L)=0.001563 *22*; α(M)=0.000341 *5* α(N)=7.83×10^{-5} *11*; α(O)=1.121×10^{-5} *16*; α(P)=5.92×10^{-7} *9*
337.36 *2*	0.54 *3*	1386.455	4$^-$	1049.113	3$^+$	E1+M2	+0.028 *13*	0.0131 *4*	α(K)=0.0111 *3*; α(L)=0.00157 *5*; α(M)=0.000343 *11* α(N)=7.87×10^{-5} *24*; α(O)=1.13×10^{-5} *4*; α(P)=5.96×10^{-7} *19* δ: from ^{160}Tb β^- decay. I(ce(K))=0.0060 *5*.
340.4 *3*	0.030 *11*	2096.896	4$^+$	1756.920	2$^+$	[E2]		0.0441	α(K)=0.0338 *5*; α(L)=0.00800 *12*; α(M)=0.00183 *3* α(N)=0.000417 *6*; α(O)=5.55×10^{-5} *8*; α(P)=1.80×10^{-6} *3*
349.86 *3*	0.019 *1*	1398.969	3$^-$	1049.113	3$^+$	[E1]		0.01179	α(K)=0.01000 *14*; α(L)=0.001402 *20*; α(M)=0.000306 *5* α(N)=7.02×10^{-5} *10*; α(O)=1.006×10^{-5} *14*; α(P)=5.34×10^{-7} *8*
355.74 *10*	0.032 *16*	2009.535	1$^-$,2$^-$	1653.66					
357.92 *11*	0.108 *20*	1756.920	2$^+$	1398.969	3$^-$	E1		0.01116	α(K)=0.00947 *14*; α(L)=0.001325 *19*; α(M)=0.000289 *4*

From ENSDF

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	δ [&c]	α [b]	Comments
									α(N)=6.64×10^{-5} *10*; α(O)=9.52×10^{-6} *14*; α(P)=5.06×10^{-7} *7* I(ce(K))=0.005 *2*.
359.46 *15*	0.057 *8*	2630.714	1$^-$	2271.253	2$^-$	M1,E2		0.054 *17*	α(K)=0.044 *15*; α(L)=0.0075 *10*; α(M)=0.00168 *18* α(N)=0.00039 *5*; α(O)=5.5×10^{-5} *9*; α(P)=2.6×10^{-6} *11* I(ce(K))=0.0025 *8*.
362.20 *12*	0.082 *8*	1650.882	4$^-$,5$^-$	1288.670	5$^+$	E1		0.01085	α(K)=0.00920 *13*; α(L)=0.001287 *18*; α(M)=0.000281 *4* α(N)=6.45×10^{-5} *9*; α(O)=9.25×10^{-6} *13*; α(P)=4.92×10^{-7} *7* I(ce(K))<0.001.
363.66 *3*	0.773 *22*	1802.233	5$^+$	1438.57	6$^+$	E2,M1		0.052 *16*	α(K)=0.043 *15*; α(L)=0.0073 *10*; α(M)=0.00163 *18* α(N)=0.00037 *5*; α(O)=5.3×10^{-5} *9*; α(P)=2.5×10^{-6} *10* I(ce(K))=0.022 *3*.
368.26 *4*	0.138 *6*	1655.00	2$^+$,3$^+$,4$^+$	1286.721	3$^-$	E1		0.01042	α(K)=0.00885 *13*; α(L)=0.001236 *18*; α(M)=0.000270 *4* α(N)=6.19×10^{-5} *9*; α(O)=8.88×10^{-6} *13*; α(P)=4.74×10^{-7} *7* I(ce(K))<0.0015.
370.7 *3*	0.02 *1*	2323.09	1$^+$,2$^+$	1952.31	0$^+$	[M1,E2]		0.049 *15*	α(K)=0.041 *14*; α(L)=0.0069 *10*; α(M)=0.00154 *18* α(N)=0.00035 *5*; α(O)=5.0×10^{-5} *9*; α(P)=2.40×10^{-6} *96*
372.47 *4*	0.330 *7*	2469.51	3$^-$	2096.896	4$^+$	E1		0.01014	α(K)=0.00861 *12*; α(L)=0.001202 *17*; α(M)=0.000262 *4* α(N)=6.02×10^{-5} *9*; α(O)=8.64×10^{-6} *13*; α(P)=4.62×10^{-7} *7* E_γ: poor fit; level-energy difference=372.62. I(ce(K))=0.0030 *7*.
375.57 *18*	0.030 *8*	2879.47	2	2503.80	1$^+$,2$^+$				
379.34 *5*	0.045 *15*	1535.155	4$^-$	1155.851	4$^+$				
379.8 *3*	0.11 *3*	1869.518	2$^+$	1489.503	1$^-$				
^{x}381.20 *9*	0.079 *9*								
382.8 *2*	0.061 *16*	2077.37	3$^-$	1694.368	4$^+$				
^{x}384.0 *2*	0.042 *5*								
385.68 *8*	0.187 *19*	966.75	8$^+$	581.069	6$^+$	E2		0.0307	α(K)=0.0240 *4*; α(L)=0.00523 *8*; α(M)=0.001190 *17* α(N)=0.000271 *4*; α(O)=3.66×10^{-5} *6*; α(P)=1.303×10^{-6} *19* I(ce(K))=0.006 *2*. Mult.: 2002Ad34 report M1,E2. Placement requires E2.
390.33 *6*	0.152 *14*	2661.522	2$^-$	2271.253	2$^-$	M1,E2		0.043 *14*	α(K)=0.035 *13*; α(L)=0.0059 *9*; α(M)=0.00132 *18* α(N)=0.00030 *5*; α(O)=4.3×10^{-5} *8*; α(P)=2.09×10^{-6} *84* I(ce(K))=0.0035 *9*.
392.52 *2*	2.20 *5*	1358.693	2$^-$	966.174	2$^+$	E1+M2	+0.018 *6*	0.00902 *14*	α(K)=0.00765 *12*; α(L)=0.001067 *17*; α(M)=0.000233 *4* α(N)=5.35×10^{-5} *9*; α(O)=7.69×10^{-6} *12*; α(P)=4.13×10^{-7} *7* δ: from ^{160}Tb β^- decay. I(ce(K))=0.017 *3*.
394.5 *4*	0.06 *3*	2297.49	2$^+$	1903.210	3$^+$	[M1,E2]		0.042 *13*	α(K)=0.034 *12*; α(L)=0.0057 *9*; α(M)=0.00128 *18* α(N)=0.00029 *5*; α(O)=4.2×10^{-5} *8*; α(P)=2.04×10^{-6} *81*
^{x}396.23 *5*	0.048 *13*								
400.25 *6*	0.135 *9*	3061.83	1$^+$	2661.522	2$^-$	E1		0.00855	α(K)=0.00726 *11*; α(L)=0.001010 *15*; α(M)=0.000220 *3*

$\gamma(^{160}$Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [b]	Comments
								α(N)=5.06×10^{-5} *7*; α(O)=7.28×10^{-6} *11*; α(P)=3.91×10^{-7} *6* I(ce(K))<0.002.
402.44 *14*	0.072 *12*	2096.896	4$^+$	1694.368	4$^+$	[M1,E2]	0.040 *13*	α(K)=0.033 *12*; α(L)=0.0054 *9*; α(M)=0.00120 *18* α(N)=0.00028 *5*; α(O)=3.9×10^{-5} *8*; α(P)=1.93×10^{-6} *77*
404.7 *4*	0.05 *3*	2021.95	9$^+$	1617.28	7$^+$	E2	0.0268	α(K)=0.0211 *3*; α(L)=0.00446 *7*; α(M)=0.001013 *15* α(N)=0.000231 *4*; α(O)=3.13×10^{-5} *5*; α(P)=1.153×10^{-6} *17*
405.70 *2*	2.56 *6*	1694.368	4$^+$	1288.670	5$^+$	E2	0.0266	α(K)=0.0210 *3*; α(L)=0.00442 *7*; α(M)=0.001005 *14* α(N)=0.000229 *4*; α(O)=3.10×10^{-5} *5*; α(P)=1.145×10^{-6} *16* I(ce(K))=0.054 *12*.
406.7 *3*	0.13 *3*	2194.44	5$^+$	1787.82	6$^-$	E1	0.00824	α(K)=0.00700 *10*; α(L)=0.000972 *14*; α(M)=0.000212 *3* α(N)=4.87×10^{-5} *7*; α(O)=7.01×10^{-6} *10*; α(P)=3.77×10^{-7} *6* I(ce(K))<0.002.
410.9 *1*	0.02 *1*	2861.17	1$^+$	2450.26	1$^-$			
416.56 *6*	0.117 *8*	2556.73	3$^-$,4$^-$,5$^-$	2140.15	(3)			
^{x}419.66 *5*	0.025 *5*							
^{x}420.6 *3*	0.06 *3*							
421.50 *8*	0.225 *20*	2630.24	(1,2)$^+$	2208.79	(2)$^-$	E1	0.00758	α(K)=0.00644 *9*; α(L)=0.000893 *13*; α(M)=0.000195 *3* α(N)=4.47×10^{-5} *7*; α(O)=6.44×10^{-6} *9*; α(P)=3.48×10^{-7} *5* I(ce(K))<0.003.
^{x}422.7 *1*	0.03 *1*							
425.2 *2*	0.04 *1*	2696.43	2$^-$,3$^-$	2271.253	2$^-$	[M1,E2]	0.034 *11*	α(K)=0.0283 *99*; α(L)=0.0046 *9*; α(M)=0.00103 *17* α(N)=0.00024 *4*; α(O)=3.4×10^{-5} *7*; α(P)=1.68×10^{-6} *67*
426.5 *2*	0.04 *1*	2697.826	2$^+$	2271.253	2$^-$			
431.15[e] *25*	0.03[e] *1*	1586.748	5$^-$	1155.851	4$^+$	[E1]	0.00719	α(K)=0.00611 *9*; α(L)=0.000846 *12*; α(M)=0.000184 *3* α(N)=4.24×10^{-5} *6*; α(O)=6.11×10^{-6} *9*; α(P)=3.31×10^{-7} *5* I_γ: Iγ=0.059 *14* for the composite peak.
431.15[ef] *25*	0.02[e] *1*	2084.814	(1,2)$^+$	1653.66				I_γ: Iγ=0.059 *14* for the composite peak.
431.15[e] *25*	0.02[e] *1*	3061.83	1$^+$	2630.714	1$^-$			I_γ: Iγ=0.059 *14* for the composite peak.
432.80 *4*	0.030 *16*	1398.969	3$^-$	966.174	2$^+$			
433.00 *7*	0.205 *13*	2704.230	2$^-$,3$^-$	2271.253	2$^-$	M1,E2	0.033 *11*	α(K)=0.0270 *94*; α(L)=0.0044 *8*; α(M)=0.00097 *17* α(N)=0.00022 *4*; α(O)=3.2×10^{-5} *7*; α(P)=1.60×10^{-6} *63* I(ce(K))=0.006 *1*.
443.91 *16*	0.054 *16*	2138.21	2$^+$	1694.368	4$^+$	[E2]	0.0208	α(K)=0.01653 *24*; α(L)=0.00332 *5*; α(M)=0.000750 *11* α(N)=0.0001713 *24*; α(O)=2.34×10^{-5} *4*; α(P)=9.14×10^{-7} *13*
^{x}444.24 *4*	0.021 *7*							
445.99[e] *6*	0.44[e] *2*	1804.675	1$^+$	1358.693	2$^-$	E1	0.00665	α(K)=0.00565 *8*; α(L)=0.000782 *11*; α(M)=0.0001703 *24* α(N)=3.92×10^{-5} *6*; α(O)=5.64×10^{-6} *8*; α(P)=3.07×10^{-7} *5* I_γ: Iγ=0.68 *5* for the composite peak. I(ce(K))=0.0038 *9*.
445.99[e] *6*	0.24[e] *2*	2096.896	4$^+$	1650.882	4$^-$,5$^-$	[E1]	0.00665	α(K)=0.00565 *8*; α(L)=0.000782 *11*; α(M)=0.0001703 *24* α(N)=3.92×10^{-5} *6*; α(O)=5.64×10^{-6} *8*; α(P)=3.07×10^{-7} *5* I_γ: Iγ=0.68 *5* for the composite peak.

$^{160}_{66}$Dy$_{94}$-19

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	δ [&c]	α [b]	Comments
448.05[e] 9	0.10[e] 5	1603.79	4^+	1155.851	4^+	E2		0.0203	α(K)=0.01614 23; α(L)=0.00322 5; α(M)=0.000728 11 α(N)=0.0001664 24; α(O)=2.27×10^{-5} 4; α(P)=8.93×10^{-7} 13 I_γ: Iγ=0.17 3 for the composite peak. I(ce(K))=0.0034 9.
448.05[e] 9	0.07[e] 2	2719.02	2^-	2271.253	2^-	(E2)		0.0203	α(K)=0.01614 23; α(L)=0.00322 5; α(M)=0.000728 11 α(N)=0.0001664 24; α(O)=2.27×10^{-5} 4; α(P)=8.93×10^{-7} 13 E_γ: poor fit. Level-energy difference=447.77. Eγ=448.05 for doublet. I_γ: Iγ=0.17 3 for the composite peak.
449.5 3	0.035 12	2143.74	4^-	1694.368	4^+				
452.0 3	0.033 12	1607.86	4^+	1155.851	4^+	E2		0.0198	α(K)=0.01577 23; α(L)=0.00313 5; α(M)=0.000708 10 α(N)=0.0001618 23; α(O)=2.21×10^{-5} 4; α(P)=8.74×10^{-7} 13 I(ce(K))<0.001.
453.7 3	0.05 3	2720.58	3^-	2266.98	3^-	[M1,E2]		0.0289 93	α(K)=0.0239 84; α(L)=0.0038 8; α(M)=0.00085 16 α(N)=0.00020 4; α(O)=2.8×10^{-5} 7; α(P)=1.42×10^{-6} 56
454.7 3	0.05 3	2383.70	6^-	1929.186	6^+				
458.5 1	0.03 1	2729.84	2^-	2271.253	2^-	[M1,E2]		0.0281 91	α(K)=0.0233 81; α(L)=0.0037 8; α(M)=0.00083 15 α(N)=0.00019 4; α(O)=2.7×10^{-5} 6; α(P)=1.38×10^{-6} 54
459.9 1	0.35 5	2556.73	$3^-,4^-,5^-$	2096.896	4^+	E1		0.00620	α(K)=0.00527 8; α(L)=0.000728 11; α(M)=0.0001585 23 α(N)=3.65×10^{-5} 6; α(O)=5.26×10^{-6} 8; α(P)=2.86×10^{-7} 4 I(ce(K))=0.0020 5.
[x]461.0 1	0.15 6					E2		0.0188	α(K)=0.01499 21; α(L)=0.00295 5; α(M)=0.000665 10 α(N)=0.0001521 22; α(O)=2.08×10^{-5} 3; α(P)=8.32×10^{-7} 12 I(ce(K))=0.0020 5.
[x]465.18 5	0.038 9								
470.0 2	0.37 4	1756.920	2^+	1286.721	3^-	E1		0.00590	α(K)=0.00502 7; α(L)=0.000692 10; α(M)=0.0001507 22 α(N)=3.47×10^{-5} 5; α(O)=5.00×10^{-6} 7; α(P)=2.73×10^{-7} 4 I(ce(K))=0.0019 4.
471.0[e] 3	0.21[e] 3	1756.920	2^+	1285.607	1^-	E1		0.00587	α(K)=0.00500 7; α(L)=0.000689 10; α(M)=0.0001500 22 α(N)=3.45×10^{-5} 5; α(O)=4.98×10^{-6} 7; α(P)=2.72×10^{-7} 4 I_γ: Iγ=0.27 5 for the composite peak. I(ce(K))<0.0014.
471.0[e] 3	0.10[e] 5	1869.518	2^+	1398.969	3^-	[E1]		0.00587	α(K)=0.00500 7; α(L)=0.000689 10; α(M)=0.0001500 22 α(N)=3.45×10^{-5} 5; α(O)=4.98×10^{-6} 7; α(P)=2.72×10^{-7} 4 I_γ: Iγ=0.27 5 for the composite peak.
[x]473.98 4	0.02 1								
477.2 3	0.05 2	2130.586	3^-	1653.66					
479.5 3	0.05 2	2130.586	3^-	1650.882	$4^-,5^-$	[E2]		0.01691	α(K)=0.01356 20; α(L)=0.00261 4; α(M)=0.000589 9 α(N)=0.0001346 19; α(O)=1.85×10^{-5} 3; α(P)=7.56×10^{-7} 11
484.62 9	0.03 1	2138.21	2^+	1653.66					
486.00 14	0.21 3	1535.155	4^-	1049.113	3^+	E1+M2	+0.04 3	0.0056 4	α(K)=0.0048 3; α(L)=0.00066 5; α(M)=0.000144 10

γ(^{160}Dy) (continued)

E_γ[†‡]	I_γ[†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[@]	α[b]	$I_{(\gamma+ce)}$[†]	Comments
									α(N)=3.32×10^{-5} 24; α(O)=4.8×10^{-6} 4; α(P)=2.63×10^{-7} 19 δ: from ^{160}Tb β^- decay. I(ce(K))=0.0012 4.
487.0 3	0.09 3	2130.586	3$^-$	1643.28	3$^-$	[M1,E2]	0.0240 78		α(K)=0.0200 70; α(L)=0.0032 7; α(M)=0.00070 14 α(N)=0.00016 4; α(O)=2.3×10^{-5} 6; α(P)=1.19×10^{-6} 46
488.7 3	0.052 20	2697.826	2$^+$	2208.79	(2)$^-$				
490.62[e] 4	0.15[e] 4	1456.757	0$^+$	966.174	2$^+$	[E2]	0.01592		α(K)=0.01279 18; α(L)=0.00243 4; α(M)=0.000548 8 α(N)=0.0001255 18; α(O)=1.728×10^{-5} 25; α(P)=7.15×10^{-7} 10 I_γ: Iγ=0.72 4 for the composite peak. I(ce(K))=0.014 4.
490.62[e] 4	0.5[e] 1	1929.186	6$^+$	1438.57	6$^+$	E2,M1	0.0236 77		α(K)=0.0196 68; α(L)=0.0031 7; α(M)=0.00068 14 α(N)=0.00016 4; α(O)=2.3×10^{-5} 6; α(P)=1.16×10^{-6} 45 I_γ: Iγ=0.72 4 for the composite peak.
490.62[e] 4	0.10[e] 5	2077.37	3$^-$	1586.748	5$^-$	[E2]	0.01592		α(K)=0.01279 18; α(L)=0.00243 4; α(M)=0.000548 8 α(N)=0.0001255 18; α(O)=1.728×10^{-5} 25; α(P)=7.15×10^{-7} 10 I_γ: Iγ=0.72 4 for the composite peak.
492.50 4	0.67 4	2630.714	1$^-$	2138.21	2$^+$	E1	0.00531		α(K)=0.00452 7; α(L)=0.000621 9; α(M)=0.0001353 19 α(N)=3.11×10^{-5} 5; α(O)=4.50×10^{-6} 7; α(P)=2.46×10^{-7} 4 I(ce(K))=0.0031 8.
495.03 3	0.81 4	1650.882	4$^-$,5$^-$	1155.851	4$^+$	E1	0.00525		α(K)=0.00447 7; α(L)=0.000614 9; α(M)=0.0001337 19 α(N)=3.08×10^{-5} 5; α(O)=4.44×10^{-6} 7; α(P)=2.44×10^{-7} 4 I(ce(K))=0.0037 8.
495.4	0.05 2	2112.70	8$^-$	1617.28	7$^+$				E_γ: from level-energy difference. Eγ=485.5 in tables 1 and 2 of 2002Ad34 seems to be a misprint.
495.6		1952.31	0$^+$	1456.757	0$^+$	(E0)		0.0045	E_γ,Mult.: from 2009Ad04. $I_{(\gamma+ce)}$: calculated by evaluator based on measured I(ce(K)) and ratio of electronic factors Ω_K(E0)\Ω(E0)=0.874. I(ce(K))=0.0039 (2009Ad04).
498.4 3	0.06 3	2112.70	8$^-$	1613.99	7$^-$	[M1,E2]	0.0226 74		α(K)=0.0188 66; α(L)=0.0030 7; α(M)=0.00065 14 α(N)=0.00015 4; α(O)=2.2×10^{-5} 6; α(P)=1.12×10^{-6} 44
499.3 3	0.05 2	1787.82	6$^-$	1288.670	5$^+$				
504.15[e] 20	0.07[e] 2	1903.210	3$^+$	1398.969	3$^-$	(E1)	0.00504		α(K)=0.00429 6; α(L)=0.000589 9; α(M)=0.0001283 18 α(N)=2.95×10^{-5} 5; α(O)=4.26×10^{-6} 6; α(P)=2.34×10^{-7} 4 I_γ: Iγ=0.14 3 for the composite peak. I(ce(K))=<0.001.
504.15[e] 20	0.05[e] 2	2630.714	1$^-$	2126.37	3$^-$	[E2]	0.01483		α(K)=0.01195 17; α(L)=0.00224 4; α(M)=0.000505 7 α(N)=0.0001155 17; α(O)=1.595×10^{-5} 23; α(P)=6.69×10^{-7} 10 I_γ: Iγ=0.14 3 for the composite peak.
504.15[e] 20	0.05[e] 2	2634.74		2130.586	3$^-$		0.00508		α=0.00508; α(K)=0.00430 13; α(L)=0.00059 2 I_γ: Iγ=0.14 3 for the composite peak.
506.29 19	0.50 5	2574.38	1$^-$,2$^-$,3$^-$	2068.08	1$^-$	M1,E2	0.0217 71		α(K)=0.0181 63; α(L)=0.0028 7; α(M)=0.00063 13 α(N)=0.00014 3; α(O)=2.1×10^{-5} 5; α(P)=1.08×10^{-6} 42 I(ce(K))=0.009 2.

From ENSDF

$^{160}_{66}Dy_{94}$-21

γ(^{160}Dy) (continued)

Eγ[†‡]	Iγ[†#]	Ei(level)	J^π_i	E_f	J^π_f	Mult.[@]	δ[&c]	α[b]	Comments
510.8 *1*	0.20 *5*	1869.518	2+	1358.693	2−				
513.51 *4*	8.0 *3*	1802.233	5+	1288.670	5+	E2		0.01414	α(K)=0.01141 *16*; α(L)=0.00212 *3*; α(M)=0.000478 *7* α(N)=0.0001093 *16*; α(O)=1.511×10^{-5} *22*; α(P)=6.40×10^{-7} *9* I(ce(K))=0.092 *9*.
516.86 *11*	0.180 *19*	1903.210	3+	1386.455	4−				
519.12 *3*	1.62 *4*	1804.675	1+	1285.607	1−	E1		0.00473	α(K)=0.00402 *6*; α(L)=0.000551 *8*; α(M)=0.0001200 *17* α(N)=2.76×10^{-5} *4*; α(O)=3.99×10^{-6} *6*; α(P)=2.20×10^{-7} *3* I(ce(K))=0.007 *2*.
521.50 *7*	0.151 *22*	2661.522	2−	2140.15	(3)				
ˣ524.19 *20*	0.07 *3*								
ˣ528.61 *25*	0.05 *3*								
538.54 *2*	28.5 *6*	1694.368	4+	1155.851	4+	E2+M1	+11.8 *+44−20*	0.01261 *19*	α(K)=0.01023 *15*; α(L)=0.00186 *3*; α(M)=0.000416 *6* α(N)=9.53×10^{-5} *14*; α(O)=1.324×10^{-5} *19*; α(P)=5.77×10^{-7} *9* δ: from 1994SlZZ. 1998Kr21 report δ=+12.1 *+1413−60*. I(ce(K))=0.29 *4*.
539.92 *15*	0.99 *17*	1804.675	1+	1264.767	2−	E1		0.00433	α(K)=0.00369 *6*; α(L)=0.000505 *7*; α(M)=0.0001099 *16* α(N)=2.53×10^{-5} *4*; α(O)=3.66×10^{-6} *6*; α(P)=2.02×10^{-7} *3* I(ce(K))=0.004 *1*.
541.9[e] *3*	0.03[e] *1*	2077.37	3−	1535.155	4−	[E2,M1]		0.0183 *60*	α(K)=0.0152 *53*; α(L)=0.0024 *6*; α(M)=0.00052 *12* α(N)=0.00012 *3*; α(O)=1.7×10^{-5} *5*; α(P)=9.1×10^{-7} *35* Iγ: Iγ=0.24 *7* for the composite peak.
541.9[e] *3*	0.22[e] *2*	2630.714	1−	2088.85	1−,2−,3−	E2,M1		0.0183 *60*	α(K)=0.0152 *53*; α(L)=0.0024 *6*; α(M)=0.00052 *12* α(N)=0.00012 *3*; α(O)=1.7×10^{-5} *5*; α(P)=9.1×10^{-7} *35* Iγ: Iγ=0.24 *7* for the composite peak. I(ce(K))=0.003 *1*.
544.59 *8*	0.402 *24*	1903.210	3+	1358.693	2−	E1		0.00425	α(K)=0.00362 *5*; α(L)=0.000495 *7*; α(M)=0.0001078 *15* α(N)=2.48×10^{-5} *4*; α(O)=3.59×10^{-6} *5*; α(P)=1.98×10^{-7} *3* I(ce(K))=0.0015 *8*.
545.94 *4*	1.48 *9*	2630.714	1−	2084.814	(1,2)+	E1		0.00423	α(K)=0.00360 *5*; α(L)=0.000493 *7*; α(M)=0.0001072 *15* α(N)=2.47×10^{-5} *4*; α(O)=3.57×10^{-6} *5*; α(P)=1.97×10^{-7} *3* I(ce(K))=0.0054 *9*.
549.63 *9*	0.048 *15*	2068.08	1−	1518.421	2+				
552.36 *8*	0.083 *14*	1518.421	2+	966.174	2+	[M1,E2]		0.0174 *57*	α(K)=0.0145 *50*; α(L)=0.0022 *6*; α(M)=0.00049 *11* α(N)=0.00011 *3*; α(O)=1.64×10^{-5} *42*; α(P)=8.6×10^{-7} *33*
554.59 *7*	0.117 *14*	1603.79	4+	1049.113	3+	E2,M1		0.0172 *56*	α(K)=0.0144 *50*; α(L)=0.0022 *6*; α(M)=0.00049 *11* α(N)=0.00011 *3*; α(O)=1.62×10^{-5} *41*; α(P)=8.6×10^{-7} *33* I(ce(K))=0.0018 *5*.

From ENSDF

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [b]	Comments
556.23 *4*	0.026 *6*	1522.34	4^+	966.174	2^+	[E2]	0.01154	α(K)=0.00938 *14*; α(L)=0.001683 *24*; α(M)=0.000377 *6* α(N)=8.64×10^{-5} *13*; α(O)=1.203×10^{-5} *17*; α(P)=5.30×10^{-7} *8*
558.8 *2*	0.065 *9*	1607.86	4^+	1049.113	3^+	[M1,E2]	0.0169 *55*	α(K)=0.0141 *49*; α(L)=0.0022 *5*; α(M)=0.00048 *11* α(N)=0.00011 *3*; α(O)=1.59×10^{-5} *41*; α(P)=8.4×10^{-7} *32*
559.5 *3*	0.073 *8*	2697.826	2^+	2138.21	2^+	[M1,E2]	0.0168 *55*	α(K)=0.0141 *49*; α(L)=0.0022 *5*; α(M)=0.00048 *11* α(N)=0.00011 *3*; α(O)=1.58×10^{-5} *40*; α(P)=8.4×10^{-7} *32*
562.59 *15*	0.091 *11*	2630.714	1^-	2068.08	1^-	[M1,E2]	0.0166 *54*	α(K)=0.0139 *48*; α(L)=0.0021 *5*; α(M)=0.00047 *11* α(N)=0.000108 *25*; α(O)=1.56×10^{-5} *40*; α(P)=8.3×10^{-7} *31*
564.48 *25*	0.055 *16*	1720.43	6^+	1155.851	4^+	[E2]	0.01112	α(K)=0.00905 *13*; α(L)=0.001614 *23*; α(M)=0.000362 *5* α(N)=8.28×10^{-5} *12*; α(O)=1.154×10^{-5} *17*; α(P)=5.12×10^{-7} *8*
567.36 *10*	0.126 *25*	2697.826	2^+	2130.586	3^-			
570.21 *13*	0.077 *7*	2372.31	6^-	1802.233	5^+			
572.63 *4*	0.36 *3*	2661.522	2^-	2088.85	$1^-,2^-,3^-$	E2,M1	0.0159 *52*	α(K)=0.0133 *46*; α(L)=0.0020 *5*; α(M)=0.00045 *11* α(N)=0.000103 *24*; α(O)=1.49×10^{-5} *38*; α(P)=7.9×10^{-7} *30* I(ce(K))=0.004 *1*.
574.73[e] *5*	0.4[e] *1*	1155.851	4^+	581.069	6^+	E2	0.01064	α(K)=0.00867 *13*; α(L)=0.001534 *22*; α(M)=0.000343 *5* α(N)=7.87×10^{-5} *11*; α(O)=1.098×10^{-5} *16*; α(P)=4.91×10^{-7} *7* I(ce(K))=0.0054 *9*. I_γ: Iγ=0.600 *13* for the composite peak.
574.73[e] *5*	0.20[e] *5*	2701.048	1^-	2126.37	3^-	E2	0.01064	α(K)=0.00867 *13*; α(L)=0.001534 *22*; α(M)=0.000343 *5* α(N)=7.87×10^{-5} *11*; α(O)=1.098×10^{-5} *16*; α(P)=4.91×10^{-7} *7*
576.58 *13*	0.45 *4*	2661.522	2^-	2084.814	$(1,2)^+$	E1	0.00376	α(K)=0.00320 *5*; α(L)=0.000436 *7*; α(M)=9.50×10^{-5} *14* α(N)=2.19×10^{-5} *3*; α(O)=3.17×10^{-6} *5*; α(P)=1.758×10^{-7} *25* I(ce(K))=0.0015 *5*.
577.79 *13*	0.22 *3*	2704.230	$2^-,3^-$	2126.37	3^-	[M1,E2]	0.0155 *51*	α(K)=0.0130 *45*; α(L)=0.0020 *5*; α(M)=0.00044 *10* α(N)=0.000101 *24*; α(O)=1.45×10^{-5} *38*; α(P)=7.7×10^{-7} *29*
580.2 *1*	0.021 *4*	2187.00	$4^+,5^+,6^+$	1606.83	6^+			
580.83 *20*	0.045 *16*	2450.26	1^-	1869.518	2^+			
582.70 *16*	0.41 *6*	1869.518	2^+	1286.721	3^-	E1	0.00367	α(K)=0.00313 *5*; α(L)=0.000426 *6*; α(M)=9.28×10^{-5} *13* α(N)=2.14×10^{-5} *3*; α(O)=3.10×10^{-6} *5*; α(P)=1.720×10^{-7} *24* I(ce(K))=0.0013 *4*.
584.04[e] *17*	0.10[e] *4*	1869.518	2^+	1285.607	1^-			I_γ: Iγ=0.20 *4* for the composite peak.
584.04[e] *17*	0.10[e] *5*	2661.522	2^-	2077.37	3^-	[M1,E2]	0.0151 *49*	α(K)=0.0127 *44*; α(L)=0.0019 *5*; α(M)=0.00043 *10* α(N)=9.8×10^{-5} *23*; α(O)=1.41×10^{-5} *37*; α(P)=7.5×10^{-7} *28* I_γ: Iγ=0.20 *4* for the composite peak.
[x]588.4 *1*	0.03 *2*							
593.48 *15*	0.053 *13*	2661.522	2^-	2068.08	1^-	[M1,E2]	0.0145 *47*	α(K)=0.0122 *42*; α(L)=0.0018 *5*; α(M)=0.00041 *10* α(N)=9.4×10^{-5} *23*; α(O)=1.36×10^{-5} *35*; α(P)=7.2×10^{-7} *27*
594.5[f]	<0.03	681.3?	(0^+)	86.789	2^+	[E2]	0.00979	α(K)=0.00800 *12*; α(L)=0.001395 *20*; α(M)=0.000312 *5* α(N)=7.15×10^{-5} *10*; α(O)=1.000×10^{-5} *14*; α(P)=4.54×10^{-7} *7* I_γ: estimate from 2009Ad04.
595.32[e] *10*	0.05[e] *2*	2084.814	$(1,2)^+$	1489.503	1^-			I_γ: Iγ=0.140 *24* for the composite peak.

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [b]	Comments
595.32 [e] *10*	0.09 [e] *3*	2130.586	3⁻	1535.155	4⁻	[M1,E2]	0.0144 *47*	α(K)=0.0121 *41*; α(L)=0.0018 *5*; α(M)=0.00040 *10* α(N)=9.3×10^{-5} *22*; α(O)=1.34×10^{-5} *35*; α(P)=7.2×10^{-7} *27* I_γ: Iγ=0.140 *24* for the composite peak.
600.2 *1*	0.05 *2*	2469.51	3⁻	1869.518	2⁺			
ˣ601.35 *6*	0.06 *2*							
ˣ602.6 *1*	0.05 *2*							
605.0 *3*	0.068 *13*	1869.518	2⁺	1264.767	2⁻			
606.0 *3*	0.03 *2*	1655.00	2⁺,3⁺,4⁺	1049.113	3⁺			
607.00 *9*	0.173 *17*	2697.826	2⁺	2090.88	2⁻,3⁻			
611.53 *8*	0.184 *16*	2696.43	2⁻,3⁻	2084.814	(1,2)⁺	(E1)	0.00332	α(K)=0.00283 *4*; α(L)=0.000384 *6*; α(M)=8.35×10^{-5} *12* α(N)=1.92×10^{-5} *3*; α(O)=2.79×10^{-6} *4*; α(P)=1.555×10^{-7} *22* I(ce(K))<0.0008.
613.28 *6*	0.251 *17*	2704.230	2⁻,3⁻	2090.88	2⁻,3⁻			
616.18 *10*	0.105 *15*	2701.048	1⁻	2084.814	(1,2)⁺			
616.2 [f]		703.0?	(0⁺)	86.789	2⁺	[E2]	0.00897	α(K)=0.00735 *11*; α(L)=0.001264 *18*; α(M)=0.000282 *4* α(N)=6.47×10^{-5} *9*; α(O)=9.07×10^{-6} *13*; α(P)=4.18×10^{-7} *6* γ transition postulated by 2010BoZZ (unobserved member of doublet).
619.4 *2*	0.08 *3*	2704.230	2⁻,3⁻	2084.814	(1,2)⁺			
621.24 *5*	0.679 *14*	2630.714	1⁻	2009.535	1⁻,2⁻	E2	0.00880	α(K)=0.00721 *10*; α(L)=0.001236 *18*; α(M)=0.000276 *4* α(N)=6.33×10^{-5} *9*; α(O)=8.88×10^{-6} *13*; α(P)=4.10×10^{-7} *6* I(ce(K))=0.006 *2*.
623.69 *24*	0.058 *19*	2701.048	1⁻	2077.37	3⁻			
626.57 *10*	0.102 *15*	2757.13		2130.586	3⁻			
628.95 *17*	0.06 *2*	1784.696	4⁻	1155.851	4⁺			
629.7 *1*	0.08 *3*	2697.826	2⁺	2068.08	1⁻			
ˣ630.3 *1*	0.03 *1*							
632.9 [d] *6*	0.04 [d] *3*	2701.048	1⁻	2068.08	1⁻			
632.9 [d] *6*	0.04 [d] *3*	2717.229	2⁺	2084.814	(1,2)⁺			
634.2 *1*	0.03 *2*	2503.80	1⁺,2⁺	1869.518	2⁺			
635.6 *2*	0.04 *2*	2074.18	7⁺	1438.57	6⁺			
636.3 *3*	0.15 *5*	2704.230	2⁻,3⁻	2068.08	1⁻			
637.8 *4*	0.15 *5*	1603.79	4⁺	966.174	2⁺			
640.1 *1*	0.02 *1*	1606.83	6⁺	966.75	8⁺	(E2)	0.00819	α(K)=0.00673 *10*; α(L)=0.001140 *16*; α(M)=0.000254 *4* α(N)=5.83×10^{-5} *9*; α(O)=8.20×10^{-6} *12*; α(P)=3.83×10^{-7} *6*
640.61 *6*	0.9 *2*	1929.186	6⁺	1288.670	5⁺	(E2)	0.00817	α(K)=0.00671 *10*; α(L)=0.001137 *16*; α(M)=0.000254 *4* α(N)=5.82×10^{-5} *9*; α(O)=8.18×10^{-6} *12*; α(P)=3.83×10^{-7} *6* I(ce(K))=0.008 *2* for 640.1+640.6+641.1+641.7+642.9.
641.1 *1*	0.20 *5*	2130.586	3⁻	1489.503	1⁻	(E2)	0.00816	α(K)=0.00670 *10*; α(L)=0.001135 *16*; α(M)=0.000253 *4* α(N)=5.81×10^{-5} *9*; α(O)=8.16×10^{-6} *12*; α(P)=3.82×10^{-7} *6*
641.7 *1*	0.10 *5*	1607.86	4⁺	966.174	2⁺	(E2)	0.00814	α(K)=0.00669 *10*; α(L)=0.001132 *16*; α(M)=0.000252 *4* α(N)=5.79×10^{-5} *9*; α(O)=8.14×10^{-6} *12*; α(P)=3.81×10^{-7} *6*

γ(^{160}Dy) (continued)

Eγ[†‡]	Iγ[†#]	Ei(level)	J_i^π	E_f	J_f^π	Mult.[@]	δ[&c]	α[b]	$I_{(\gamma+ce)}$[†]	Comments
642.9 *1*	0.03 *1*	2851.73	1⁻	2208.79	(2)⁻	(E2)		0.00810		α(K)=0.00666 *10*; α(L)=0.001126 *16*; α(M)=0.000251 *4* α(N)=5.76×10⁻⁵ *8*; α(O)=8.10×10⁻⁶ *12*; α(P)=3.79×10⁻⁷ *6*
645.24 *3*	102.7 *26*	1694.368	4⁺	1049.113	3⁺	E2+M1	−4.38 *22*	0.00841 *13*		α(K)=0.00693 *11*; α(L)=0.001152 *17*; α(M)=0.000256 *4* α(N)=5.89×10⁻⁵ *9*; α(O)=8.31×10⁻⁶ *12*; α(P)=3.98×10⁻⁷ *6* δ: from 1994SlZZ. I(ce(K))=0.71 *7*.
646.40 *8*	17.6 *24*	1802.233	5⁺	1155.851	4⁺	E2		0.00800		α(K)=0.00658 *10*; α(L)=0.001110 *16*; α(M)=0.000247 *4* α(N)=5.68×10⁻⁵ *8*; α(O)=7.99×10⁻⁶ *12*; α(P)=3.75×10⁻⁷ *6* I(ce(K))=0.12 *1*.
647.3 *2*	0.010 *5*	1613.99	7⁻	966.75	8⁺					
650.5 *1*	0.06 *1*	1617.28	7⁺	966.75	8⁺	E2+M1	5 *8*	0.0082 *71*		α(K)=0.0067 *63*; α(L)=0.00112 *70*; α(M)=2.5×10⁻⁴ *15* α(N)=5.7×10⁻⁵ *35*; α(O)=8.1×10⁻⁶ *55*; α(P)=3.9×10⁻⁷ *41*
651.9 *1*	0.06 *1*	2661.522	2⁻	2009.535	1⁻,2⁻					
654.71 *5*	0.153 *21*	2704.230	2⁻,3⁻	2049.51	2⁺,3					
658.7 *3*	0.075 *15*	2096.896	4⁺	1438.57	6⁺					
665.3[e] *5*	0.10[e] *3*	2469.51	3⁻	1804.675	1⁺	[M2]		0.0409		α(K)=0.0340 *5*; α(L)=0.00535 *8*; α(M)=0.001187 *17* α(N)=0.000275 *4*; α(O)=4.01×10⁻⁵ *6*; α(P)=2.26×10⁻⁶ *4* Iγ: Iγ=0.37 *3* for the composite peak. I(ce(K))=0.006 *2* for 665.3+666.7.
665.3[e] *5*	0.27[e] *3*	2674.720	1⁻	2009.535	1⁻,2⁻	M1,E2		0.0110 *35*		α(K)=0.0092 *31*; α(L)=0.00137 *35*; α(M)=0.00030 *8* α(N)=7.0×10⁻⁵ *18*; α(O)=1.01×10⁻⁵ *27*; α(P)=5.5×10⁻⁷ *20* Iγ: Iγ=0.37 *3* for the composite peak.
666.7[e] *3*	0.03[e] *2*	1952.31	0⁺	1285.607	1⁻					Iγ: Iγ=0.12 *5* for the composite peak.
666.7[e] *3*	0.09[e] *2*	2734.720	1⁻	2068.08	1⁻					Iγ: Iγ=0.12 *5* for the composite peak.
669.1[df] *2*	0.047[d] *19*	2068.08	1⁻	1398.969	3⁻					
669.1[df] *2*	0.047[d] *19*	2077.37	3⁻	1408.47	5⁻					
672.3		1952.31	0⁺	1279.945	0⁺	(E0)			0.0037	Eγ,Mult.: from 2009Ad04. I(ce(K))=0.002 (2009Ad04); I(ce(K))=0.0043 (2006Bo37). $I_{(\gamma+ce)}$: calculated by evaluator based on

γ(^{160}Dy) (continued)

E_γ[†‡]	I_γ[†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[@]	α[b]	$I_{(\gamma+ce)}$[†]	Comments
									measured I(ce(K))= 0.0032 (mean value of the measured values) and ratio of electronic factors Ω_K(E0)\Ω(E0)=0.875.
673.09 *7*	0.27 *3*	2367.47	$2^+,3^+,4^+$	1694.368	4^+				I(ce(K))=0.0079 (2006Bo37).
678.30[e] *16*	0.010[e] *5*	2077.37	3^-	1398.969	3^-				I_γ: Iγ=0.052 *17* for the composite peak.
678.30[e] *16*	0.04[e] *2*	2630.714	1^-	1952.31	0^+				I_γ: Iγ=0.052 *17* for the composite peak.
681.3[f]		681.3?	(0^+)	0.0	0^+	(E0)		0.0027	E_γ,Mult.: K-shell conversion electrons observed by 2009Ad04, with no observed γ ray that could produce the K-shell conversion electrons. Previously 2008VaZU argued that they found (by $\gamma\gamma$ coin) a 682 keV doublet with the more intense component the already known 682.3 γ of relative Iγ=21.0 *10* (in 2008VaZU units), α(K)exp=0.0065 *7*, and α(K)(E2)$_{theor}$=0.00581, placed at 966.2, 2^+ level; and the weaker 681.5 *5* keV γ of relative Iγ=2.0 *5* that they placed at 2096.9, 4^+ level, that would exclude the E0 assignment of 2009Ad04. The explicit non-observance of such weak component by 2009Ad04, as well as their theoretical calculations (by interacting vector boson model) showing possible E0 transition close to this energy, seem to justify the E0 assignment adopted here. However considering the pros and cons from 2008VaZU and 2009Ad04 we consider this γ ray and its placement as tentative. $I_{(\gamma+ce)}$: calculated by evaluator based on measured I(ce(K)) and ratio of electronic factors Ω_K(E0)\Ω(E0)=0.875. I(ce(K))=0.0024 (2009Ad04). B(E0)/B(E2)>0.3 (2009Ad04).
682.34 *2*	2.59 *8*	966.174	2^+	283.820	4^+	E2	0.00704		α(K)=0.00581 *9*; α(L)=0.000962 *14*; α(M)=0.000214 *3* α(N)=4.91×10^{-5} *7*; α(O)=6.94×10^{-6} *10*; α(P)=3.32×10^{-7} *5* I(ce(K))=0.015 *2*; I(ce(K))=0.0167 (2006Bo37).
688.37[e] *9*	0.010[e] *5*	2096.896	4^+	1408.47	5^-				I_γ: Iγ=0.282 *8* for the composite peak.
688.37[e] *9*	0.28[e] *1*	2697.826	2^+	2009.535	$1^-,2^-$				I_γ: Iγ=0.282 *8* for the composite peak.
691.49 *2*	0.587 *15*	2701.048	1^-	2009.535	$1^-,2^-$	M1,E2	0.0100 *32*		α(K)=0.0084 *28*; α(L)=0.00124 *32*; α(M)=0.00027 *7* α(N)=6.3×10^{-5} *16*; α(O)=9.1×10^{-6} *25*; α(P)=5.0×10^{-7} *18* I(ce(K))=0.0050 *15*.
698.1 *4*	0.06 *3*	2096.896	4^+	1398.969	3^-				
699.9[e] *4*	0.02[e] *1*	2602.67	$1^-,2^-$	1903.210	3^+				I_γ: Iγ=0.09 *4* for the composite peak.
699.9[e] *4*	0.08[e] *3*	2767.70	1^-	2068.08	1^-				I_γ: Iγ=0.09 *4* for the composite peak.
703.0[f]		703.0?	(0^+)	0.0	0^+	(E0)			K-shell electron peak corroborated with no intensities at the corresponding Eγ (2010BoZZ).
707.60 *2*	2.79 *6*	1288.670	5^+	581.069	6^+	E2,M1	0.0094 *30*		α(K)=0.0079 *26*; α(L)=0.00117 *30*; α(M)=0.00026 *7* α(N)=5.9×10^{-5} *15*; α(O)=8.6×10^{-6} *23*; α(P)=4.7×10^{-7} *17* I(ce(K))=0.020 *3*.

$^{160}_{66}$Dy$_{94}$-26

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	δ [&c]	α [b]	Comments
710.5 *3*	0.08 *3*	2096.896	4$^+$	1386.455	4$^-$				
718.70 *9*	0.081 *20*	2077.37	3$^-$	1358.693	2$^-$				
[x]719.8 *1*	0.06 *2*								
722.41 *7*	0.166 *22*	2674.720	1$^-$	1952.31	0$^+$				
728.17 *2*	206 *4*	1694.368	4$^+$	966.174	2$^+$	E2		0.00606	α(K)=0.00502 *7*; α(L)=0.000813 *12*; α(M)=0.000180 *3* α(N)=4.15×10^{-5} *6*; α(O)=5.88×10^{-6} *9*; α(P)=2.88×10^{-7} *4* δ: 1998Kr21 report δ(M3/E2)=−0.002 *30*. 1994SlZZ report δ(M3/E2)=0.023 +*7*−*4*. However, this latter value implies a B(M3) value ≈120 times larger than that allowed by RUL. I(ce(K))=1.04 *10*.
735.69 *25*	0.11 *3*	1784.696	4$^-$	1049.113	3$^+$				
[x]736.5 *5*	0.03 *1*								
737.5 *5*	0.03 *1*	2255.67	1$^+$,2$^+$	1518.421	2$^+$				
740.7 *3*	0.059 *13*	2610.01	2$^+$	1869.518	2$^+$				
745.73 *9*	0.145 *25*	2697.826	2$^+$	1952.31	0$^+$				
[x]747.4 *1*	0.126 *5*								
748.4 *1*	0.11 *3*	2187.00	4$^+$,5$^+$,6$^+$	1438.57	6$^+$				
748.8 *1*	0.45 *3*	2701.048	1$^-$	1952.31	0$^+$				
753.11 *2*	18.4 *4*	1802.233	5$^+$	1049.113	3$^+$	E2		0.00562	α(K)=0.00466 *7*; α(L)=0.000747 *11*; α(M)=0.0001655 *24* α(N)=3.80×10^{-5} *6*; α(O)=5.40×10^{-6} *8*; α(P)=2.67×10^{-7} *4* δ: 1998Kr21 report δ(M3/E2)=+0.016 *34*. I(ce(K))=0.086 *10*.
755.1 *3*	0.02 *1*	2372.31	6$^-$	1617.28	7$^+$				
755.6 *3*	0.03 *1*	2194.44	5$^+$	1438.57	6$^+$				
758.31[e] *3*	0.06[e] *2*	2372.31	6$^-$	1613.99	7$^-$				I_γ: Iγ=2.43 *15* for the composite peak.
758.31[e] *3*	2.43[e] *15*	2661.522	2$^-$	1903.210	3$^+$	E1		0.00213	α(K)=0.00182 *3*; α(L)=0.000244 *4*; α(M)=5.31×10^{-5} *8* α(N)=1.223×10^{-5} *18*; α(O)=1.780×10^{-6} *25*; α(P)=1.008×10^{-7} *15* I_γ: Iγ=2.43 *15* for the composite peak. I(ce(K))=0.005 *1*.
761.23 *6*	1.68 *14*	2630.714	1$^-$	1869.518	2$^+$	E1		0.00211	α(K)=0.00180 *3*; α(L)=0.000242 *4*; α(M)=5.27×10^{-5} *8* α(N)=1.214×10^{-5} *17*; α(O)=1.766×10^{-6} *25*; α(P)=1.000×10^{-7} *14* I(ce(K))=0.004 *1*.
765.30 *2*	25.2 *6*	1049.113	3$^+$	283.820	4$^+$	E2+M1	−13.8 *9*	0.00544 *9*	α(K)=0.00452 *7*; α(L)=0.000720 *11*; α(M)=0.0001595 *24* α(N)=3.67×10^{-5} *6*; α(O)=5.22×10^{-6} *8*; α(P)=2.60×10^{-7} *4* I(ce(K))=0.135 *2*.
766.4 *1*	0.14 *3*	2383.70	6$^-$	1617.28	7$^+$				
772.02 *20*	0.16 *3*	2130.586	3$^-$	1358.693	2$^-$				
773.37 *8*	0.575 *24*	1929.186	6$^+$	1155.851	4$^+$	E2		0.00529	α(K)=0.00440 *7*; α(L)=0.000699 *10*; α(M)=0.0001548 *22* α(N)=3.56×10^{-5} *5*; α(O)=5.06×10^{-6} *7*; α(P)=2.52×10^{-7} *4* I(ce(K))=0.0030 *8*.
776.8[e] *4*	0.02[e] *1*	2126.37	3$^-$	1349.764	2$^+$				I_γ: Iγ=0.035 *10* for the composite peak.

$^{160}_{66}$Dy$_{94}$-27

γ(^{160}Dy) (continued)

Eγ[†‡]	Iγ[†#]	Ei(level)	J^π_i	Ef	J^π_f	Mult.[@]	α[b]	Comments
776.8[e] *4*	0.02[e] *1*	2383.70	6⁻	1606.83	6⁺			Iγ: Iγ=0.035 *10* for the composite peak.
781.86 *10*	0.265 *21*	2271.253	2⁻	1489.503	1⁻			
784.0 *5*	0.04 *2*	2851.73	1⁻	2068.08	1⁻			
[x]788.96 *25*	0.058 *11*							
790.7 *3*	0.05 *2*	2077.37	3⁻	1286.721	3⁻			
791.5 *2*	0.4 *1*	2309.91	2⁺,3,4⁺	1518.421	2⁺			
791.8 *3*	0.03 *1*	2077.37	3⁻	1285.607	1⁻			
792.0 *2*	0.30 *5*	2661.522	2⁻	1869.518	2⁺			
797.82 *18*	0.044 *8*	2602.67	1⁻,2⁻	1804.675	1⁺			
800.9 *1*	0.058 *20*	2704.230	2⁻,3⁻	1903.210	3⁺			
803.48 *22*	0.058 *10*	2068.08	1⁻	1264.767	2⁻			
[x]804.0 *1*	0.06 *2*							
805.15[ef] *12*	0.05[e] *2*	2610.01	2⁺	1804.675	1⁺			Iγ: Iγ=0.110 *21* for the composite peak.
805.15[e] *12*	0.06[e] *2*	2674.720	1⁻	1869.518	2⁺			Iγ: Iγ=0.110 *21* for the composite peak.
808.22 *4*	0.292 *15*	2096.896	4⁺	1288.670	5⁺			
810.10 *12*	0.062 *12*	2096.896	4⁺	1286.721	3⁻			
812.6 *2*	0.03 *2*	2077.37	3⁻	1264.767	2⁻			
814.57 *5*	0.287 *11*	2469.51	3⁻	1655.00	2⁺,3⁺,4⁺			
816.04 *7*	0.204 *11*	2469.51	3⁻	1653.66				
820.39 *8*	0.096 *9*	1869.518	2⁺	1049.113	3⁺			
826.11 *2*	5.92 *18*	2630.714	1⁻	1804.675	1⁺	E1	0.00180	α(K)=0.001535 *22*; α(L)=0.000205 *3*; α(M)=4.46×10⁻⁵ *7* α(N)=1.029×10⁻⁵ *15*; α(O)=1.499×10⁻⁶ *21*; α(P)=8.53×10⁻⁸ *12* Eγ: poor fit; level-energy difference=826.04. I(ce(K))=0.0085 *12*.
827.4 *3*	0.13 *1*	1408.47	5⁻	581.069	6⁺			
828.13[e] *15*	0.14[e] *3*	2697.826	2⁺	1869.518	2⁺			Iγ: Iγ=0.32 *4* for the composite peak.
828.13[e] *15*	0.18[e] *4*	2896.28	2⁺	2068.08	1⁻			Iγ: Iγ=0.32 *4* for the composite peak.
831.53 *4*	0.180 *13*	2701.048	1⁻	1869.518	2⁺			
838.57 *4*	0.302 *20*	1804.675	1⁺	966.174	2⁺	E2,M1	0.0063 *19*	α(K)=0.0053 *17*; α(L)=7.7×10⁻⁴ *20*; α(M)=0.00017 *5* α(N)=3.89×10⁻⁵ *98*; α(O)=5.7×10⁻⁶ *15*; α(P)=3.2×10⁻⁷ *11* I(ce(K))=0.0014 *3*.
840.62 *24*	0.078 *17*	2126.37	3⁻	1285.607	1⁻			
843.95 *7*	0.40 *5*	2130.586	3⁻	1286.721	3⁻	(E2)	0.00436	α(K)=0.00364 *5*; α(L)=0.000564 *8*; α(M)=0.0001247 *18* α(N)=2.87×10⁻⁵ *4*; α(O)=4.10×10⁻⁶ *6*; α(P)=2.10×10⁻⁷ *3* I(ce(K))=0.0015 *3*.
847.7 *2*	0.05 *2*	2717.229	2⁺	1869.518	2⁺			
851.3 *2*	0.052 *25*	2138.21	2⁺	1286.721	3⁻			
855.0 *2*	0.13 *4*	2143.74	4⁻	1288.670	5⁺	E1	1.68×10⁻³	α(K)=0.001436 *21*; α(L)=0.000192 *3*; α(M)=4.17×10⁻⁵ *6* α(N)=9.61×10⁻⁶ *14*; α(O)=1.401×10⁻⁶ *20*; α(P)=7.99×10⁻⁸ *12* I(ce(K))<0.0002.

γ(^{160}Dy) (continued)

Eγ[†‡]	Iγ[†#]	Ei(level)	J^π_i	Ef	J^π_f	Mult.[@]	δ[&c]	α[b]	Comments
856.8 2	1.9 5	2661.522	2−	1804.675	1+	E1		1.67×10−3	α(K)=0.001430 20; α(L)=0.000191 3; α(M)=4.15×10−5 6 α(N)=9.57×10−6 14; α(O)=1.395×10−6 20; α(P)=7.95×10−8 12 I(ce(K))=0.0027 5.
857.6 2	1.9 5	1438.57	6+	581.069	6+	E2+M1	+5 +6−2	0.00435 23	α(K)=0.00364 20; α(L)=0.000557 24; α(M)=0.000123 6 α(N)=2.83×10−5 12; α(O)=4.06×10−6 19; α(P)=2.10×10−7 13 I(ce(K))=0.0066 12.
860.3 3	0.042 18	2729.84	2−	1869.518	2+				
862.30 12	0.19 2	2556.73	3−,4−,5−	1694.368	4+				
865.82 6	0.236 21	2130.586	3−	1264.767	2−				
870.0 1	0.16 6	2674.720	1−	1804.675	1+				
872.02 2	35.1 10	1155.851	4+	283.820	4+	E2+M1	+5.0 +20−11	0.00419 10	α(K)=0.00351 9; α(L)=0.000536 11; α(M)=0.0001181 25 α(N)=2.72×10−5 6; α(O)=3.90×10−6 9; α(P)=2.03×10−7 6 I(ce(K))=0.119 16.
873.88 7	2.54 15	2630.714	1−	1756.920	2+	E1		1.61×10−3	α(K)=0.001377 20; α(L)=0.000184 3; α(M)=3.99×10−5 6 α(N)=9.20×10−6 13; α(O)=1.342×10−6 19; α(P)=7.66×10−8 11 I(ce(K))=0.0036 6.
879.39 2	126 3	966.174	2+	86.789	2+	E2+M1	−16.6 5	0.00401	α(K)=0.00335 5; α(L)=0.000514 8; α(M)=0.0001134 17 α(N)=2.61×10−5 4; α(O)=3.74×10−6 6; α(P)=1.93×10−7 3 I(ce(K))=0.42 4.
x884.0 1	0.028 8								
890.6 1	0.05 2	3098.98	6+	2208.42	4+				
904.6 1	0.86 8	2661.522	2−	1756.920	2+	E1		1.51×10−3	α(K)=0.001289 18; α(L)=0.0001718 24; α(M)=3.73×10−5 6 α(N)=8.60×10−6 12; α(O)=1.255×10−6 18; α(P)=7.18×10−8 10 I(ce(K))=0.0011 3.
905.76 16	0.52 4	2194.44	5+	1288.670	5+	(E2)		0.00375	α(K)=0.00314 5; α(L)=0.000477 7; α(M)=0.0001053 15 α(N)=2.42×10−5 4; α(O)=3.47×10−6 5; α(P)=1.81×10−7 3 I(ce(K))=0.0015 3.
912.58[e] 22	0.09[e] 3	2271.253	2−	1358.693	2−				Iγ: Iγ=0.17 3 for the composite peak.

$^{160}_{66}$Dy$_{94}$-29

γ(^{160}Dy) (continued)

E_γ[†‡]	I_γ[†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[@]	δ[&c]	α[b]	Comments
912.58[e] *22*	0.08[e] *3*	2717.229	2^+	1804.675	1^+				I_γ: Iγ=0.17 *3* for the composite peak.
914.15 *24*	0.16 *3*	2719.02	2^-	1804.675	1^+				
915.5[e] *4*	0.03[e] *2*	1882.62	8^-	966.75	8^+	E1(+M2)	−1 *4*	0.0091 *71*	α(K)=0.0077 *60*; α(L)=0.00115 *91*; α(M)=2.5×10^{-4} *20* α(N)=5.8×10^{-5} *47*; α(O)=8.6×10^{-6} *68*; α(P)=4.9×10^{-7} *39* I_γ: Iγ=0.076 *25* for the composite peak.
915.5[e] *4*	0.04[e] *2*	2610.01	2^+	1694.368	4^+				I_γ: Iγ=0.076 *25* for the composite peak.
917.80 *9*	0.111 *12*	2674.720	1^-	1756.920	2^+				
921.50[e] *16*	0.15[e] *3*	2077.37	3^-	1155.851	4^+				I_γ: Iγ=0.27 *3* for the composite peak.
921.50[e] *16*	0.12[e] *4*	2271.253	2^-	1349.764	2^+				I_γ: Iγ=0.27 *3* for the composite peak.
922.5 *4*	0.10 *3*	2630.714	1^-	1708.14	0^+				
924.9[e] *3*	0.06[e] *2*	2729.84	2^-	1804.675	1^+				I_γ: Iγ=0.100 *18* for the composite peak.
924.9[e] *3*	0.04[e] *2*	2877.114	1^-	1952.31	0^+				I_γ: Iγ=0.100 *18* for the composite peak.
933.8 *1*	0.08 *2*	2372.31	6^-	1438.57	6^+				
934.4[e] *3*	0.04[e] *2*	1901.15	9^-	966.75	8^+	(E1+M2)	0.8 *8*	0.0071 *57*	α(K)=0.0060 *48*; α(L)=8.8×10^{-4} *72*; α(M)=1.9×10^{-4} *16* α(N)=4.5×10^{-5} *37*; α(O)=6.6×10^{-6} *54*; α(P)=3.8×10^{-7} *31* I_γ: Iγ=0.085 *23* for the composite peak.
934.4[e] *3*	0.04[e] *2*	2469.51	3^-	1535.155	4^-				I_γ: Iγ=0.085 *23* for the composite peak.
935.91 *6*	0.52 *3*	2720.58	3^-	1784.696	4^-	E2,M1		0.0049 *14*	α(K)=0.0041 *12*; α(L)=0.00059 *15*; α(M)=0.00013 *4* α(N)=3.0×10^{-5} *8*; α(O)=4.3×10^{-6} *12*; α(P)=2.44×10^{-7} *76* I(ce(K))=0.0023 *5*.
940.9 *1*	0.5 *1*	2697.826	2^+	1756.920	2^+	E2		0.00346	α(K)=0.00290 *4*; α(L)=0.000437 *7*; α(M)=9.63×10^{-5} *14* α(N)=2.22×10^{-5} *4*; α(O)=3.18×10^{-6} *5*; α(P)=1.671×10^{-7} *24*
941.1 *1*	1.9 *2*	2096.896	4^+	1155.851	4^+	E2+M1	+9 *+13−3*	0.00349 *7*	α(K)=0.00292 *6*; α(L)=0.000440 *8*; α(M)=9.70×10^{-5} *17* α(N)=2.23×10^{-5} *4*; α(O)=3.21×10^{-6} *6*; α(P)=1.69×10^{-7} *4* I(ce(K))=0.0071 *10*.
941.3 *1*	0.05 *2*	1522.34	4^+	581.069	6^+	E2		0.00345	α(K)=0.00290 *4*; α(L)=0.000437 *7*; α(M)=9.62×10^{-5} *14* α(N)=2.21×10^{-5} *4*; α(O)=3.18×10^{-6} *5*; α(P)=1.669×10^{-7} *24*
944.3 *4*	0.07 *2*	2701.048	1^-	1756.920	2^+				
946.75 *9*	0.202 *22*	3060.45		2113.69					
951.3 *3*	0.076 *9*	2309.91	2^+,3,4^+	1358.693	2^-				
955.62 *6*	0.16 *3*	2354.631	2^+	1398.969	3^-				
962.0 *1*	0.5 *1*	2719.02	2^-	1756.920	2^+				
962.32 *2*	113 *3*	1049.113	3^+	86.789	2^+	E2+M1	−13.8 *3*	0.00331	α(K)=0.00278 *4*; α(L)=0.000417 *6*; α(M)=9.17×10^{-5} *13* α(N)=2.11×10^{-5} *3*; α(O)=3.04×10^{-6} *5*; α(P)=1.604×10^{-7} *23* I(ce(K))=0.31 *4* (2002Ad34); I(ce(K))=0.283 (2006Bo37).
963.9 *1*	0.4 *1*	2372.31	6^-	1408.47	5^-				
966.18 *2*	105 *3*	966.174	2^+	0.0	0^+	E2		0.00327	α(K)=0.00274 *4*; α(L)=0.000411 *6*; α(M)=9.05×10^{-5} *13* α(N)=2.09×10^{-5} *3*; α(O)=3.00×10^{-6} *5*; α(P)=1.582×10^{-7} *23* I(ce(K))=0.28 *4*.

$^{160}_{66}$Dy$_{94}$-30

γ(^{160}Dy) (continued)

E_γ[†‡]	I_γ[†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[@]	δ[&c]	α[b]	Comments
966.5 *1*	0.20 *5*	2674.720	1⁻	1708.14	0⁺				
970.9 *3*	0.145 *13*	2126.37	3⁻	1155.851	4⁺				
975.40[e] *9*	0.04[e] *2*	2374.50		1398.969	3⁻				I_γ: Iγ=0.135 *25* for the composite peak.
975.40[e] *9*	0.10[e] *2*	2383.70	6⁻	1408.47	5⁻				I_γ: Iγ=0.135 *25* for the composite peak.
982.33[e] *17*	0.02[e] *1*	2138.21	2⁺	1155.851	4⁺				I_γ: Iγ=0.031 *11* for the composite peak.
982.33[e] *17*	0.02[e] *1*	2851.73	1⁻	1869.518	2⁺				I_γ: Iγ=0.031 *11* for the composite peak.
984.65[e] *20*	0.04[e] *2*	2140.15	(3)	1155.851	4⁺				I_γ: Iγ=0.091 *14* for the composite peak.
984.65[e] *20*	0.03[e] *1*	2271.253	2⁻	1286.721	3⁻				I_γ: Iγ=0.091 *14* for the composite peak.
984.65[ef] *20*	0.02[e] *1*	3061.83	1⁺	2077.37	3⁻				I_γ: Iγ=0.091 *14* for the composite peak.
986.15[e] *11*	0.20[e] *5*	1952.31	0⁺	966.174	2⁺				I_γ: Iγ=0.263 *12* for the composite peak.
986.15[e] *11*	0.02[e] *1*	2372.31	6⁻	1386.455	4⁻				I_γ: Iγ=0.263 *12* for the composite peak.
987.91[e] *11*	0.28[e] *4*	2143.74	4⁻	1155.851	4⁺				I_γ: Iγ=0.364 *16* for the composite peak.
987.91[e] *11*	0.08[e] *3*	2386.90	2⁺,3⁺	1398.969	3⁻				I_γ: Iγ=0.364 *16* for the composite peak.
989.75 *5*	0.77 *3*	2697.826	2⁺	1708.14	0⁺				
992.71 *11*	0.188 *25*	2701.048	1⁻	1708.14	0⁺				
994.76 *13*	0.40 *5*	2393.55	2,3⁻	1398.969	3⁻				
995.9 *3*	0.09 *3*	2354.631	2⁺	1358.693	2⁻				
1000.2 *4*	0.046 *15*	2049.51	2⁺,3	1049.113	3⁺				
1002.90 *5*	1.98 *18*	1286.721	3⁻	283.820	4⁺	E1+M2	−0.013 *9*	1.24×10⁻³	α(K)=0.001063 *16*; α(L)=0.0001411 *21*; α(M)=3.06×10⁻⁵ *5* α(N)=7.06×10⁻⁶ *11*; α(O)=1.032×10⁻⁶ *15*; α(P)=5.93×10⁻⁸ *9* δ: from ^{160}Tb β⁻ decay. I(ce(K))=0.0021 *4*.
1004.86[e] *2*	11.5[e] *3*	1288.670	5⁺	283.820	4⁺	E2+M1	−13 *+3−7*	0.00303	α(K)=0.00254 *4*; α(L)=0.000378 *6*; α(M)=8.30×10⁻⁵ *12* α(N)=1.91×10⁻⁵ *3*; α(O)=2.76×10⁻⁶ *4*; α(P)=1.468×10⁻⁷ *22* I(ce(K))=0.032 *4*. I_γ: Iγ=11.5 *3* for the composite peak. δ: 1994SlZZ report δ=+7.1 *+8−10*.
1004.86[e] *2*	0.10[e] *5*	2354.631	2⁺	1349.764	2⁺				I_γ: Iγ=11.5 *3* for the composite peak.
1006.4 *3*	0.10 *3*	2271.253	2⁻	1264.767	2⁻				
1010.8 *2*	0.048 *10*	2297.49	2⁺	1286.721	3⁻				
1013.22 *15*	0.044 *13*	1594.38	6⁻	581.069	6⁺	E1(+M2)	−0.2 *7*	0.0017 *48*	α(K)=0.0014 *40*; α(L)=1.9×10⁻⁴ *60*; α(M)=4.E−5 *14* α(N)=1.0×10⁻⁵ *31*; α(O)=1.4×10⁻⁶ *45*; α(P)=8.E−8 *26*
1018.26 *5*	0.363 *15*	2661.522	2⁻	1643.28	3⁻				
1020.63 *13*	0.145 *23*	2777.62	2⁺,3⁺,4⁺	1756.920	2⁺				
[x]1022.62 *12*	0.195 *25*								

$^{160}_{66}Dy_{94}$-31

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	δ [&c]	α [b]	Comments
1025.76 *7*	0.148 *15*	1606.83	6^+	581.069	6^+				
1028.26[e] *5*	0.08[e] *3*	2077.37	3^-	1049.113	3^+				I_γ: Iγ=0.186 *25* for the composite peak.
1028.26[e] *5*	0.10[e] *5*	2386.90	2^+,3^+	1358.693	2^-				I_γ: Iγ=0.186 *25* for the composite peak.
1030.95 *4*	0.480 *18*	2681.828	5^+	1650.882	4^-,5^-	(E1)		1.18×10^{-3}	α(K)=0.001009 *15*; α(L)=0.0001337 *19*; α(M)=2.90×10^{-5} *4* α(N)=6.69×10^{-6} *10*; α(O)=9.78×10^{-7} *14*; α(P)=5.63×10^{-8} *8* I(ce(K))<0.001.
1032.84[e] *7*	0.11[e] *3*	1613.99	7^-	581.069	6^+	E1+M2	>0.0	0.0067 *55*	α(K)=0.0056 *47*; α(L)=8.3×10^{-4} *70*; α(M)=1.8×10^{-4} *16* α(N)=4.2×10^{-5} *36*; α(O)=6.2×10^{-6} *52*; α(P)=3.5×10^{-7} *30* I_γ: Iγ=0.132 *13* for the composite peak.
1032.84[e] *7*	0.03[e] *1*	2297.49	2^+	1264.767	2^-				I_γ: Iγ=0.132 *13* for the composite peak.
1036.22 *5*	0.47 *4*	1617.28	7^+	581.069	6^+	E2+M1	7.2 *10*	0.00287 *5*	α(N)=1.80×10^{-5} *3*; α(O)=2.60×10^{-6} *4*; α(P)=1.394×10^{-7} *21* α(N)=1.778×10^{-5} *25*; α(O)=2.56×10^{-6} *4*; α(P)=1.373×10^{-7} *20* I(ce(K))=0.0012 *3*.
1038.59 *4*	0.67 *5*	2194.44	5^+	1155.851	4^+	E2		0.00281	α(K)=0.00237 *4*; α(L)=0.000349 *5*; α(M)=7.68×10^{-5} *11* α(N)=1.769×10^{-5} *25*; α(O)=2.55×10^{-6} *4*; α(P)=1.367×10^{-7} *20* I(ce(K))=0.0016 *3*.
1041.94 *20*	0.073 *11*	2090.88	2^-,3^-	1049.113	3^+				
1047.76 *3*	4.61 *9*	2096.896	4^+	1049.113	3^+	E2+M1	−2.81 *+24−26*	0.00299 *6*	α(K)=0.00252 *5*; α(L)=0.000367 *7*; α(M)=8.05×10^{-5} *15* α(N)=1.86×10^{-5} *4*; α(O)=2.69×10^{-6} *5*; α(P)=1.47×10^{-7} *3* δ: from 1994SlZZ. I(ce(K))=0.010 *2*.
1049.6 *5*	0.109 *20*	3061.83	1^+	2012.85	2^+				
1052.63 *8*	0.186 *19*	2208.42	4^+	1155.851	4^+				
1055.2 *1*	0.01 *1*	2021.95	9^+	966.75	8^+	E2+M1	7.0 *12*	0.00276 *5*	α(K)=0.00233 *4*; α(L)=0.000341 *6*; α(M)=7.50×10^{-5} *12* α(N)=1.73×10^{-5} *3*; α(O)=2.50×10^{-6} *4*; α(P)=1.345×10^{-7} *21* I_γ: from the in-beam study of 2002Ju08, Iγ(1055γ)/Iγ(404γ)=2.1.
1058.25 *4*	0.296 *15*	2323.09	1^+,2^+	1264.767	2^-				
1062.0 *3*	0.08 *3*	2665.78	2^+,3^+,4^+	1603.79	4^+				
1066.0 *1*	0.6 *2*	1349.764	2^+	283.820	4^+	E2		0.00267	α(K)=0.00225 *4*; α(L)=0.000330 *5*;

$^{160}_{66}$Dy$_{94}$-32

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[@]	δ [&c]	α [b]	$I_{(\gamma+ce)}$ [†]	Comments
										α(M)=7.24×10^{-5} *11* α(N)=1.669×10^{-5} *24*; α(O)=2.41×10^{-6} *4*; α(P)=1.297×10^{-7} *19* I(ce(K))=0.0020 *5*.
1067.9 *1*	0.35 *4*	2354.631	2$^+$	1286.721	3$^-$					
1069.04[e] *3*	16.0[e] *4*	1155.851	4$^+$	86.789	2$^+$	E2		0.00265		α(K)=0.00223 *4*; α(L)=0.000328 *5*; α(M)=7.20×10^{-5} *10* α(N)=1.659×10^{-5} *24*; α(O)=2.39×10^{-6} *4*; α(P)=1.290×10^{-7} *18* I(ce(K))=0.036 *5*. I_γ: Iγ=16.5 *4* for the composite peak. δ: 1998Kr21 report δ(M3/E2)=−0.04 *5*. From low-temperature nuclear orientation, 1994SlZZ report δ(M3/E2)=−0.079 *21*. The implied B(M3) is much larger than that consistent with RUL. Note this γ connects a member of the γ vibration with a member of the g.s. band. Such transitions typically have B(E2) values of the order of a few Weisskopf units. Choosing a reasonable value of 1.0 B(E2)(W.u.) for the B(E2) value of the 1069 γ, the evaluator finds that RUL implies δ(M3/E2)<0.0013.
1069.04[e] *3*	0.20[e] *5*	2354.631	2$^+$	1285.607	1$^-$					
1070.8 *3*	0.23 *3*	1651.95	4$^+$,5,6$^+$	581.069	6$^+$					
1074.85 *4*	0.006 *2*	1358.693	2$^-$	283.820	4$^+$	M2		0.01097		α(K)=0.00923 *13*; α(L)=0.001363 *19*; α(M)=0.000300 *5* α(N)=6.95×10^{-5} *10*; α(O)=1.019×10^{-5} *15*; α(P)=5.86×10^{-7} *9*
1075.3 *4*	0.043 *22*	2719.02	2$^-$	1643.28	3$^-$					
1077.25 *6*	0.36 *4*	2126.37	3$^-$	1049.113	3$^+$					
1081.50 *13*	0.16 *4*	2130.586	3$^-$	1049.113	3$^+$	E1		1.08×10^{-3}		α(K)=0.000924 *13*; α(L)=0.0001222 *18*; α(M)=2.65×10^{-5} *4* α(N)=6.11×10^{-6} *9*; α(O)=8.94×10^{-7} *13*; α(P)=5.16×10^{-8} *8* I(ce(K))<0.0005.
1083.70 *5*	0.36 *5*	2372.31	6$^-$	1288.670	5$^+$	E1		1.08×10^{-3}		α(K)=0.000921 *13*; α(L)=0.0001217 *17*; α(M)=2.64×10^{-5} *4* α(N)=6.09×10^{-6} *9*; α(O)=8.91×10^{-7} *13*; α(P)=5.14×10^{-8} *8*
1087.48 *15*	0.11 *2*	2681.828	5$^+$	1594.38	6$^-$					
1089.63 *15*	0.80 *6*	2354.631	2$^+$	1264.767	2$^-$	E1		1.07×10^{-3}		α(K)=0.000911 *13*; α(L)=0.0001205 *17*; α(M)=2.61×10^{-5} *4*

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	δ [&c]	α [b]	Comments
									α(N)=6.03×10^{-6} *9*; α(O)=8.82×10^{-7} *13*; α(P)=5.09×10^{-8} *8* I(ce(K))=0.0012 *2*.
1091.1 *3*	0.36 *5*	2140.15	(3)	1049.113	3$^+$				Mult.: 2002Ad34 propose mult=(E1).
1094.6 *1*	0.13 *3*	2143.74	4$^-$	1049.113	3$^+$				
1095.01[e] *3*	1.6[e] *3*	2383.70	6$^-$	1288.670	5$^+$	(E1)		1.06×10^{-3}	α(K)=0.000903 *13*; α(L)=0.0001194 *17*; α(M)=2.59×10^{-5} *4* α(N)=5.97×10^{-6} *9*; α(O)=8.74×10^{-7} *13*; α(P)=5.05×10^{-8} *7* I_γ: Iγ=1.78 *5* for the composite peak. I(ce(K))=0.0018 *4*.
1095.01[e] *3*	0.20[e] *5*	2681.828	5$^+$	1586.748	5$^-$				I_γ: Iγ=1.78 *5* for the composite peak.
1100.14 *8*	0.23 *5*	2386.90	2$^+$,3$^+$	1286.721	3$^-$				
1102.60 *4*	0.93 *4*	1386.455	4$^-$	283.820	4$^+$	E1+M2	+0.0049 *12*	1.04×10^{-3}	α(K)=0.000892 *13*; α(L)=0.0001179 *17*; α(M)=2.56×10^{-5} *4* α(N)=5.90×10^{-6} *9*; α(O)=8.63×10^{-7} *12*; α(P)=4.99×10^{-8} *7*; α(IPF)=1.86×10^{-6} *3* δ: from ^{160}Tb β$^-$ decay.
1106.5 *3*	0.15 *5*	2393.55	2,3$^-$	1286.721	3$^-$				
1107.6 *3*	0.16 *5*	2393.55	2,3$^-$	1285.607	1$^-$				
1111.11[e] *18*	0.14[e] *4*	2077.37	3$^-$	966.174	2$^+$				I_γ: Iγ=0.27 *6* for the composite peak.
1111.11[e] *18*	0.13[e] *4*	2469.51	3$^-$	1358.693	2$^-$				I_γ: Iγ=0.27 *6* for the composite peak.
1112.33 *10*	1.10 *10*	2630.714	1$^-$	1518.421	2$^+$	E1		1.03×10^{-3}	α(K)=0.000878 *13*; α(L)=0.0001160 *17*; α(M)=2.51×10^{-5} *4* α(N)=5.80×10^{-6} *9*; α(O)=8.49×10^{-7} *12*; α(P)=4.91×10^{-8} *7*; α(IPF)=2.61×10^{-6} *4* I(ce(K))=0.00097 *20*.
1115.16 *3*	2.18 *4*	1398.969	3$^-$	283.820	4$^+$	E1(+M2)	+0.001 *3*	1.02×10^{-3}	α(K)=0.000874 *13*; α(L)=0.0001154 *17*; α(M)=2.50×10^{-5} *4* α(N)=5.78×10^{-6} *8*; α(O)=8.45×10^{-7} *12*; α(P)=4.89×10^{-8} *7*; α(IPF)=2.87×10^{-6} *4* I(ce(K))=0.0019 *3*.
1116.3 *1*	0.10 *5*	2165.42		1049.113	3$^+$				
1122.10 *4*	0.97 *3*	2386.90	2$^+$,3$^+$	1264.767	2$^-$	E1		1.01×10^{-3}	α(K)=0.000864 *12*; α(L)=0.0001141 *16*; α(M)=2.47×10^{-5} *4* α(N)=5.71×10^{-6} *8*; α(O)=8.35×10^{-7} *12*; α(P)=4.83×10^{-8} *7*; α(IPF)=3.60×10^{-6} *5* I(ce(K))=0.0008 *2*.
1124.68[e] *4*	0.48[e] *9*	1408.47	5$^-$	283.820	4$^+$	E1		1.01×10^{-3}	α(K)=0.000861 *12*; α(L)=0.0001136 *16*; α(M)=2.46×10^{-5} *4* α(N)=5.69×10^{-6} *8*; α(O)=8.32×10^{-7} *12*; α(P)=4.81×10^{-8} *7*; α(IPF)=3.91×10^{-6} *6* I_γ: Iγ=0.83 *3* for the composite peak. I(ce(K))=0.0007 *2*.
1124.68[e] *4*	0.35[e] *4*	2090.88	2$^-$,3$^-$	966.174	2$^+$				I_γ: Iγ=0.83 *3* for the composite peak.
1126.6 *3*	0.053 *12*	2661.522	2$^-$	1535.155	4$^-$				
1128.7 *1*	0.08 *2*	2393.55	2,3$^-$	1264.767	2$^-$				

$^{160}_{66}$Dy$_{94}$-34

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	α [b]	Comments
1130.71 *2*	6.4 *2*	2096.896	4+	966.174	2+	E2	0.00237	α(K)=0.00200 *3*; α(L)=0.000290 *4*; α(M)=6.36×10^{-5} *9* α(N)=1.466×10^{-5} *21*; α(O)=2.12×10^{-6} *3*; α(P)=1.154×10^{-7} *17*; α(IPF)=8.56×10^{-7} *12* I(ce(K))=0.013 *2*.
1134.2 *5*	0.038 *16*	2777.62	2+,3+,4+	1643.28	3−			
1140.71 *5*	0.15 *4*	2630.24	(1,2)+	1489.503	1−	E1	9.86×10^{-4}	α(K)=0.000839 *12*; α(L)=0.0001107 *16*; α(M)=2.40×10^{-5} *4* α(N)=5.54×10^{-6} *8*; α(O)=8.10×10^{-7} *12*; α(P)=4.69×10^{-8} *7*; α(IPF)=6.29×10^{-6} *9*
1141.3 *1*	0.09 *2*	2630.714	1−	1489.503	1−	E2	0.00232	α(K)=0.00196 *3*; α(L)=0.000284 *4*; α(M)=6.23×10^{-5} *9* α(N)=1.437×10^{-5} *21*; α(O)=2.08×10^{-6} *3*; α(P)=1.133×10^{-7} *16*; α(IPF)=1.208×10^{-6} *18*
1143.04 *9*	0.097 *12*	2661.522	2−	1518.421	2+			
1145.33 *4*	0.54 *2*	2194.44	5+	1049.113	3+	E2	0.00231	α(K)=0.00195 *3*; α(L)=0.000282 *4*; α(M)=6.18×10^{-5} *9* α(N)=1.426×10^{-5} *20*; α(O)=2.06×10^{-6} *3*; α(P)=1.125×10^{-7} *16*; α(IPF)=1.368×10^{-6} *20* Mult.: 2002Ad34 report mult=M1,E2. Placement requires E2. I(ce(K))=0.0014 *3*.
^{x}1150.0 *5*	0.041 *20*							
^{x}1152.2 *2*	0.082 *20*							
1154.68 *9*	0.64 *8*	1438.57	6+	283.820	4+	E2	0.00227	α(K)=0.00192 *3*; α(L)=0.000277 *4*; α(M)=6.08×10^{-5} *9* α(N)=1.401×10^{-5} *20*; α(O)=2.03×10^{-6} *3*; α(P)=1.107×10^{-7} *16*; α(IPF)=1.80×10^{-6} *3* I(ce(K))=0.0011 *3*.
1156.32 *9*	0.84 *8*	2674.720	1−	1518.421	2+	E1	9.66×10^{-4}	α(K)=0.000819 *12*; α(L)=0.0001080 *16*; α(M)=2.34×10^{-5} *4* α(N)=5.40×10^{-6} *8*; α(O)=7.91×10^{-7} *11*; α(P)=4.58×10^{-8} *7*; α(IPF)=9.51×10^{-6} *14* I(ce(K))=0.00066 *17*.
1159.1 *3*	0.37 *7*	2208.42	4+	1049.113	3+	E2	0.00225	α(K)=0.00190 *3*; α(L)=0.000275 *4*; α(M)=6.02×10^{-5} *9* α(N)=1.389×10^{-5} *20*; α(O)=2.01×10^{-6} *3*; α(P)=1.099×10^{-7} *16*; α(IPF)=2.04×10^{-6} *4* I(ce(K))=0.0006 *2*.
1160.2 *3*	0.33 *5*	2126.37	3−	966.174	2+			
1164.35 *4*	0.72 *3*	2130.586	3−	966.174	2+	E1	9.56×10^{-4}	α(K)=0.000809 *12*; α(L)=0.0001066 *15*; α(M)=2.31×10^{-5} *4* α(N)=5.33×10^{-6} *8*; α(O)=7.81×10^{-7} *11*; α(P)=4.52×10^{-8} *7*; α(IPF)=1.154×10^{-5} *17* I(ce(K))=0.0008 *2*.
1171.97[e] *6*	0.16[e] *4*	2138.21	2+	966.174	2+			I_γ: Iγ=1.13 *5* for the composite peak.
1171.97[e] *6*	0.97[e] *8*	2661.522	2−	1489.503	1−	E2,M1	0.0029 *8*	α(K)=0.0025 *7*; α(L)=0.00035 *8*; α(M)=7.6×10^{-5} *17* α(N)=1.7×10^{-5} *4*; α(O)=2.6×10^{-6} *6*; α(P)=1.47×10^{-7} *40*; α(IPF)=3.09×10^{-6} *23* I_γ: Iγ=1.13 *5* for the composite peak. I(ce(K))=0.0035 *8*.

$^{160}_{66}$Dy$_{94}$-35

γ(^{160}Dy) (continued)

Eγ†‡	Iγ†#	Ei(level)	J^π_i	Ef	J^π_f	Mult.@	δ&c	α b	Comments
1173.95e *5*	0.5e *1*	2140.15	(3)	966.174	2+				Iγ: Iγ=2.16 *6* for the composite peak.
1173.95e *5*	1.6e *3*	2630.714	1−	1456.757	0+	(E1)		9.45×10−4	α(K)=0.000797 *12*; α(L)=0.0001050 *15*; α(M)=2.28×10−5 *4* α(N)=5.25×10−6 *8*; α(O)=7.69×10−7 *11*; α(P)=4.46×10−8 *7*; α(IPF)=1.432×10−5 *21* I(ce(K))=0.0015 *3*. Iγ: Iγ=2.16 *6* for the composite peak.
1177.98 *3*	3.96 *8*	1264.767	2−	86.789	2+	E1+M2	−0.0207 *23*	9.44×10−4	α(K)=0.000795 *12*; α(L)=0.0001048 *15*; α(M)=2.27×10−5 *4* α(N)=5.24×10−6 *8*; α(O)=7.67×10−7 *11*; α(P)=4.45×10−8 *7*; α(IPF)=1.558×10−5 *22* I(ce(K))=0.0032 *5*. δ: from ^{160}Tb β− decay.
1182.68 *3*	1.65 *4*	2701.048	1−	1518.421	2+	E1		9.36×10−4	α(K)=0.000786 *11*; α(L)=0.0001036 *15*; α(M)=2.25×10−5 *4* α(N)=5.18×10−6 *8*; α(O)=7.59×10−7 *11*; α(P)=4.40×10−8 *7*; α(IPF)=1.715×10−5 *24* I(ce(K))=0.0013 *4*.
1185.20 *15*	0.126 *7*	2674.720	1−	1489.503	1−				
1193.17 *3*	1.38 *6*	1279.945	0+	86.789	2+	(E2)		0.00213	α(K)=0.00180 *3*; α(L)=0.000258 *4*; α(M)=5.66×10−5 *8* α(N)=1.305×10−5 *19*; α(O)=1.89×10−6 *3*; α(P)=1.038×10−7 *15*; α(IPF)=4.64×10−6 *7* I(ce(K))=0.0025 *5*.
1198.84e *4*	8.0e *3*	1285.607	1−	86.789	2+	E1		9.20×10−4	α(K)=0.000768 *11*; α(L)=0.0001011 *15*; α(M)=2.19×10−5 *3* α(N)=5.06×10−6 *7*; α(O)=7.40×10−7 *11*; α(P)=4.29×10−8 *6*; α(IPF)=2.31×10−5 *4* Iγ: Iγ=8.3 *3* for the composite peak. I(ce(K))=0.0060 *12*.
1198.84e *4*	0.3e *1*	2354.631	2+	1155.851	4+				Iγ: Iγ=8.3 *3* for the composite peak.
1199.89 *4*	4.3 *3*	1286.721	3−	86.789	2+	E1+M2	−0.008 *3*	9.19×10−4	α(K)=0.000767 *11*; α(L)=0.0001010 *15*; α(M)=2.19×10−5 *3* α(N)=5.05×10−6 *7*; α(O)=7.40×10−7 *11*; α(P)=4.29×10−8 *6*; α(IPF)=2.35×10−5 *4* I(ce(K))=0.0041 *10*. δ: from ^{160}Tb β− decay.
1202.15 *12*	0.22 *3*	2720.58	3−	1518.421	2+				
1206.7 *1*	0.02 *1*	1787.82	6−	581.069	6+				
1208.28 *12*	0.32 *2*	2697.826	2+	1489.503	1−				
1211.71 *6*	0.29 *2*	2367.47	2+,3+,4+	1155.851	4+				
1214.45 *23*	0.082 *18*	2704.230	2−,3−	1489.503	1−				
1216.37 *7*	0.48 *3*	2734.720	1−	1518.421	2+	E1		9.04×10−4	α(K)=0.000748 *11*; α(L)=9.85×10−5 *14*;

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	δ [&c]	α [b]	Comments
									α(M)=2.13×10^{-5} *3* α(N)=4.93×10^{-6} *7*; α(O)=7.21×10^{-7} *10*; α(P)=4.19×10^{-8} *6*; α(IPF)=3.04×10^{-5} *5* I(ce(K))<0.0005.
1218.05 *5*	0.49 *3*	2674.720	1$^-$	1456.757	0$^+$	E1		9.02×10^{-4}	α(K)=0.000746 *11*; α(L)=9.82×10^{-5} *14*; α(M)=2.13×10^{-5} *3* α(N)=4.91×10^{-6} *7*; α(O)=7.19×10^{-7} *10*; α(P)=4.18×10^{-8} *6*; α(IPF)=3.11×10^{-5} *5* I(ce(K))<0.0005.
1221.21 *5*	0.28 *3*	1802.233	5$^+$	581.069	6$^+$	E2,M1		0.0027 *7*	α(K)=0.0023 *6*; α(L)=0.00032 *7*; α(M)=6.9×10^{-5} *15* α(N)=1.6×10^{-5} *4*; α(O)=2.3×10^{-6} *6*; α(P)=1.34×10^{-7} *35*; α(IPF)=8.3×10^{-6} *7* I(ce(K))=0.0009 *3*.
^{x}1227.8 *5*	0.025 *15*								
1229.52 *25*	0.064 *6*	2719.02	2$^-$	1489.503	1$^-$				
1234.60 *3*	1.67 *4*	1518.421	2$^+$	283.820	4$^+$	E2		0.00200	α(K)=0.001680 *24*; α(L)=0.000240 *4*; α(M)=5.26×10^{-5} *8* α(N)=1.213×10^{-5} *17*; α(O)=1.760×10^{-6} *25*; α(P)=9.71×10^{-8} *14*; α(IPF)=9.44×10^{-6} *14* I(ce(K))=0.0021 *5*.
1238.6 *2*	0.14 *2*	1522.34	4$^+$	283.820	4$^+$				
1240.36 *20*	0.55 *4*	2729.84	2$^-$	1489.503	1$^-$	E2		0.00198	α(K)=0.001665 *24*; α(L)=0.000238 *4*; α(M)=5.21×10^{-5} *8* α(N)=1.201×10^{-5} *17*; α(O)=1.743×10^{-6} *25*; α(P)=9.62×10^{-8} *14*; α(IPF)=1.022×10^{-5} *15* I(ce(K))=0.0009 *3*.
1241.9 *3*	0.41 *4*	2208.42	4$^+$	966.174	2$^+$	E2		0.00197	α(K)=0.001661 *24*; α(L)=0.000237 *4*; α(M)=5.20×10^{-5} *8* α(N)=1.198×10^{-5} *17*; α(O)=1.739×10^{-6} *25*; α(P)=9.60×10^{-8} *14*; α(IPF)=1.043×10^{-5} *16* I(ce(K))=0.0009 *3*.
1244.22 *4*	1.06 *4*	2701.048	1$^-$	1456.757	0$^+$	E1		8.82×10^{-4}	α(K)=0.000719 *10*; α(L)=9.45×10^{-5} *14*; α(M)=2.05×10^{-5} *3* α(N)=4.73×10^{-6} *7*; α(O)=6.92×10^{-7} *10*; α(P)=4.02×10^{-8} *6*; α(IPF)=4.28×10^{-5} *6* I(ce(K))<0.0005.
1245.8 *6*	0.052 *20*	2734.720	1$^-$	1489.503	1$^-$				
1248.26 *5*	0.16 *2*	2297.49	2$^+$	1049.113	3$^+$				
1251.28 *4*	0.28 *2*	1535.155	4$^-$	283.820	4$^+$	E1(+M2)	−0.01 *3*	8.78×10^{-4} *16*	α(K)=0.000712 *13*; α(L)=9.36×10^{-5} *18*; α(M)=2.03×10^{-5} *4* α(N)=4.68×10^{-6} *9*; α(O)=6.86×10^{-7} *14*; α(P)=3.99×10^{-8} *8*; α(IPF)=4.61×10^{-5} *7* δ: from ^{160}Tb β^- decay. 2002Ad34 report mult=(E1). I(ce(K))<0.0002.
1259.10 *7*	0.218 *15*	2777.62	2$^+$,3$^+$,4$^+$	1518.421	2$^+$				

From ENSDF

$^{160}_{66}$Dy$_{94}$-37

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	δ [&c]	α [b]	$I_{(\gamma+ce)}$ [†]	Comments
1260.82 *20*	0.16 *3*	2309.91	2^+,3,4^+	1049.113	3^+					
1262.83[e] *6*	1.0[e] *3*	1349.764	2^+	86.789	2^+	E0+E2+M1	−1.5 +*7*−*20*			α(exp)=0.017 *6* α: calculated by evaluator based on measured I(ce(K)) and Iγ, calculated α(K) and α (for M1+E2), and electronic factors Ω_K(E0) and Ω(E0), respectively. I(ce(K))=0.015 *3*. I_γ: Iγ=1.77 *7* for the composite peak. δ: 1994SlZZ report δ(E2/M1)=−1.0 +∞−4. according to 2008VaZU 90% contribution in conversion gives E0 component, from which they deduced parameter B(E0)/B(E2)=0.29 *6* and ρ^2=0.028 *7* (the evaluator could not check these values).
1262.83[e] *6*	0.8[e] *3*	2661.522	2^-	1398.969	3^-					E_γ: level-energy difference=1262.55. Eγ=1262.83 for doublet. I_γ: Iγ=1.77 *7* for the composite peak.
1271.0		1952.31	0^+	681.3?	(0^+)	(E0)			0.0027	E_γ,Mult.: from 2009Ad04. $I_{(\gamma+ce)}$: calculated by evaluator based on measured I(ce(K)) and ratio of electronic factors Ω_K(E0)\Ω(E0)=0.876. I(ce(K))=0.0024 (2009Ad04).
1271.89[e] *2*	12.6[e] *5*	1358.693	2^-	86.789	2^+	E1+M2	+0.0166 *25*	8.63×10^{-4}		α(K)=0.000691 *10*; α(L)=9.09×10^{-5} *13*; α(M)=1.97×10^{-5} *3* α(N)=4.54×10^{-6} *7*; α(O)=6.66×10^{-7} *10*; α(P)=3.87×10^{-8} *6*; α(IPF)=5.58×10^{-5} *8* I_γ: Iγ=15.5 *5* for the composite peak. δ: 1998Kr21 report δ(M2/E1)=−0.07 +*15*−*14*. I(ce(K))=0.012 *2*.
1271.89[e] *2*	2.9[e] *5*	2630.714	1^-	1358.693	2^-					E_γ: level-energy difference=1272.02. Eγ=1271.89 for doublet. I_γ: Iγ=15.5 *5* for the composite peak.
1274.25 *12*	0.50 *3*	2323.09	1^+,2^+	1049.113	3^+	E2		0.00188		α(K)=0.001580 *23*; α(L)=0.000225 *4*; α(M)=4.92×10^{-5} *7* α(N)=1.135×10^{-5} *16*; α(O)=1.648×10^{-6}

$^{160}_{66}Dy_{94}$-38

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [b]	$I_{(\gamma+ce)}$ [†]	Comments
									23; α(P)=9.13×10^{-8} *13*; α(IPF)=1.520×10^{-5} *22* I(ce(K))=0.0007 *2*.
1276.0[e] *3*	0.05[e] *2*	2634.74		1358.693	2$^-$				I_γ: Iγ=0.084 *20* for the composite peak.
1276.0[e] *3*	0.03[e] *1*	2674.720	1$^-$	1398.969	3$^-$				I_γ: Iγ=0.084 *20* for the composite peak.
1278.1 *2*	0.348 *25*	2734.720	1$^-$	1456.757	0$^+$				
1279.2 *1*	0.12 *2*	1860.18	5$^-$	581.069	6$^+$	E1(+M2)	0.00092 *7*		α(K)=0.00074 *6*; α(L)=9.8×10^{-5} *8*; α(M)=2.12×10^{-5} *17* α(N)=4.9×10^{-6} *4*; α(O)=7.2×10^{-7} *6*; α(P)=4.2×10^{-8} *4*; α(IPF)=5.88×10^{-5} *10*
1280.0 *3*		1279.945	0$^+$	0.0	0$^+$	E0		0.0061 *11*	$I_{(\gamma+ce)}$: calculated by evaluator based on measured I(ce(K)) and ratio of electronic factors Ω_K(E0)\Ω(E0)=0.876. I(ce(K))=0.0053 *10* (2002Ad34). B(E0)/B(E2)=0.3 (2009Ad04).
1280.93 *3*	0.86 *3*	2630.714	1$^-$	1349.764	2$^+$	(E1)	8.57×10^{-4}		α(K)=0.000683 *10*; α(L)=8.97×10^{-5} *13*; α(M)=1.94×10^{-5} *3* α(N)=4.49×10^{-6} *7*; α(O)=6.57×10^{-7} *10*; α(P)=3.82×10^{-8} *6*; α(IPF)=6.02×10^{-5} *9*
1285.60 *2*	10.0 *2*	1285.607	1$^-$	0.0	0$^+$	E1	8.55×10^{-4}		α(K)=0.000678 *10*; α(L)=8.91×10^{-5} *13*; α(M)=1.93×10^{-5} *3* α(N)=4.46×10^{-6} *7*; α(O)=6.53×10^{-7} *10*; α(P)=3.80×10^{-8} *6*; α(IPF)=6.25×10^{-5} *9* I(ce(K))=0.0068 *10*.
1295.42 *20*	0.059 *20*	2681.828	5$^+$	1386.455	4$^-$				
1297.66[e] *18*	0.10[e] *5*	2696.43	2$^-$,3$^-$	1398.969	3$^-$	E2	0.00182		α(K)=0.001525 *22*; α(L)=0.000216 *3*; α(M)=4.73×10^{-5} *7* α(N)=1.092×10^{-5} *16*; α(O)=1.587×10^{-6} *23*; α(P)=8.81×10^{-8} *13*; α(IPF)=1.91×10^{-5} *3* I_γ: Iγ=0.15 *3* for the composite peak.
1297.66[e] *18*	0.05[e] *2*	3098.98	6$^+$	1801.16	8$^+$	E2	0.00182		α(K)=0.001525 *22*; α(L)=0.000216 *3*; α(M)=4.73×10^{-5} *7* α(N)=1.092×10^{-5} *16*; α(O)=1.587×10^{-6} *23*; α(P)=8.81×10^{-8} *13*; α(IPF)=1.91×10^{-5} *3* I_γ: Iγ=0.15 *3* for the composite peak.
1302.84[e] *3*	0.20[e] *5*	1586.748	5$^-$	283.820	4$^+$	E1	8.45×10^{-4}		α(K)=0.000663 *10*; α(L)=8.70×10^{-5} *13*; α(M)=1.89×10^{-5} *3* α(N)=4.35×10^{-6} *6*; α(O)=6.38×10^{-7} *9*; α(P)=3.71×10^{-8} *6*; α(IPF)=7.13×10^{-5} *10* I_γ: Iγ=1.10 *3* for the composite peak. Mult.: 2002Ad34 report mult=E1,E2. Placement requires E1. I(ce(K))=0.0012 *3*.

From ENSDF

$^{160}_{66}$Dy$_{94}$-39

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	δ [&c]	α [b]	Comments
1302.84[e] 3	0.9[e] 2	2661.522	2−	1358.693	2−				I_γ: Iγ=1.10 3 for the composite peak.
1305.18[e] 5	0.5[e] 1	2271.253	2−	966.174	2+	E1		8.44×10^{-4}	α(K)=0.000661 10; α(L)=8.67×10^{-5} 13; α(M)=1.88×10^{-5} 3 α(N)=4.34×10^{-6} 6; α(O)=6.36×10^{-7} 9; α(P)=3.70×10^{-8} 6; α(IPF)=7.25×10^{-5} 11 I_γ: Iγ=0.78 3 for the composite peak. Mult.: 2002Ad34 report mult=E1,E2. Placement requires E1. I(ce(K))=0.0009 2.
1305.18[e] 5	0.3[e] 1	2704.230	2−,3−	1398.969	3−				I_γ: Iγ=0.78 3 for the composite peak.
1312.16 2	3.83 8	1398.969	3−	86.789	2+	E1+M2	−0.15 3	0.00087 6	α(K)=0.00068 5; α(L)=8.9×10^{-5} 7; α(M)=1.94×10^{-5} 15 α(N)=4.5×10^{-6} 4; α(O)=6.6×10^{-7} 5; α(P)=3.8×10^{-8} 3; α(IPF)=7.59×10^{-5} 13 I(ce(K))=0.0025 5.
1316.04[e] 8	0.10[e] 5	2602.67	1−,2−	1286.721	3−				I_γ: Iγ=0.48 2 for the composite peak.
1316.04[e] 8	0.4[e] 1	2674.720	1−	1358.693	2−	E2		1.78×10^{-3}	α(K)=0.001484 21; α(L)=0.000210 3; α(M)=4.60×10^{-5} 7 α(N)=1.061×10^{-5} 15; α(O)=1.542×10^{-6} 22; α(P)=8.58×10^{-8} 12; α(IPF)=2.25×10^{-5} 4 I_γ: Iγ=0.48 2 for the composite peak. I(ce(K))=0.0007 3.
1318.21[e] 5	0.5[e] 1	2367.47	2+,3+,4+	1049.113	3+	E2		1.77×10^{-3}	α(K)=0.001479 21; α(L)=0.000209 3; α(M)=4.58×10^{-5} 7 α(N)=1.057×10^{-5} 15; α(O)=1.536×10^{-6} 22; α(P)=8.55×10^{-8} 12; α(IPF)=2.30×10^{-5} 4 I_γ: Iγ=0.91 3 for the composite peak. I(ce(K))=0.0013 3.
1318.21[e] 5	0.4[e] 1	2717.229	2+	1398.969	3−				I_γ: Iγ=0.91 3 for the composite peak.
1319.95[e] 25	0.10[e] 4	1603.79	4+	283.820	4+	E2		1.77×10^{-3}	α(K)=0.001476 21; α(L)=0.000209 3; α(M)=4.57×10^{-5} 7 α(N)=1.054×10^{-5} 15; α(O)=1.532×10^{-6} 22; α(P)=8.53×10^{-8} 12; α(IPF)=2.33×10^{-5} 4 I_γ: Iγ=0.30 3 for the composite peak. I(ce(K))=0.0005 2.
1319.95[e] 25	0.20[e] 5	2719.02	2−	1398.969	3−				I_γ: Iγ=0.30 3 for the composite peak.
1321.5 3	0.21 3	2720.58	3−	1398.969	3−	E2		1.76×10^{-3}	α(K)=0.001472 21; α(L)=0.000208 3; α(M)=4.56×10^{-5} 7 α(N)=1.051×10^{-5} 15; α(O)=1.528×10^{-6} 22; α(P)=8.51×10^{-8} 12; α(IPF)=2.36×10^{-5} 4 I(ce(K))=0.0003 2.
1322.86 23	0.34 4	1606.83	6+	283.820	4+	E2		1.76×10^{-3}	α(K)=0.001469 21; α(L)=0.000208 3; α(M)=4.55×10^{-5} 7 α(N)=1.049×10^{-5} 15; α(O)=1.525×10^{-6} 22; α(P)=8.49×10^{-8} 12; α(IPF)=2.39×10^{-5} 4 I(ce(K))=0.0005 2.

$^{160}_{66}Dy_{94}$-40

γ(^{160}Dy) (continued)

E_γ[†‡]	I_γ[†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[@]	α[b]	Comments
1324.94 *23*	0.115 *15*	2674.720	1⁻	1349.764	2⁺			
1330.4 *5*	0.18 *11*	2729.84	2⁻	1398.969	3⁻	E2	1.74×10^{-3}	α(K)=0.001453 *21*; α(L)=0.000205 *3*; α(M)=4.49×10^{-5} *7* α(N)=1.037×10^{-5} *15*; α(O)=1.507×10^{-6} *22*; α(P)=8.40×10^{-8} *12*; α(IPF)=2.55×10^{-5} *4*
1331.21 *14*	0.81 *10*	2297.49	2⁺	966.174	2⁺	E2	1.74×10^{-3}	α(K)=0.001452 *21*; α(L)=0.000205 *3*; α(M)=4.49×10^{-5} *7* α(N)=1.036×10^{-5} *15*; α(O)=1.506×10^{-6} *21*; α(P)=8.39×10^{-8} *12*; α(IPF)=2.56×10^{-5} *4* I(ce(K))=0.0015 *2*.
1333.5 *4*	0.21 *8*	2851.73	1⁻	1518.421	2⁺			
1336.1 *4*	0.07 *3*	2734.720	1⁻	1398.969	3⁻			
1337.8[e] *2*	0.20[e] *5*	2602.67	1⁻,2⁻	1264.767	2⁻	E2	1.72×10^{-3}	α(K)=0.001438 *21*; α(L)=0.000203 *3*; α(M)=4.44×10^{-5} *7* α(N)=1.025×10^{-5} *15*; α(O)=1.490×10^{-6} *21*; α(P)=8.31×10^{-8} *12*; α(IPF)=2.71×10^{-5} *4* I_γ: Iγ=1.00 *15* for the composite peak.
1337.8[e] *2*	0.8[e] *2*	2696.43	2⁻,3⁻	1358.693	2⁻	E2	1.72×10^{-3}	α(K)=0.001438 *21*; α(L)=0.000203 *3*; α(M)=4.44×10^{-5} *7* α(N)=1.025×10^{-5} *15*; α(O)=1.490×10^{-6} *21*; α(P)=8.31×10^{-8} *12*; α(IPF)=2.71×10^{-5} *4* I_γ: Iγ=1.00 *15* for the composite peak. I(ce(K))=0.0017 *4*.
1339.2 *2*	0.53 *5*	2697.826	2⁺	1358.693	2⁻			
1341.5 *4*	0.20 *6*	2701.048	1⁻	1358.693	2⁻	E2,M1	0.0022 *5*	α(K)=0.0018 *4*; α(L)=0.00025 *6*; α(M)=5.6×10^{-5} *12* α(N)=1.3×10^{-5} *3*; α(O)=1.9×10^{-6} *4*; α(P)=1.1×10^{-7} *3*; α(IPF)=3.01×10^{-5} *23* I(ce(K))=0.0004 *1*.
1343.5 *3*	0.20 *6*	2729.84	2⁻	1386.455	4⁻			
1344.4 *1*	0.10 *5*	2393.55	2,3⁻	1049.113	3⁺			
1345.08[e] *4*	1.3[e] *1*	2630.714	1⁻	1285.607	1⁻	E2	1.71×10^{-3}	α(K)=0.001423 *20*; α(L)=0.000201 *3*; α(M)=4.39×10^{-5} *7* α(N)=1.013×10^{-5} *15*; α(O)=1.474×10^{-6} *21*; α(P)=8.22×10^{-8} *12*; α(IPF)=2.87×10^{-5} *4* I_γ: Iγ=1.59 *8* for the composite peak. I(ce(K))=0.0022 *4*.
1345.08[ef] *4*	0.20[e] *5*	2704.230	2⁻,3⁻	1358.693	2⁻			E_γ: poor fit. Level-energy difference=1345.53. Eγ=1345.08 for doublet. γ not used in least-squares fitting procedure. I_γ: Iγ=1.59 *8* for the composite peak.
1348.09[e] *10*	0.15[e] *4*	1929.186	6⁺	581.069	6⁺			I_γ: Iγ=0.24 *3* for the composite peak.
1348.09[e] *10*	0.09[e] *2*	2697.826	2⁺	1349.764	2⁺			I_γ: Iγ=0.24 *3* for the composite peak.
1349.76 *10*	1.23 *6*	1349.764	2⁺	0.0	0⁺	E2	1.70×10^{-3}	α(K)=0.001414 *20*; α(L)=0.000199 *3*; α(M)=4.36×10^{-5} *7* α(N)=1.006×10^{-5} *14*; α(O)=1.463×10^{-6} *21*; α(P)=8.17×10^{-8} *12*; α(IPF)=2.98×10^{-5} *5* I(ce(K))=0.0018 *4*.
1350.8 *1*	0.17 *3*	2630.714	1⁻	1279.945	0⁺			
1351.24 *10*	0.55 *4*	2701.048	1⁻	1349.764	2⁺	(E1)	8.25×10^{-4}	α(K)=0.000622 *9*; α(L)=8.16×10^{-5} *12*; α(M)=1.767×10^{-5} *25*

From ENSDF

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	α [b]	Comments
								α(N)=4.08×10^{-6} *6*; α(O)=5.98×10^{-7} *9*; α(P)=3.49×10^{-8} *5*; α(IPF)=9.92×10^{-5} *14* I(ce(K))<0.0003.
1357.01 *5*	0.43 *3*	2323.09	1$^+$,2$^+$	966.174	2$^+$	(E2)	1.68×10^{-3}	α(K)=0.001399 *20*; α(L)=0.000197 *3*; α(M)=4.31×10^{-5} *6* α(N)=9.95×10^{-6} *14*; α(O)=1.448×10^{-6} *21*; α(P)=8.09×10^{-8} *12*; α(IPF)=3.15×10^{-5} *5* I(ce(K))=0.0004 *1*.
1359.5 *2*	0.7 *1*	1643.28	3$^-$	283.820	4$^+$	E1	8.23×10^{-4}	α(K)=0.000616 *9*; α(L)=8.07×10^{-5} *12*; α(M)=1.748×10^{-5} *25* α(N)=4.04×10^{-6} *6*; α(O)=5.92×10^{-7} *9*; α(P)=3.45×10^{-8} *5*; α(IPF)=0.0001044 *15* I(ce(K))=0.0004 *2*.
1360.2 *2*	0.4 *1*	2719.02	2$^-$	1358.693	2$^-$	E2	1.68×10^{-3}	α(K)=0.001393 *20*; α(L)=0.000196 *3*; α(M)=4.29×10^{-5} *6* α(N)=9.90×10^{-6} *14*; α(O)=1.441×10^{-6} *21*; α(P)=8.05×10^{-8} *12*; α(IPF)=3.23×10^{-5} *5* I(ce(K))=0.0005 *2*.
1361.7 *5*	0.05 *3*	2327.70	2$^+$	966.174	2$^+$			
1362.5 *4*	0.06 *3*	2851.73	1$^-$	1489.503	1$^-$			
1366.06 *5*	0.61 *3*	2630.714	1$^-$	1264.767	2$^-$			
1368.2 *3*	0.5 *1*	1651.95	4$^+$,5,6$^+$	283.820	4$^+$			
1368.7 *3*	0.3 *1*	2767.70	1$^-$	1398.969	3$^-$			
1369.90[e] *4*	4.0[e] *3*	1456.757	0$^+$	86.789	2$^+$	E2	1.66×10^{-3}	α(K)=0.001374 *20*; α(L)=0.000193 *3*; α(M)=4.23×10^{-5} *6* α(N)=9.76×10^{-6} *14*; α(O)=1.420×10^{-6} *20*; α(P)=7.94×10^{-8} *12*; α(IPF)=3.46×10^{-5} *5* I_γ: Iγ=4.5 *3* for the composite peak. I(ce(K))=0.0060 *12*.
1369.90[e] *4*	0.5[e] *1*	1653.66		283.820	4$^+$			I_γ: Iγ=4.5 *3* for the composite peak.
1371.31[e] *7*	0.6[e] *1*	1655.00	2$^+$,3$^+$,4$^+$	283.820	4$^+$	E2	1.65×10^{-3}	α(K)=0.001371 *20*; α(L)=0.000193 *3*; α(M)=4.22×10^{-5} *6* α(N)=9.74×10^{-6} *14*; α(O)=1.417×10^{-6} *20*; α(P)=7.92×10^{-8} *11*; α(IPF)=3.50×10^{-5} *5* I_γ: Iγ=0.81 *8* for the composite peak.
1371.31[e] *7*	0.20[e] *5*	2729.84	2$^-$	1358.693	2$^-$			I_γ: Iγ=0.81 *8* for the composite peak.
1374.7 *2*	0.67 *7*	2661.522	2$^-$	1286.721	3$^-$	E2	1.65×10^{-3}	α(K)=0.001365 *20*; α(L)=0.000192 *3*; α(M)=4.20×10^{-5} *6* α(N)=9.69×10^{-6} *14*; α(O)=1.410×10^{-6} *20*; α(P)=7.89×10^{-8} *11*; α(IPF)=3.59×10^{-5} *5* I(ce(K))=0.0029 *7*.
1375.9[e] *2*	1.2[e] *1*	2661.522	2$^-$	1285.607	1$^-$	E2	1.64×10^{-3}	α(K)=0.001363 *19*; α(L)=0.000192 *3*; α(M)=4.19×10^{-5} *6* α(N)=9.67×10^{-6} *14*; α(O)=1.407×10^{-6} *20*; α(P)=7.87×10^{-8} *11*; α(IPF)=3.62×10^{-5} *5* I_γ: Iγ=1.58 *8* for the composite peak. I(ce(K))=0.0040 *3*.
1375.9[e] *2*	0.4[e] *1*	2734.720	1$^-$	1358.693	2$^-$			I_γ: Iγ=1.58 *8* for the composite peak.
1378.4 *3*	0.08 *3*	3098.98	6$^+$	1720.43	6$^+$			

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [b]	Comments
1379.8 3	0.08 3	2729.84	2⁻	1349.764	2⁺			
[x]1387.1 3	0.09 3							
1388.0[e] 4	0.05[e] 2	2354.631	2⁺	966.174	2⁺			I_γ: Iγ=0.10 5 for the composite peak.
1388.0[e] 4	0.05[e] 2	2674.720	1⁻	1286.721	3⁻			I_γ: Iγ=0.10 5 for the composite peak.
1389.02 5	0.94 6	2674.720	1⁻	1285.607	1⁻	E2,M1	0.0020 5	α(K)=0.0017 4; α(L)=0.00024 5; α(M)=5.1×10^{-5} 11 α(N)=1.19×10^{-5} 24; α(O)=1.7×10^{-6} 4; α(P)=1.01×10^{-7} 24; α(IPF)=4.3×10^{-5} 4 I(ce(K))=0.0016 4.
1393.0 4	0.032 7	2681.828	5⁺	1288.670	5⁺			
1394.9[e] 2	0.04[e] 2	2674.720	1⁻	1279.945	0⁺			I_γ: Iγ=0.16 3 for the composite peak.
1394.9[e] 2	0.10[e] 5	2851.73	1⁻	1456.757	0⁺			I_γ: Iγ=0.16 3 for the composite peak.
1396.71 4	1.06 4	2661.522	2⁻	1264.767	2⁻	E2,M1	0.0020 5	α(K)=0.0017 4; α(L)=0.00023 5; α(M)=5.1×10^{-5} 11 α(N)=1.17×10^{-5} 24; α(O)=1.7×10^{-6} 4; α(P)=9.9×10^{-8} 23; α(IPF)=4.5×10^{-5} 4 I(ce(K))=0.0016 4.
1401.2 1	0.9 3	2367.47	2⁺,3⁺,4⁺	966.174	2⁺	E2	1.59×10^{-3}	α(K)=0.001316 19; α(L)=0.000185 3; α(M)=4.04×10^{-5} 6 α(N)=9.32×10^{-6} 13; α(O)=1.356×10^{-6} 19; α(P)=7.61×10^{-8} 11; α(IPF)=4.29×10^{-5} 6 I(ce(K))=0.0010 2.
1401.8 1	0.20 5	2760.47	1⁺,2⁺	1358.693	2⁻			
1402.7 2	2.6 3	1489.503	1⁻	86.789	2⁺	E1	8.14×10^{-4}	α(K)=0.000583 9; α(L)=7.64×10^{-5} 11; α(M)=1.655×10^{-5} 24 α(N)=3.82×10^{-6} 6; α(O)=5.60×10^{-7} 8; α(P)=3.27×10^{-8} 5; α(IPF)=0.0001329 19 I(ce(K))=0.0014 2.
1407.1 2	0.171 21	2896.28	2⁺	1489.503	1⁻			
1409.0 3	0.5 1	2767.70	1⁻	1358.693	2⁻	E2,M1	0.0020 5	α(K)=0.0016 4; α(L)=0.00023 5; α(M)=5.0×10^{-5} 10 α(N)=1.15×10^{-5} 23; α(O)=1.7×10^{-6} 4; α(P)=9.8×10^{-8} 23; α(IPF)=4.9×10^{-5} 4
1409.7 1	0.20 5	2696.43	2⁻,3⁻	1286.721	3⁻	E2,M1	0.0020 4	α(K)=0.0016 4; α(L)=0.00023 5; α(M)=5.0×10^{-5} 10 α(N)=1.15×10^{-5} 23; α(O)=1.7×10^{-6} 4; α(P)=9.7×10^{-8} 23; α(IPF)=4.9×10^{-5} 4
1409.9 3	0.34 5	2674.720	1⁻	1264.767	2⁻	E2,M1	0.0020 4	α(K)=0.0016 4; α(L)=0.00023 5; α(M)=5.0×10^{-5} 10 α(N)=1.15×10^{-5} 23; α(O)=1.7×10^{-6} 4; α(P)=9.7×10^{-8} 23; α(IPF)=4.9×10^{-5} 4
1410.5 3	1.02 5	1694.368	4⁺	283.820	4⁺	E2,M1	0.0020 4	α(K)=0.0016 4; α(L)=0.00023 5; α(M)=5.0×10^{-5} 10 α(N)=1.15×10^{-5} 23; α(O)=1.7×10^{-6} 4; α(P)=9.7×10^{-8} 23; α(IPF)=4.9×10^{-5} 4 I(ce(K))=0.0030 7.
1410.7 1	0.5 1	2760.47	1⁺,2⁺	1349.764	2⁺	E2,M1	0.0020 4	α(K)=0.0016 4; α(L)=0.00023 5; α(M)=5.0×10^{-5} 10 α(N)=1.15×10^{-5} 23; α(O)=1.7×10^{-6} 4; α(P)=9.7×10^{-8} 23; α(IPF)=4.9×10^{-5} 4
1412.0 3	0.17 7	2697.826	2⁺	1285.607	1⁻			

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	δ [&c]	α [b]	Comments
1415.46 *4*	0.97 *3*	2701.048	1⁻	1285.607	1⁻	E2,M1		0.0020 *4*	α(K)=0.0016 *4*; α(L)=0.00023 *5*; α(M)=4.9×10⁻⁵ *10* α(N)=1.14×10⁻⁵ *23*; α(O)=1.7×10⁻⁶ *4*; α(P)=9.7×10⁻⁸ *22*; α(IPF)=5.1×10⁻⁵ *4* I(ce(K))=0.0020 *4*.
1417.5[e] *3*	0.16[e] *4*	2697.826	2⁺	1279.945	0⁺				I_γ: Iγ=0.35 *10* for the composite peak.
1417.5[e] *3*	0.19[e] *4*	2704.230	2⁻,3⁻	1286.721	3⁻				I_γ: Iγ=0.35 *10* for the composite peak.
1418.63 *4*	1.93 *7*	2704.230	2⁻,3⁻	1285.607	1⁻	E2		1.56×10⁻³	α(K)=0.001285 *18*; α(L)=0.000180 *3*; α(M)=3.94×10⁻⁵ *6* α(N)=9.08×10⁻⁶ *13*; α(O)=1.323×10⁻⁶ *19*; α(P)=7.43×10⁻⁸ *11*; α(IPF)=4.78×10⁻⁵ *7* δ(E2/M1)=+2.1 *+46−10* (1998Kr21), but for a different placement: from 1703, 4⁺ to 284, 4⁺. I(ce(K))=0.0025 *6*.
1421.13 *6*	0.53 *3*	2701.048	1⁻	1279.945	0⁺	E1		8.11×10⁻⁴	α(K)=0.000570 *8*; α(L)=7.47×10⁻⁵ *11*; α(M)=1.617×10⁻⁵ *23* α(N)=3.73×10⁻⁶ *6*; α(O)=5.47×10⁻⁷ *8*; α(P)=3.20×10⁻⁸ *5*; α(IPF)=0.0001455 *21* I(ce(K))=0.0003 *1*.
1423.0 *6*	0.04 *2*	2879.47	2	1456.757	0⁺				
1427.82 *9*	0.50 *3*	2777.62	2⁺,3⁺,4⁺	1349.764	2⁺				
1431.66[e] *3*	2.6[e] *3*	1518.421	2⁺	86.789	2⁺	E2+M1	+2.9 *+21−10*	0.00162 *9*	α(K)=0.00133 *8*; α(L)=0.000186 *10*; α(M)=4.06×10⁻⁵ *22* α(N)=9.4×10⁻⁶ *5*; α(O)=1.37×10⁻⁶ *8*; α(P)=7.8×10⁻⁸ *5*; α(IPF)=5.26×10⁻⁵ *12* I_γ: Iγ=4.58 *12* for the composite peak. I(ce(K))=0.0055 *12*.
1431.66[e] *3*	1.0[e] *2*	2696.43	2⁻,3⁻	1264.767	2⁻				I_γ: Iγ=4.58 *12* for the composite peak.
1431.66[e] *3*	0.9[e] *2*	2717.229	2⁺	1285.607	1⁻				I_γ: Iγ=4.58 *12* for the composite peak.
1433.28 *6*	0.87 *6*	2697.826	2⁺	1264.767	2⁻				E_γ: poor fit. Level-energy difference=1433.04.
1435.6 *1*	0.17 *4*	1522.34	4⁺	86.789	2⁺				
1436.2 *1*	0.71 *4*	2701.048	1⁻	1264.767	2⁻	E2,M1		0.0019 *4*	α(K)=0.0016 *4*; α(L)=0.00022 *5*; α(M)=4.8×10⁻⁵ *10* α(N)=1.10×10⁻⁵ *22*; α(O)=1.6×10⁻⁶ *4*; α(P)=9.4×10⁻⁸ *21*; α(IPF)=5.7×10⁻⁵ *5* I(ce(K))=0.0010 *3*.
1437.5 *3*	0.13 *4*	2717.229	2⁺	1279.945	0⁺				
1439.50[e] *4*	1.0[e] *2*	2704.230	2⁻,3⁻	1264.767	2⁻	E2,M1		0.0019 *4*	α(K)=0.0016 *4*; α(L)=0.00022 *5*; α(M)=4.7×10⁻⁵ *10* α(N)=1.10×10⁻⁵ *22*; α(O)=1.6×10⁻⁶ *4*; α(P)=9.3×10⁻⁸ *21*; α(IPF)=5.8×10⁻⁵ *5* I_γ: Iγ=1.43 *5* for the composite peak. I(ce(K))=0.0016 *4*.
1439.50[e] *4*	0.43[e] *5*	2896.28	2⁺	1456.757	0⁺				I_γ: Iγ=1.43 *5* for the composite peak.
1443.1 *1*	0.15 *4*	2729.84	2⁻	1286.721	3⁻	E2,M1		0.0019 *4*	α(K)=0.0016 *4*; α(L)=0.00022 *5*; α(M)=4.7×10⁻⁵ *10*

γ(^{160}Dy) (continued)

$E_γ$ [†‡]	$I_γ$ [†#]	E_i(level)	$J_i^π$	E_f	$J_f^π$	Mult. [@]	α [b]	Comments
								α(N)=1.09×10^{-5} *22*; α(O)=1.6×10^{-6} *4*; α(P)=9.3×10^{-8} *21*; α(IPF)=6.0×10^{-5} *5*
1444.1 *1*	0.5 *1*	2729.84	2$^-$	1285.607	1$^-$	E2,M1	0.0019 *4*	α(K)=0.0016 *4*; α(L)=0.00022 *5*; α(M)=4.7×10^{-5} *10*
								α(N)=1.09×10^{-5} *22*; α(O)=1.6×10^{-6} *4*; α(P)=9.2×10^{-8} *21*; α(IPF)=6.0×10^{-5} *5*
								I(ce(K))<0.001.
1449.06 *4*	0.409 *16*	2734.720	1$^-$	1285.607	1$^-$	E2	1.51×10^{-3}	α(K)=0.001235 *18*; α(L)=0.0001726 *25*; α(M)=3.77×10^{-5} *6*
								α(N)=8.70×10^{-6} *13*; α(O)=1.267×10^{-6} *18*; α(P)=7.14×10^{-8} *10*; α(IPF)=5.69×10^{-5} *8*
								I(ce(K))=0.00038 *10*.
1452.37 *7*	0.234 *19*	2717.229	2$^+$	1264.767	2$^-$			
1454.2[e] *3*	0.06[e] *2*	2610.01	2$^+$	1155.851	4$^+$			$I_γ$: Iγ=0.157 *18* for the composite peak.
1454.2[e] *3*	0.10[e] *5*	2719.02	2$^-$	1264.767	2$^-$			$I_γ$: Iγ=0.157 *18* for the composite peak.
1456.7[f]		1456.757	0$^+$	0.0	0$^+$	[E0]		presumably conversion electrons from this transition were observed by 2008VaZU who also report B(E0)/B(E2) < 0.0022.
1465.05 *3*	0.595 *13*	2729.84	2$^-$	1264.767	2$^-$	E2	1.49×10^{-3}	α(K)=0.001209 *17*; α(L)=0.0001688 *24*; α(M)=3.69×10^{-5} *6*
								α(N)=8.51×10^{-6} *12*; α(O)=1.240×10^{-6} *18*; α(P)=6.99×10^{-8} *10*; α(IPF)=6.18×10^{-5} *9*
								I(ce(K))=0.0007 *2*.
1470.0 *2*	0.09 *3*	2734.720	1$^-$	1264.767	2$^-$			
1473.06 *3*	2.97 *6*	1756.920	2$^+$	283.820	4$^+$	E2	1.47×10^{-3}	α(K)=0.001197 *17*; α(L)=0.0001670 *24*; α(M)=3.65×10^{-5} *6*
								α(N)=8.41×10^{-6} *12*; α(O)=1.226×10^{-6} *18*; α(P)=6.92×10^{-8} *10*; α(IPF)=6.43×10^{-5} *9*
								I(ce(K))=0.0030 *6*.
1476.25 *8*	0.141 *15*	2994.69	2,3,4	1518.421	2$^+$			
1480.4[e] *2*	0.20[e] *5*	2760.47	1$^+$,2$^+$	1279.945	0$^+$			$I_γ$: Iγ=0.28 *3* for the composite peak.
1480.4[e] *2*	0.08[e] *3*	2879.47	2	1398.969	3$^-$			$I_γ$: Iγ=0.28 *3* for the composite peak.
1481.9 *2*	0.34 *3*	3098.98	6$^+$	1617.28	7$^+$	E2	1.46×10^{-3}	α(K)=0.001184 *17*; α(L)=0.0001650 *24*; α(M)=3.60×10^{-5} *5*
								α(N)=8.31×10^{-6} *12*; α(O)=1.212×10^{-6} *17*; α(P)=6.84×10^{-8} *10*; α(IPF)=6.72×10^{-5} *10*
								I(ce(K))<0.0002.
1489.51 *3*	1.45 *4*	1489.503	1$^-$	0.0	0$^+$	E1	8.07×10^{-4}	α(K)=0.000527 *8*; α(L)=6.88×10^{-5} *10*; α(M)=1.490×10^{-5} *21*
								α(N)=3.44×10^{-6} *5*; α(O)=5.05×10^{-7} *7*; α(P)=2.95×10^{-8} *5*; α(IPF)=0.000193 *3*
								I(ce(K))=0.0005 *2*.
1493.3 *3*	0.081 *9*	2851.73	1$^-$	1358.693	2$^-$			
1500.7 *4*	0.038 *12*	1784.696	4$^-$	283.820	4$^+$			
1502.6 *3*	0.16 *2*	2861.17	1$^+$	1358.693	2$^-$			
1504.4[e] *3*	0.10[e] *5*	2553.5		1049.113	3$^+$			$I_γ$: Iγ=0.14 *2* for the composite peak.
1504.4[e] *3*	0.04[e] *2*	3098.98	6$^+$	1594.38	6$^-$			$I_γ$: Iγ=0.14 *2* for the composite peak.
[x]1507.7 *4*	0.021 *6*							
1510.2 *3*	0.07 *3*	2665.78	2$^+$,3$^+$,4$^+$	1155.851	4$^+$			

$^{160}_{66}Dy_{94}$-45

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	α [b]	Comments
1511.6 *3*	0.06 *3*	2861.17	1+	1349.764	2+			
1518.41[e] *3*	0.5[e] *1*	1518.421	2+	0.0	0+	E2	1.41×10^{-3}	α(K)=0.001131 *16*; α(L)=0.0001571 *22*; α(M)=3.43×10^{-5} *5* α(N)=7.92×10^{-6} *11*; α(O)=1.155×10^{-6} *17*; α(P)=6.53×10^{-8} *10*; α(IPF)=7.93×10^{-5} *12* I_γ: Iγ=1.00 *3* for the composite peak. I(ce(K))=0.0011 *3*.
1518.41[e] *3*	0.45[e] *3*	1802.233	5+	283.820	4+	(E2)	1.41×10^{-3}	α(K)=0.001131 *16*; α(L)=0.0001571 *22*; α(M)=3.43×10^{-5} *5* α(N)=7.92×10^{-6} *11*; α(O)=1.155×10^{-6} *17*; α(P)=6.53×10^{-8} *10*; α(IPF)=7.93×10^{-5} *12* I_γ: Iγ=1.00 *3* for the composite peak.
1518.41[e] *3*	0.05[e] *2*	2877.114	1−	1358.693	2−			I_γ: Iγ=1.00 *3* for the composite peak.
1526.9 *4*	0.019 *9*	2877.114	1−	1349.764	2+			
1532.6 *3*	0.021 *7*	2113.69		581.069	6+			
[x]1535.4 *4*	0.024 *8*							
[x]1544.31 *15*	0.102 *8*							
1546.51 *15*	0.081 *10*	2896.28	2+	1349.764	2+			
1556.48 *6*	0.73 *4*	1643.28	3−	86.789	2+	E1	8.12×10^{-4}	α(K)=0.000489 *7*; α(L)=6.38×10^{-5} *9*; α(M)=1.382×10^{-5} *20* α(N)=3.19×10^{-6} *5*; α(O)=4.68×10^{-7} *7*; α(P)=2.74×10^{-8} *4*; α(IPF)=0.000242 *4* I(ce(K))=0.00025 *8*.
1560.94 *15*	0.108 *5*	2610.01	2+	1049.113	3+	E2	1.36×10^{-3}	α(K)=0.001074 *15*; α(L)=0.0001487 *21*; α(M)=3.24×10^{-5} *5* α(N)=7.49×10^{-6} *11*; α(O)=1.093×10^{-6} *16*; α(P)=6.20×10^{-8} *9*; α(IPF)=9.43×10^{-5} *14* I(ce(K))<0.00018.
1565.9 *1*	0.18 *6*	2851.73	1−	1285.607	1−	E2	1.35×10^{-3}	α(K)=0.001067 *15*; α(L)=0.0001478 *21*; α(M)=3.22×10^{-5} *5* α(N)=7.44×10^{-6} *11*; α(O)=1.086×10^{-6} *16*; α(P)=6.17×10^{-8} *9*; α(IPF)=9.61×10^{-5} *14* I(ce(K))<0.00022.
1568.3 *4*	0.035 *8*	1655.00	2+,3+,4+	86.789	2+			
1572.1 *3*	0.054 *6*	2958.55		1386.455	4−			
1576.30 *8*	0.282 *15*	1860.18	5−	283.820	4+	E1	8.15×10^{-4}	α(K)=0.000479 *7*; α(L)=6.25×10^{-5} *9*; α(M)=1.352×10^{-5} *19* α(N)=3.12×10^{-6} *5*; α(O)=4.58×10^{-7} *7*; α(P)=2.69×10^{-8} *4*; α(IPF)=0.000257 *4* I(ce(K))=0.00009 *3*.
1581.2 *3*	0.050 *11*	2861.17	1+	1279.945	0+			
1583.3 *6*	0.05 *4*	2969.90		1386.455	4−			
1585.63[e] *17*	0.15[e] *3*	1869.518	2+	283.820	4+	E2	1.33×10^{-3}	α(K)=0.001043 *15*; α(L)=0.0001442 *21*; α(M)=3.14×10^{-5} *5* α(N)=7.26×10^{-6} *11*; α(O)=1.060×10^{-6} *15*; α(P)=6.02×10^{-8} *9*; α(IPF)=0.0001035 *15* I_γ: Iγ=0.39 *4* for the composite peak.
1585.63[e] *17*	0.26[e] *4*	2634.74		1049.113	3+			I_γ: Iγ=0.39 *4* for the composite peak.
1586.90 *17*	0.46 *5*	2851.73	1−	1264.767	2−	E2	1.33×10^{-3}	α(K)=0.001041 *15*; α(L)=0.0001439 *21*; α(M)=3.14×10^{-5} *5*

From ENSDF

γ(^{160}Dy) (continued)

E_γ[†‡]	I_γ[†#]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	α[b]	Comments
								α(N)=7.25×10^{-6} *11*; α(O)=1.058×10^{-6} *15*; α(P)=6.02×10^{-8} *9*; α(IPF)=0.0001039 *15* I(ce(K))=0.00068 *18*.
1594.5[f] *4*	0.08 *3*	2297.49	2$^+$	703.0?	(0$^+$)			placement suggested by 2010BoZZ but not fully confirmed.
1599.5 *3*	0.033 *9*	2879.47	2	1279.945	0$^+$			
1606.0 *3*	0.22 *4*	2187.00	4$^+$,5$^+$,6$^+$	581.069	6$^+$	E2	1.31×10^{-3}	α(K)=0.001018 *15*; α(L)=0.0001406 *20*; α(M)=3.07×10^{-5} *5* α(N)=7.08×10^{-6} *10*; α(O)=1.034×10^{-6} *15*; α(P)=5.88×10^{-8} *9*; α(IPF)=0.0001112 *16* I(ce(K))=0.00025 *8*.
1607.6 *3*	0.075 *25*	1694.368	4$^+$	86.789	2$^+$			
1612.35[e] *3*	1.05[e] *7*	2661.522	2$^-$	1049.113	3$^+$	(E1)	8.22×10^{-4}	α(K)=0.000461 *7*; α(L)=6.01×10^{-5} *9*; α(M)=1.301×10^{-5} *19* α(N)=3.00×10^{-6} *5*; α(O)=4.41×10^{-7} *7*; α(P)=2.59×10^{-8} *4*; α(IPF)=0.000284 *4* I_γ: Iγ=1.25 *3* for the composite peak. I(ce(K))=0.0006 *2*. Mult.: 2002Ad34 report mult=E1,(E2). Placement requires E1.
1612.35[e] *3*	0.20[e] *6*	2877.114	1$^-$	1264.767	2$^-$			I_γ: Iγ=1.25 *3* for the composite peak.
1616.7[d] *2*	0.075[d] *5*	2665.78	2$^+$,3$^+$,4$^+$	1049.113	3$^+$			E_γ: in their Table 1, 2002Ad34 place this γ from the 2896 level, but in their Table 2 they also place it from this level. The evaluator has shown it deexciting both levels with the intensity undivided.
1616.7[d] *2*	0.075[d] *5*	2896.28	2$^+$	1279.945	0$^+$			E_γ: this is the placement given by 2002Ad34 in their Table 1, but in their Table 2 they also place it from the 2665.8 level. The evaluator has shown it deexciting both levels with the intensity undivided.
1619.36 *8*	0.75 *5*	1903.210	3$^+$	283.820	4$^+$	E2	1.30×10^{-3}	α(K)=0.001003 *14*; α(L)=0.0001383 *20*; α(M)=3.02×10^{-5} *5* α(N)=6.96×10^{-6} *10*; α(O)=1.017×10^{-6} *15*; α(P)=5.79×10^{-8} *9*; α(IPF)=0.0001164 *17* I(ce(K))=0.0007 *3*.
1621.36 *5*	1.27 *4*	1708.14	0$^+$	86.789	2$^+$	E2	1.29×10^{-3}	α(K)=0.001000 *14*; α(L)=0.0001380 *20*; α(M)=3.01×10^{-5} *5* α(N)=6.95×10^{-6} *10*; α(O)=1.015×10^{-6} *15*; α(P)=5.78×10^{-8} *8*; α(IPF)=0.0001172 *17* I(ce(K))=0.0012 *4*.
1636.41 *9*	0.088 *5*	2602.67	1$^-$,2$^-$	966.174	2$^+$			
1639.1 *5*	0.02 *1*	2605.76	2$^+$,3$^+$,4$^+$	966.174	2$^+$			
1644.0 *4*	0.025 *5*	2610.01	2$^+$	966.174	2$^+$			
1647.2 *2*	0.067 *7*	2696.43	2$^-$,3$^-$	1049.113	3$^+$			
1655.15 *4*	0.69 *3*	2704.230	2$^-$,3$^-$	1049.113	3$^+$			
1664.55 *3*	1.92 *8*	2630.714	1$^-$	966.174	2$^+$	E1	8.33×10^{-4}	α(K)=0.000437 *7*; α(L)=5.70×10^{-5} *8*; α(M)=1.233×10^{-5} *18* α(N)=2.85×10^{-6} *4*; α(O)=4.18×10^{-7} *6*; α(P)=2.45×10^{-8} *4*; α(IPF)=0.000323 *5* I(ce(K))=0.0010 *3*.
1668.3[e] *3*	0.16[e] *3*	2634.74		966.174	2$^+$			I_γ: Iγ=0.32 *3* for the composite peak.
1668.3[e] *3*	0.16[e] *4*	2717.229	2$^+$	1049.113	3$^+$			I_γ: Iγ=0.32 *3* for the composite peak.

γ(^{160}Dy) (continued)

E_γ[†‡]	I_γ[†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[@]	δ[&c]	α[b]	$I_{(\gamma+ce)}$[†]	Comments
1669.8 *1*	0.15 *3*	2719.02	2^-	1049.113	3^+					
1670.14 *13*	1.4 *2*	1756.920	2^+	86.789	2^+	E2		1.25×10^{-3}		α(K)=0.000947 *14*; α(L)=0.0001302 *19*; α(M)=2.84×10^{-5} *4* α(N)=6.55×10^{-6} *10*; α(O)=9.57×10^{-7} *14*; α(P)=5.47×10^{-8} *8*; α(IPF)=0.0001368 *20* I(ce(K))=0.0013 *4*.
1671.9[e] *5*	0.15[e] *7*	2720.58	3^-	1049.113	3^+	(E1)		8.34×10^{-4}		α(K)=0.000434 *6*; α(L)=5.65×10^{-5} *8*; α(M)=1.224×10^{-5} *18* α(N)=2.83×10^{-6} *4*; α(O)=4.15×10^{-7} *6*; α(P)=2.44×10^{-8} *4*; α(IPF)=0.000328 *5* I_γ: Iγ=0.15 *7* for the composite peak. Mult.: 2002Ad34 report mult=E1,E2. Placement requires E1. I(ce(K))<0.00019.
1671.9[e] *5*	0.05[e] *2*	2958.55		1286.721	3^-					I_γ: Iγ=0.15 *7* for the composite peak.
[x]1676.3 *4*	0.05 *2*									
1683.28[d] *25*	0.028[d] *14*	2969.04	1,2	1285.607	1^-					I_γ: Iγ=0.028 *6* for the composite peak.
1683.28[d] *25*	0.028[d] *14*	2969.90		1286.721	3^-					I_γ: Iγ=0.028 *6* for the composite peak.
[x]1687.7 *5*	0.029 *14*									
1693.75 *25*	0.10 *3*	2958.55		1264.767	2^-	E2		1.23×10^{-3}		α(K)=0.000922 *13*; α(L)=0.0001266 *18*; α(M)=2.76×10^{-5} *4* α(N)=6.37×10^{-6} *9*; α(O)=9.31×10^{-7} *13*; α(P)=5.33×10^{-8} *8*; α(IPF)=0.0001467 *21* I(ce(K))=0.00026 *9*.
1695.30 *6*	0.523 *20*	2661.522	2^-	966.174	2^+	E1		8.40×10^{-4}		α(K)=0.000424 *6*; α(L)=5.52×10^{-5} *8*; α(M)=1.195×10^{-5} *17* α(N)=2.76×10^{-6} *4*; α(O)=4.05×10^{-7} *6*; α(P)=2.38×10^{-8} *4*; α(IPF)=0.000346 *5* I(ce(K))=0.00011 *5*.
1699.55 *6*	0.079 *6*	2665.78	$2^+,3^+,4^+$	966.174	2^+					
1704.3 *4*	0.018 *8*	2969.04	1,2	1264.767	2^-					
1707.6 *4*	0.020 *8*	2757.13		1049.113	3^+					
1708.2		1708.14	0^+	0.0	0^+	(E0)			0.0038	E_γ,Mult.: from 2009Ad04. $I_{(\gamma+ce)}$: calculated by evaluator based on measured I(ce(K)) and ratio of electronic factors Ω_K(E0)\Ω(E0)=0.877. I(ce(K))=0.0033 (2009Ad04). B(E0)/B(E2)=0.6 (2009Ad04). presumably conversion electrons from this transition were observed by 2008VaZU who also reports B(E0)/B(E2)=1.3 *3*.

From ENSDF

$^{160}_{66}$Dy$_{94}$-48

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	δ [&c]	α [b]	Comments
1717.92 *3*	3.88 *11*	1804.675	1$^+$	86.789	2$^+$	M1+E2	−2.1 +*9*−*13*	0.00130 *11*	α(K)=0.00097 *9*; α(L)=0.000132 *11*; α(M)=2.88×10^{-5} *24* α(N)=6.6×10^{-6} *6*; α(O)=9.7×10^{-7} *9*; α(P)=5.6×10^{-8} *6*; α(IPF)=0.000162 *7* δ: from 1994SlZZ. 1998Kr21 report −1.4≤δ≤−0.4 for J=1 and δ=+3.6 +*71*−*16* for J=2. I(ce(K))=0.0036 *6*.
1723.9 *4*	0.051 *8*	2879.47	2	1155.851	4$^+$				
1729.3 *5*	0.050 *9*	2012.85	2$^+$	283.820	4$^+$				
1731.62 *4*	0.50 *2*	2697.826	2$^+$	966.174	2$^+$	E2		1.20×10^{-3}	α(K)=0.000885 *13*; α(L)=0.0001213 *17*; α(M)=2.64×10^{-5} *4* α(N)=6.10×10^{-6} *9*; α(O)=8.92×10^{-7} *13*; α(P)=5.11×10^{-8} *8*; α(IPF)=0.0001628 *23* I(ce(K))=0.00060 *15*.
1735.0 *5*	0.018 *8*	2701.048	1$^-$	966.174	2$^+$				
1737.9 *2*	0.035 *5*	2704.230	2$^-$,3$^-$	966.174	2$^+$				
1750.8 *2*	0.078 *6*	2717.229	2$^+$	966.174	2$^+$				
1754.32 *6*	0.125 *8*	2720.58	3$^-$	966.174	2$^+$				
1760.9[f] *4*	0.017 *5*	2727.20	(4)	966.174	2$^+$				
1765.6 *3*	0.08 *4*	2049.51	2$^+$,3	283.820	4$^+$				
1768.2 *4*	0.016 *5*	2734.720	1$^-$	966.174	2$^+$				
1775.14 *9*	0.049 *7*	3061.83	1$^+$	1286.721	3$^-$				
1782.73 *4*	1.71 *7*	1869.518	2$^+$	86.789	2$^+$	E2		1.17×10^{-3}	α(K)=0.000839 *12*; α(L)=0.0001146 *16*; α(M)=2.50×10^{-5} *4* α(N)=5.76×10^{-6} *8*; α(O)=8.43×10^{-7} *12*; α(P)=4.84×10^{-8} *7*; α(IPF)=0.000185 *3* I(ce(K))=0.0012 *3*.
[x]1786.6 *4*	0.026 *12*								
[x]1795.0 *3*	0.033 *14*								
1797.6 *4*	0.026 *12*	3061.83	1$^+$	1264.767	2$^-$				
1804.68 *4*	1.81 *5*	1804.675	1$^+$	0.0	0$^+$	M1		1.55×10^{-3}	α(K)=0.001126 *16*; α(L)=0.0001528 *22*; α(M)=3.33×10^{-5} *5* α(N)=7.70×10^{-6} *11*; α(O)=1.135×10^{-6} *16*; α(P)=6.72×10^{-8} *10*; α(IPF)=0.000230 *4* Mult.: 2002Ad34 report mult=M1,E2. Placement requires M1. I(ce(K))=0.0018 *4*.
1811.6 *2*	0.031 *8*	2861.17	1$^+$	1049.113	3$^+$				
1813.1 *2*	0.05 *2*	2096.896	4$^+$	283.820	4$^+$				
1813.9 *1*	0.10 *5*	2969.90		1155.851	4$^+$				
1816.39 *3*	1.13 *3*	1903.210	3$^+$	86.789	2$^+$	E2		1.15×10^{-3}	α(K)=0.000810 *12*; α(L)=0.0001105 *16*; α(M)=2.41×10^{-5} *4*

From ENSDF

$^{160}_{66}$Dy$_{94}$-49

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	α [b]	Comments
								α(N)=5.56×10^{-6} *8*; α(O)=8.14×10^{-7} *12*; α(P)=4.68×10^{-8} *7*; α(IPF)=0.000200 *3* I(ce(K))=0.0009 *2*.
^{x}1822.4 *3*	0.024 *5*							
1822.4	0.024	2503.80	1$^+$,2$^+$	681.3?	(0$^+$)			E_γ: from 2009Ad04.
1830.6 *4*	0.05 *2*	2879.47	2	1049.113	3$^+$			
1836.49 *6*	0.12 *4*	2885.59		1049.113	3$^+$			
1842.9 *2*	0.046 *5*	2126.37	3$^-$	283.820	4$^+$			
1846.9[e] *2*	0.04[e] *2*	2130.586	3$^-$	283.820	4$^+$			I_γ: Iγ=0.094 *9* for the composite peak.
1846.9[e] *2*	0.05[e] *2*	2896.28	2$^+$	1049.113	3$^+$			I_γ: Iγ=0.094 *9* for the composite peak.
^{x}1852.0 *4*	0.028 *6*							
1856.38 *5*	0.23 *2*	2140.15	(3)	283.820	4$^+$			Mult.: 2002Ad34 propose mult=(E2,M1). I(ce(K))<0.00041.
1857.9 *2*	0.058 *10*	2141.67	2$^+$,3,4$^+$	283.820	4$^+$			
1865.56 *4*	0.61 *3*	1952.31	0$^+$	86.789	2$^+$	E2	1.13×10^{-3}	α(K)=0.000772 *11*; α(L)=0.0001050 *15*; α(M)=2.29×10^{-5} *4* α(N)=5.28×10^{-6} *8*; α(O)=7.73×10^{-7} *11*; α(P)=4.46×10^{-8} *7*; α(IPF)=0.000222 *4* Mult.: 2002Ad34 report mult=M1,E2. Placement requires E2. I(ce(K))=0.0005 *2*.
1869.55 *6*	0.71 *3*	1869.518	2$^+$	0.0	0$^+$	E2	1.13×10^{-3}	α(K)=0.000769 *11*; α(L)=0.0001046 *15*; α(M)=2.28×10^{-5} *4* α(N)=5.26×10^{-6} *8*; α(O)=7.70×10^{-7} *11*; α(P)=4.44×10^{-8} *7*; α(IPF)=0.000224 *4* Mult.: 2002Ad34 report mult=M1,E2. Placement requires E2. I(ce(K))=0.0006 *2*.
1871.5 *2*	0.158 *8*	2155.33		283.820	4$^+$			
^{x}1884.0 *3*	0.032 *8*							
^{x}1889.1 *3*	0.019 *5*							
1891.5 *5*	0.014 *6*	2858.17		966.174	2$^+$			
1903.17 *9*	0.053 *5*	2187.00	4$^+$,5$^+$,6$^+$	283.820	4$^+$			
1907.20 *7*	0.059 *6*	2191.03		283.820	4$^+$			
1910.58 *6*	0.079 *9*	2194.44	5$^+$	283.820	4$^+$			
1916.95 *13*	0.154 *18*	2200.82	2$^+$,3,4$^+$	283.820	4$^+$			
1919.38 *15*	0.205 *10*	2885.59		966.174	2$^+$	(E1)	9.15×10^{-4}	α(K)=0.000346 *5*; α(L)=4.49×10^{-5} *7*; α(M)=9.72×10^{-6} *14* α(N)=2.25×10^{-6} *4*; α(O)=3.30×10^{-7} *5*; α(P)=1.95×10^{-8} *3*; α(IPF)=0.000512 *8* I(ce(K))<0.0001.
1922.71 *4*	1.94 *6*	2009.535	1$^-$,2$^-$	86.789	2$^+$	E1	9.17×10^{-4}	α(K)=0.000345 *5*; α(L)=4.48×10^{-5} *7*; α(M)=9.69×10^{-6} *14* α(N)=2.24×10^{-6} *4*; α(O)=3.29×10^{-7} *5*; α(P)=1.94×10^{-8} *3*; α(IPF)=0.000514 *8* I(ce(K))=0.0007 *2*.
1926.0 *3*	0.068 *13*	2012.85	2$^+$	86.789	2$^+$			
1928.4 *7*	0.041 *20*	2977.54		1049.113	3$^+$			
1930.0 *2*	0.26 *3*	2896.28	2$^+$	966.174	2$^+$			
1937.7 *5*	0.026 *8*	2904.36	2,3,4	966.174	2$^+$			

γ(^{160}Dy) (continued)

E_γ[†‡]	I_γ[†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[@]	α[b]	$I_{(\gamma+ce)}$[†]	Comments
^{x}1939.9 *5*	0.031 *9*								
1946.3 *3*	0.025 *5*	2230.52	2^+	283.820	4^+				
1952.6 *4*		1952.31	0^+	0.0	0^+	E0		0.0017 *2*	$I_{(\gamma+ce)}$: calculated by evaluator based on measured I(ce(K)) and ratio of electronic factors Ω_K(E0)\\Ω(E0)=0.877. I(ce(K))=0.0015 *2* (2002Ad34). B(E0)/B(E2)=0.9 (2009Ad04).
^{x}1955.29 *8*	0.060 *5*								
1960.9 *3*	0.075 *15*	2244.94	2^+,3,4^+	283.820	4^+				
1962.7 *5*	0.026 *11*	2049.51	2^+,3	86.789	2^+				
1981.28 *15*	0.17 *2*	2068.08	1^-	86.789	2^+				
1983.15 *4*	0.659 *23*	2266.98	3^-	283.820	4^+	E1	9.41×10^{-4}		α(K)=0.000329 *5*; α(L)=4.26×10^{-5} *6*; α(M)=9.21×10^{-6} *13* α(N)=2.13×10^{-6} *3*; α(O)=3.13×10^{-7} *5*; α(P)=1.85×10^{-8} *3*; α(IPF)=0.000558 *8* I(ce(K))=0.00032 *8*.
^{x}1987.4 *2*	0.023 *4*								
1995.22 *10*	0.084 *9*	2279.05		283.820	4^+				
1998.04 *4*	0.89 *4*	2084.814	$(1,2)^+$	86.789	2^+	M1,E2	0.00123 *15*		α(K)=0.00079 *11*; α(L)=0.000106 *15*; α(M)=2.3×10^{-5} *4* α(N)=5.4×10^{-6} *8*; α(O)=7.9×10^{-7} *11*; α(P)=4.6×10^{-8} *7*; α(IPF)=0.00031 *3* I(ce(K))=0.0010 *2*.
2002.01 *4*	0.70 *4*	2088.85	1^-,2^-,3^-	86.789	2^+	E1	9.49×10^{-4}		α(K)=0.000324 *5*; α(L)=4.19×10^{-5} *6*; α(M)=9.07×10^{-6} *13* α(N)=2.10×10^{-6} *3*; α(O)=3.08×10^{-7} *5*; α(P)=1.82×10^{-8} *3*; α(IPF)=0.000571 *8* I(ce(K))=0.0004 *2*.
2004.1 *3*	0.25 *3*	2090.88	2^-,3^-	86.789	2^+				
^{x}2007.1 *3*	0.035 *5*								
2009.6[e] *3*	0.03[e] *1*	2009.535	1^-,2^-	0.0	0^+				I_γ: Iγ=0.054 *7* for the composite peak.
2009.6[e] *3*	0.03[e] *1*	2096.896	4^+	86.789	2^+				I_γ: Iγ=0.054 *7* for the composite peak.
2013.3 *5*	0.014 *6*	2012.85	2^+	0.0	0^+				
^{x}2019.85 *5*	0.180 *5*					E2	1.08×10^{-3}		α(K)=0.000668 *10*; α(L)=9.02×10^{-5} *13*; α(M)=1.96×10^{-5} *3* α(N)=4.53×10^{-6} *7*; α(O)=6.65×10^{-7} *10*; α(P)=3.85×10^{-8} *6*; α(IPF)=0.000294 *5* I(ce(K))=0.00026 *9*.
2026.0 *2*	0.051 *9*	2309.91	2^+,3,4^+	283.820	4^+				
2039.7 *2*	0.037 *7*	2126.37	3^-	86.789	2^+				
2043.87[e] *5*	0.33[e] *5*	2130.586	3^-	86.789	2^+	E1	9.66×10^{-4}		α(K)=0.000313 *5*; α(L)=4.06×10^{-5} *6*; α(M)=8.77×10^{-6} *13* α(N)=2.03×10^{-6} *3*; α(O)=2.98×10^{-7} *5*; α(P)=1.759×10^{-8} *25*; α(IPF)=0.000601 *9*

From ENSDF

γ(^{160}Dy) (continued)

Eγ[†‡]	Iγ[†#]	Ei(level)	J^π_i	Ef	J^π_f	Mult.[@]	α[b]	Comments
								Iγ: Iγ=0.403 *14* for the composite peak. I(ce(K))=0.0003 *10*.
2043.87[e] *5*	0.07[e] *2*	2327.70	2+	283.820	4+			Iγ: Iγ=0.403 *14* for the composite peak.
2051.42 *5*	0.490 *15*	2138.21	2+	86.789	2+	E2,M1	0.00121 *15*	α(K)=0.00074 *10*; α(L)=0.000101 *13*; α(M)=2.2×10^{-5} *3* α(N)=5.1×10^{-6} *7*; α(O)=7.4×10^{-7} *10*; α(P)=4.4×10^{-8} *7*; α(IPF)=0.00034 *3* I(ce(K))=0.0005 *2*.
2054.8 *2*	0.089 *15*	2141.67	2+,3,4+	86.789	2+			
2057.76[f] *5*	0.180 *5*	2144.56?		86.789	2+			
2063.1 *4*	0.11 *5*	2149.84	1,2	86.789	2+			
2068.07 *4*	2.75 *9*	2068.08	1−	0.0	0+	E1	9.76×10^{-4}	α(K)=0.000307 *5*; α(L)=3.98×10^{-5} *6*; α(M)=8.61×10^{-6} *12* α(N)=1.99×10^{-6} *3*; α(O)=2.92×10^{-7} *4*; α(P)=1.727×10^{-8} *25*; α(IPF)=0.000618 *9* I(ce(K))=0.0007 *2*.
2084.79 *4*	1.37 *5*	2084.814	(1,2)+	0.0	0+	M1,E2	0.00120 *14*	α(K)=0.00072 *9*; α(L)=9.7×10^{-5} *13*; α(M)=2.1×10^{-5} *3* α(N)=4.9×10^{-6} *7*; α(O)=7.2×10^{-7} *10*; α(P)=4.2×10^{-8} *6*; α(IPF)=0.00035 *3* I(ce(K))=0.0009 *2*.
2090.71 *5*	0.122 *10*	2374.50		283.820	4+			
[x]2095.84 *5*	0.195 *8*							
2109.80 *13*	0.062 *18*	2393.55	2,3−	283.820	4+			
2114.02 *4*	0.15 *2*	2200.82	2+,3,4+	86.789	2+			
2122.0 *1*	0.3 *1*	2208.79	(2)−	86.789	2+			
2132.1 *3*	0.05 *1*	3098.98	6+	966.75	8+			
2138.2 *2*	0.12 *6*	2138.21	2+	0.0	0+	E2	1.06×10^{-3}	α(K)=0.000602 *9*; α(L)=8.10×10^{-5} *12*; α(M)=1.762×10^{-5} *25* α(N)=4.07×10^{-6} *6*; α(O)=5.97×10^{-7} *9*; α(P)=3.47×10^{-8} *5*; α(IPF)=0.000350 *5* I(ce(K))=0.00022 *6*.
2143.8 *2*	0.077 *16*	2230.52	2+	86.789	2+			
2146.6 *6*	0.019 *7*	2727.20	(4)	581.069	6+			
2149.82 *13*	0.036 *10*	2149.84	1,2	0.0	0+			
2158.28 *15*	0.11 *2*	2244.94	2+,3,4+	86.789	2+			
2168.87 *6*	0.24 *4*	2255.67	1+,2+	86.789	2+	E2,M1	0.00118 *13*	α(K)=0.00066 *8*; α(L)=8.9×10^{-5} *11*; α(M)=1.95×10^{-5} *24* α(N)=4.5×10^{-6} *6*; α(O)=6.6×10^{-7} *9*; α(P)=3.9×10^{-8} *6*; α(IPF)=0.00040 *4* I(ce(K))=0.003 *1*.
2180.2 *2*	0.60 *4*	2266.98	3−	86.789	2+	E1	1.02×10^{-3}	α(K)=0.000283 *4*; α(L)=3.66×10^{-5} *6*; α(M)=7.91×10^{-6} *11* α(N)=1.83×10^{-6} *3*; α(O)=2.69×10^{-7} *4*; α(P)=1.589×10^{-8} *23*; α(IPF)=0.000695 *10* I(ce(K))=0.00020 *6*.

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	δ [&c]	α [b]	Comments
2184.43 *4*	3.36 *10*	2271.253	2⁻	86.789	2⁺	E1(+M2)	−0.09 *10*	0.00103 *4*	α(K)=0.00029 *4*; α(L)=3.8×10^{-5} *5*; α(M)=8.2×10^{-6} *11* α(N)=1.9×10^{-6} *3*; α(O)=2.8×10^{-7} *4*; α(P)=1.65×10^{-8} *22*; α(IPF)=0.000694 *16* I(ce(K))=0.0007 *2*. A_2=−0.31 *13*.
2191.17 *10*	0.102 *12*	2474.97	2⁺,3,4⁺	283.820	4⁺				
2210.8 *2*	0.057 *8*	2297.49	2⁺	86.789	2⁺				
2223.1 *3*	0.089 *12*	2309.91	2⁺,3,4⁺	86.789	2⁺				
2230.52 *8*	0.182 *16*	2230.52	2⁺	0.0	0⁺				
2236.21 *8*	0.35 *5*	2323.09	1⁺,2⁺	86.789	2⁺	E2		1.05×10^{-3}	α(K)=0.000555 *8*; α(L)=7.45×10^{-5} *11*; α(M)=1.619×10^{-5} *23* α(N)=3.74×10^{-6} *6*; α(O)=5.49×10^{-7} *8*; α(P)=3.20×10^{-8} *5*; α(IPF)=0.000397 *6* Mult.: 2002Ad34 report mult=(E1),E2. Placement requires E2. I(ce(K))=0.00016 *6*.
2240.89 *7*	0.158 *15*	2327.70	2⁺	86.789	2⁺	E2		1.05×10^{-3}	α(K)=0.000553 *8*; α(L)=7.42×10^{-5} *11*; α(M)=1.613×10^{-5} *23* α(N)=3.73×10^{-6} *6*; α(O)=5.47×10^{-7} *8*; α(P)=3.19×10^{-8} *5*; α(IPF)=0.000399 *6* I(ce(K))=0.00022 *6*.
ˣ2243.3 *5*	0.020 *6*								
2255.2 *5*	0.025 *13*	2255.67	1⁺,2⁺	0.0	0⁺				
2267.73 *8*	0.254 *12*	2354.631	2⁺	86.789	2⁺	E0+M1+E2			α(exp)=0.0028 *12* α: calculated by evaluator based on measured I(ce(K)) and Iγ, calculated α(K) and α (assuming δ=1 for E2+M1), and electronic factors Ω_K(E0) and Ω(E0), respectively. I(ce(K))=0.00036 *9*.
2272.8 *5*	0.023 *5*	2853.68		581.069	6⁺				
2276.17 *10*	0.131 *5*	2560.02	2⁺,3,4⁺	283.820	4⁺				
ˣ2285.0 *8*	0.014 *8*								
2288.6 *3*	0.145 *12*	2572.4	3⁺,4⁺,5⁺	283.820	4⁺	M1		1.27×10^{-3}	α(K)=0.000656 *10*; α(L)=8.85×10^{-5} *13*; α(M)=1.93×10^{-5} *3* α(N)=4.45×10^{-6} *7*; α(O)=6.57×10^{-7} *10*; α(P)=3.90×10^{-8} *6*; α(IPF)=0.000500 *7*
ˣ2291.9 *4*	0.035 *4*								
2297.6 *4*	0.035 *12*	2297.49	2⁺	0.0	0⁺				
2299.8 *4*	0.042 *12*	2386.90	2⁺,3⁺	86.789	2⁺				
ˣ2303.5 *3*	0.038 *15*								
2307.0 *3*	0.051 *10*	2393.55	2,3⁻	86.789	2⁺				
2310.1 *5*	0.024 *6*	2396.92	1,2	86.789	2⁺				
2321.94 *8*	0.10 *1*	2605.76	2⁺,3⁺,4⁺	283.820	4⁺	E2,M1		0.00115 *11*	α(K)=0.00058 *6*; α(L)=7.8×10^{-5} *9*;

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	α [b]	Comments
								α(M)=1.69×10^{-5} *18* α(N)=3.9×10^{-6} *5*; α(O)=5.7×10^{-7} *7*; α(P)=3.4×10^{-8} *4*; α(IPF)=0.00048 *5*
2325.22 *9*	0.108 *15*	2325.24	1$^+$,2$^+$	0.0	0$^+$	E2,M1	0.00115 *11*	α(K)=0.00058 *6*; α(L)=7.7×10^{-5} *9*; α(M)=1.68×10^{-5} *18* α(N)=3.9×10^{-6} *5*; α(O)=5.7×10^{-7} *7*; α(P)=3.4×10^{-8} *4*; α(IPF)=0.00048 *5*
2327.4 *4*	0.039 *12*	2327.70	2$^+$	0.0	0$^+$			
[x]2331.3 *3*	0.019 *6*							
[x]2340.0 *5*	0.013 *6*							
[x]2343.0 *3*	0.034 *5*							
[x]2345.5 *9*	0.010 *5*							
2354.54 *7*	0.23 *2*	2354.631	2$^+$	0.0	0$^+$	E2	1.05×10^{-3}	α(K)=0.000506 *7*; α(L)=6.77×10^{-5} *10*; α(M)=1.471×10^{-5} *21* α(N)=3.40×10^{-6} *5*; α(O)=4.99×10^{-7} *7*; α(P)=2.92×10^{-8} *4*; α(IPF)=0.000453 *7* Mult.: 2002Ad34 report mult=M1,E2. Placement requires E2.
2362.0 *3*	0.28 *9*	2645.88	3$^-$	283.820	4$^+$	E1	1.11×10^{-3}	α(K)=0.000250 *4*; α(L)=3.22×10^{-5} *5*; α(M)=6.96×10^{-6} *10* α(N)=1.608×10^{-6} *23*; α(O)=2.37×10^{-7} *4*; α(P)=1.402×10^{-8} *20*; α(IPF)=0.000815 *12*
2363.1[e] *4*	0.20[e] *5*	2450.26	1$^-$	86.789	2$^+$			I_γ: Iγ=0.28 *9* for the composite peak.
2363.1[e] *4*	0.10[e] *5*	2647.31	(3)$^-$	283.820	4$^+$			I_γ: Iγ=0.28 *9* for the composite peak.
[x]2365.6 *5*	0.025 *8*							
[x]2376.65 *15*	0.051 *8*							
[x]2379.4 *5*	0.05 *2*							
2382.02 *9*	0.30 *2*	2665.78	2$^+$,3$^+$,4$^+$	283.820	4$^+$	E2,M1	0.00115 *11*	α(K)=0.00055 *6*; α(L)=7.4×10^{-5} *8*; α(M)=1.60×10^{-5} *16* α(N)=3.7×10^{-6} *4*; α(O)=5.4×10^{-7} *6*; α(P)=3.2×10^{-8} *4*; α(IPF)=0.00051 *5*
[x]2384.22 *10*	0.14 *2*							
2387.90 *25*	0.050 *11*	2474.97	2$^+$,3,4$^+$	86.789	2$^+$			
[x]2390.68 *14*	0.193 *10*					E1	1.12×10^{-3}	α(K)=0.000245 *4*; α(L)=3.16×10^{-5} *5*; α(M)=6.83×10^{-6} *10* α(N)=1.577×10^{-6} *22*; α(O)=2.32×10^{-7} *4*; α(P)=1.376×10^{-8} *20*; α(IPF)=0.000833 *12*
[x]2392.9 *3*	0.052 *8*							
2396.90 *22*	0.022 *5*	2396.92	1,2	0.0	0$^+$			
[x]2399.87 *21*	0.040 *18*							
[x]2409.9 *4*	0.017 *4*							
2414.2 *2*	0.062 *9*	2697.826	2$^+$	283.820	4$^+$			
2417.2 *2*	0.058 *5*	2503.80	1$^+$,2$^+$	86.789	2$^+$	M1	1.25×10^{-3}	α(K)=0.000581 *9*; α(L)=7.82×10^{-5} *11*; α(M)=1.701×10^{-5} *24* α(N)=3.94×10^{-6} *6*; α(O)=5.80×10^{-7} *9*; α(P)=3.45×10^{-8} *5*; α(IPF)=0.000572 *8*
[x]2421.46 *6*	0.099 *10*							
[x]2425.87 *8*	0.095 *12*							
2433.33 *6*	0.50 *4*	2717.229	2$^+$	283.820	4$^+$	(E2)	1.05×10^{-3}	α(K)=0.000477 *7*; α(L)=6.37×10^{-5} *9*; α(M)=1.384×10^{-5} *20*

$^{160}_{66}Dy_{94}$-54

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	δ [&c]	α [b]	$I_{(\gamma+ce)}$ [†]	Comments
										α(N)=3.20×10^{-6} *5*; α(O)=4.70×10^{-7} *7*; α(P)=2.75×10^{-8} *4*; α(IPF)=0.000490 *7* Mult.: 2002Ad34 report mult=M1,E2. Placement requires E2.
2436.80 *8*	0.25 *3*	2720.58	3$^-$	283.820	4$^+$	E1		1.14×10^{-3}		α(K)=0.000238 *4*; α(L)=3.07×10^{-5} *5*; α(M)=6.63×10^{-6} *10* α(N)=1.531×10^{-6} *22*; α(O)=2.25×10^{-7} *4*; α(P)=1.336×10^{-8} *19*; α(IPF)=0.000862 *12*
2443.35 *10*	0.129 *15*	2727.20	(4)	283.820	4$^+$					
2450.25 *6*	0.4 *1*	2450.26	1$^-$	0.0	0$^+$	E1		1.14×10^{-3}		α(K)=0.000236 *4*; α(L)=3.04×10^{-5} *5*; α(M)=6.57×10^{-6} *10* α(N)=1.518×10^{-6} *22*; α(O)=2.23×10^{-7} *4*; α(P)=1.325×10^{-8} *19*; α(IPF)=0.000870 *13* Mult.: 2002Ad34 report mult=E1,E2. Placement requires E1.
^{x}2458.81 *12*	0.055 *5*									
^{x}2466.3 *3*	0.077 *11*									
^{x}2468.5 *7*	0.035 *10*									
2471.2 *2*	0.123 *15*	2755.04		283.820	4$^+$					
2473.3[e] *2*	0.08[e] *2*	2560.02	2$^+$,3,4$^+$	86.789	2$^+$					I_γ: Iγ=0.136 *13* for the composite peak.
2473.3[e] *2*	0.06[e] *2*	2757.13		283.820	4$^+$					I_γ: Iγ=0.136 *13* for the composite peak.
2479.14 *6*	0.38 *3*	2763.05		283.820	4$^+$	E2		1.05×10^{-3}		α(K)=0.000462 *7*; α(L)=6.16×10^{-5} *9*; α(M)=1.337×10^{-5} *19* α(N)=3.09×10^{-6} *5*; α(O)=4.54×10^{-7} *7*; α(P)=2.66×10^{-8} *4*; α(IPF)=0.000512 *8* I(ce(K))=0.00015 *4*.
^{x}2486.27 *13*	0.117 *12*									
2488.26 *20*	0.74 *14*	2772.10		283.820	4$^+$					
2493.87 *6*	0.42 *2*	2777.62	2$^+$,3$^+$,4$^+$	283.820	4$^+$	E2,M1		0.00115 *10*		α(K)=0.00050 *5*; α(L)=6.7×10^{-5} *6*; α(M)=1.45×10^{-5} *14* α(N)=3.4×10^{-6} *3*; α(O)=5.0×10^{-7} *5*; α(P)=2.9×10^{-8} *3*; α(IPF)=0.00057 *5*
^{x}2499.3 *5*	0.023 *5*									
^{x}2502.2 *3*	0.098 *20*									
^{x}2504.6 *2*	0.18 *3*									
^{x}2507.95 *21*	0.028 *6*									
2515.86 *5*	0.21 *2*	2602.67	1$^-$,2$^-$	86.789	2$^+$					
2518.7[e] *9*	0.03[e] *1*	2605.76	2$^+$,3$^+$,4$^+$	86.789	2$^+$					I_γ: Iγ=0.102 *20* for the composite peak.
2518.7[e] *9*	0.07[e] *2*	3098.98	6$^+$	581.069	6$^+$					I_γ: Iγ=0.102 *20* for the composite peak.
^{x}2520.2 *6*	0.06 *4*									
2523.0 *2*	0.049 *8*	2610.01	2$^+$	86.789	2$^+$					
^{x}2529.9 *3*	0.021 *6*									
^{x}2531.9 *6*	0.017 *8*									

$^{160}_{66}$Dy$_{94}$-55

γ(^{160}Dy) (continued)

E_γ[†‡]	I_γ[†#]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	δ[&c]	α[b]	Comments
[x]2536.38 *8*	0.013 *2*								
2543.95 *5*	6.0 *3*	2630.714	1$^-$	86.789	2$^+$	E1(+M2)	+0.03 *9*	1.19×10^{-3} *2*	α(K)=0.000223 *13*; α(L)=2.88×10^{-5} *18*; α(M)=6.2×10^{-6} *4* α(N)=1.44×10^{-6} *9*; α(O)=2.12×10^{-7} *13*; α(P)=1.26×10^{-8} *8*; α(IPF)=0.000926 *15* I(ce(K))=0.0011 *2*. A$_2$=+0.10 *9*.
2548.2 *3*	0.069 *8*	2634.74		86.789	2$^+$				
2550.1 *3*	0.07 *3*	2833.85	2,3,4	283.820	4$^+$				
2559.1 *3*	0.69 *9*	2645.88	3$^-$	86.789	2$^+$	E1		1.19×10^{-3}	α(K)=0.000221 *3*; α(L)=2.84×10^{-5} *4*; α(M)=6.14×10^{-6} *9* α(N)=1.418×10^{-6} *20*; α(O)=2.09×10^{-7} *3*; α(P)=1.239×10^{-8} *18*; α(IPF)=0.000936 *14* I(ce(K))=0.00029 *8*.
2560.7 *3*	0.69 *9*	2647.31	(3)$^-$	86.789	2$^+$	E1		1.19×10^{-3}	α(K)=0.000220 *3*; α(L)=2.84×10^{-5} *4*; α(M)=6.13×10^{-6} *9* α(N)=1.417×10^{-6} *20*; α(O)=2.09×10^{-7} *3*; α(P)=1.238×10^{-8} *18*; α(IPF)=0.000937 *14* I(ce(K))<0.0001.
2569.83 *12*	0.228 *16*	2853.68		283.820	4$^+$				
2574.68 *5*	1.37 *6*	2661.522	2$^-$	86.789	2$^+$	E1		1.20×10^{-3}	α(K)=0.000218 *3*; α(L)=2.81×10^{-5} *4*; α(M)=6.08×10^{-6} *9* α(N)=1.405×10^{-6} *20*; α(O)=2.07×10^{-7} *3*; α(P)=1.228×10^{-8} *18*; α(IPF)=0.000945 *14* I(ce(K))=0.00022 *7*. A$_2$=+0.25 *18*. 1998Kr21 report δ(M2/E1)=+0.07 *13*, but for a different placement, namely from 2858, 3$^-$ to 284, 4$^+$.
2578.9 *3*	0.023 *5*	2665.78	2$^+$,3$^+$,4$^+$	86.789	2$^+$				
[x]2581.46 *6*	0.135 *7*								
2587.93 *5*	0.97 *5*	2674.720	1$^-$	86.789	2$^+$	E1(+M2)	+0.09 *32*	0.00121 *7*	α(K)=2.2×10^{-4} *12*; α(L)=2.9×10^{-5} *17*; α(M)=6.2×10^{-6} *36* α(N)=1.44×10^{-6} *83*; α(O)=2.1×10^{-7} *13*; α(P)=1.26×10^{-8} *72*; α(IPF)=0.00095 *8* I(ce(K))=0.00017 *4*. A$_2$=+0.16 *28*.
2595.6 *2*	0.081 *8*	2879.47	2	283.820	4$^+$				
2602.65 *6*	0.076 *7*	2602.67	1$^-$,2$^-$	0.0	0$^+$				
2610.0[e] *3*	0.05[e] *2*	2610.01	2$^+$	0.0	0$^+$				I$_\gamma$: Iγ=0.15 *3* for composite peak.
2610.0[e] *3*	0.10[e] *5*	2696.43	2$^-$,3$^-$	86.789	2$^+$				I$_\gamma$: Iγ=0.15 *3* for composite peak.
2611.0 *3*	0.20 *5*	2697.826	2$^+$	86.789	2$^+$				
2612.5 *3*	0.02 *1*	2896.28	2$^+$	283.820	4$^+$				
2614.25 *5*	4.9 *2*	2701.048	1$^-$	86.789	2$^+$	E1(+M2)	−0.03 *+12−13*	1.22×10^{-3} *2*	α(K)=0.000214 *21*; α(L)=2.8×10^{-5} *3*; α(M)=6.0×10^{-6} *7* α(N)=1.38×10^{-6} *15*; α(O)=2.03×10^{-7} *22*;

$^{160}_{66}$Dy$_{94}$-56

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	δ [&c]	α [b]	Comments
									α(P)=1.20×10^{-8} *13*; α(IPF)=0.000969 *20* I(ce(K))=0.00075 *20*. A_2=+0.04 *11*.
2617.56 *16*	0.55 *5*	2704.230	2$^-$,3$^-$	86.789	2$^+$	E1		1.22×10^{-3}	α(K)=0.000213 *3*; α(L)=2.74×10^{-5} *4*; α(M)=5.93×10^{-6} *9* α(N)=1.369×10^{-6} *20*; α(O)=2.02×10^{-7} *3*; α(P)=1.197×10^{-8} *17*; α(IPF)=0.000972 *14* I(ce(K))=0.00010 *5*.
2620.4 *4*	0.028 *7*	2904.36	2,3,4	283.820	4$^+$				
2630.6[e] *3*	1.5[e] *3*	2630.714	1$^-$	0.0	0$^+$	E1		1.23×10^{-3}	α(K)=0.000211 *3*; α(L)=2.72×10^{-5} *4*; α(M)=5.88×10^{-6} *9* α(N)=1.359×10^{-6} *19*; α(O)=2.00×10^{-7} *3*; α(P)=1.188×10^{-8} *17*; α(IPF)=0.000980 *14* I_γ: Iγ=1.9 *3* for the composite peak. I(ce(K))=0.0011 *3*.
2630.6[e] *3*	0.4[e] *1*	2717.229	2$^+$	86.789	2$^+$				I_γ: Iγ=1.9 *3* for the composite peak.
2632.15 *15*	4.5 *4*	2719.02	2$^-$	86.789	2$^+$	E1		1.23×10^{-3}	α(K)=0.000211 *3*; α(L)=2.72×10^{-5} *4*; α(M)=5.88×10^{-6} *9* α(N)=1.358×10^{-6} *19*; α(O)=2.00×10^{-7} *3*; α(P)=1.187×10^{-8} *17*; α(IPF)=0.000981 *14*
2643.06 *10*	0.67 *4*	2729.84	2$^-$	86.789	2$^+$	E1		1.23×10^{-3}	α(K)=0.000210 *3*; α(L)=2.70×10^{-5} *4*; α(M)=5.84×10^{-6} *9* α(N)=1.349×10^{-6} *19*; α(O)=1.99×10^{-7} *3*; α(P)=1.180×10^{-8} *17*; α(IPF)=0.000987 *14*
2647.91[e] *5*	2.7[e] *2*	2734.720	1$^-$	86.789	2$^+$	E1(+M2)	−0.15 *+20−19*	0.00124 *4*	α(K)=2.27×10^{-4} *67*; α(L)=2.94×10^{-5} *93*; α(M)=6.4×10^{-6} *21* α(N)=1.47×10^{-6} *47*; α(O)=2.17×10^{-7} *70*; α(P)=1.29×10^{-8} *41*; α(IPF)=0.00098 *5* I_γ: Iγ=3.02 *15* for the composite peak. I(ce(K))=0.00048 *15*. A_2=+0.22 *18*.
2647.91[e] *5*	0.30[e] *3*	2931.75		283.820	4$^+$				I_γ: Iγ=3.02 *15* for the composite peak.
2658.11 *8*	0.106 *5*	2941.95	4,5,6	283.820	4$^+$				
2669.5 *3*	0.172 *14*	2756.3		86.789	2$^+$				
2674.71[e] *5*	7.3[e] *4*	2674.720	1$^-$	0.0	0$^+$	E1		1.25×10^{-3}	α(K)=0.000206 *3*; α(L)=2.65×10^{-5} *4*; α(M)=5.73×10^{-6} *8* α(N)=1.324×10^{-6} *19*; α(O)=1.95×10^{-7} *3*; α(P)=1.158×10^{-8} *17*; α(IPF)=0.001007 *14* I_γ: Iγ=7.6 *4* for the composite peak. I(ce(K))=0.0015 *2*. A_2=+0.74 *23*.
2674.71[e] *5*	0.30[e] *3*	2958.55		283.820	4$^+$				I_γ: Iγ=7.6 *4* for the composite peak.
[x]2677.4 *3*	0.077 *15*								
2680.88 *5*	0.47 *2*	2767.70	1$^-$	86.789	2$^+$	E1		1.25×10^{-3}	α(K)=0.000205 *3*; α(L)=2.64×10^{-5} *4*;

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	α [b]	Comments
								α(M)=5.71×10^{-6} 8 α(N)=1.320×10^{-6} 19; α(O)=1.94×10^{-7} 3; α(P)=1.154×10^{-8} 17; α(IPF)=0.001010 15 I(ce(K))=0.00010 5.
2686.14 8	0.116 6	2969.90		283.820	4$^+$			
2693.70 6	0.055 8	2977.54		283.820	4$^+$			
2697.78 5	0.288 16	2697.826	2$^+$	0.0	0$^+$			
2701.04 5	0.172 8	2701.048	1$^-$	0.0	0$^+$			
2711.0 2	0.032 2	2994.69	2,3,4	283.820	4$^+$			
2717.20 5	0.256 11	2717.229	2$^+$	0.0	0$^+$			
^{x}2721.9 2	0.012 2							
2734.72 5	0.92 3	2734.720	1$^-$	0.0	0$^+$	E1	1.27×10^{-3}	α(K)=0.000199 3; α(L)=2.56×10^{-5} 4; α(M)=5.54×10^{-6} 8 α(N)=1.280×10^{-6} 18; α(O)=1.88×10^{-7} 3; α(P)=1.120×10^{-8} 16; α(IPF)=0.001043 15 I(ce(K))=0.00009 3. A_2=+0.74 29.
2747.0 2	0.073 6	2833.85	2,3,4	86.789	2$^+$			
2749.9 3	0.014 4	3033.7		283.820	4$^+$			
2764.81 5	0.86 7	2851.73	1$^-$	86.789	2$^+$	E1	1.29×10^{-3}	α(K)=0.000196 3; α(L)=2.52×10^{-5} 4; α(M)=5.45×10^{-6} 8 α(N)=1.259×10^{-6} 18; α(O)=1.85×10^{-7} 3; α(P)=1.102×10^{-8} 16; α(IPF)=0.001060 15 I(ce(K))=0.00010 4.
2767.8 2	0.061 12	2767.70	1$^-$	0.0	0$^+$			
2771.6 5	0.009 3	2858.17		86.789	2$^+$			
2774.3 2	0.039 10	2861.17	1$^+$	86.789	2$^+$			
2790.4 2	0.025 3	2877.114	1$^-$	86.789	2$^+$			
2793.1 5	0.0083 18	2879.47	2	86.789	2$^+$			
2797.6 4	0.011 3	3081.4	(4,5,6)	283.820	4$^+$			
2809.2 2	0.034 6	2896.28	2$^+$	86.789	2$^+$			
2817.56 8	0.081 8	2904.36	2,3,4	86.789	2$^+$			
2822.2 2	0.022 4	2822.23	1$^+$	0.0	0$^+$			
^{x}2831.7 3	0.0083 8							
^{x}2837.2 4	0.0044 20							
^{x}2843.8 2	0.017 3							
2851.55 8	0.257 16	2851.73	1$^-$	0.0	0$^+$	(E1)	1.32×10^{-3}	α(K)=0.000187 3; α(L)=2.41×10^{-5} 4; α(M)=5.20×10^{-6} 8 α(N)=1.201×10^{-6} 17; α(O)=1.768×10^{-7} 25; α(P)=1.052×10^{-8} 15; α(IPF)=0.001105 16
^{x}2854.7 2	0.043 5							
2861.03 9	0.084 6	2861.17	1$^+$	0.0	0$^+$	(M1)	1.28×10^{-3}	α(K)=0.000400 6; α(L)=5.36×10^{-5} 8; α(M)=1.165×10^{-5} 17 α(N)=2.70×10^{-6} 4; α(O)=3.98×10^{-7} 6; α(P)=2.37×10^{-8} 4; α(IPF)=0.000812 12 Mult.: 2002Ad34 report mult=(E1),E2,M1. Placement requires M1.
^{x}2866.5 2	0.038 3							
2876.98 10	0.017 2	2877.114	1$^-$	0.0	0$^+$	E1	1.33×10^{-3}	α(K)=0.000185 3; α(L)=2.37×10^{-5} 4; α(M)=5.13×10^{-6} 8

$^{160}_{66}Dy_{94}$-58

γ(^{160}Dy) (continued)

E_γ [†‡]	I_γ [†#]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [@]	α [b]	Comments
								α(N)=1.185×10^{-6} *17*; α(O)=1.744×10^{-7} *25*; α(P)=1.038×10^{-8} *15*; α(IPF)=0.001118 *16*
2882.5 *3*	0.0035 *8*	2969.04	1,2	86.789	2$^+$			
^{x}2889.0 *2*	0.015 *2*							
2896.7 *2*	0.069 *4*	2896.28	2$^+$	0.0	0$^+$	E2	0.00120 *9*	α(K)=0.000370 *20*; α(L)=4.9×10^{-5} *3*; α(M)=1.07×10^{-5} *7* α(N)=2.47×10^{-6} *16*; α(O)=3.65×10^{-7} *23*; α(P)=2.16×10^{-8} *15*; α(IPF)=0.00077 *7* Mult.: placement requires E2.
2907.7 *3*	0.0055 *10*	2994.69	2,3,4	86.789	2$^+$			
^{x}2915.2 *2*	0.016 *2*							
2917.5 *1*	0.003 *1*	3004.34	1,2	86.789	2$^+$			
^{x}2929.3 *2*	0.0077 *17*							
^{x}2933.8 *2*	0.0055 *10*							
2937.9 *3*	0.0084 *9*	3024.52	1,2	86.789	2$^+$			
^{x}2945.6 *2*	0.018 *2*							
2968.5 *7*	0.0032 *15*	2969.04	1,2	0.0	0$^+$			
2975.2 *2*	0.0192 *15*	3061.83	1$^+$	86.789	2$^+$	(M1)	1.30×10^{-3}	α(K)=0.000368 *6*; α(L)=4.92×10^{-5} *7*; α(M)=1.069×10^{-5} *15* α(N)=2.47×10^{-6} *4*; α(O)=3.65×10^{-7} *6*; α(P)=2.17×10^{-8} *3*; α(IPF)=0.000871 *13*
3004.6 *4*	0.0035 *10*	3004.34	1,2	0.0	0$^+$			
3024.4 *2*	0.0153 *13*	3024.52	1,2	0.0	0$^+$			
3061.3 *7*	0.0022 *9*	3061.83	1$^+$	0.0	0$^+$	(M1)	1.32×10^{-3}	α(K)=0.000345 *5*; α(L)=4.62×10^{-5} *7*; α(M)=1.004×10^{-5} *14* α(N)=2.32×10^{-6} *4*; α(O)=3.43×10^{-7} *5*; α(P)=2.04×10^{-8} *3*; α(IPF)=0.000914 *13*

[†] Values are from 2002Ad34, unless noted otherwise. 868 γ transitions were reported (although some are multiply placed), of which 528 are new. 33 previously reported γ rays were not confirmed. Photon intensities and I(ce(K)) listed by these authors are on the same scale.

[‡] Ten Eγ values differ from their respective level-energy differences by more than three times the quoted uncertainties. Five of these γ′s are unresolved doublets. The level-energy differences for these γ′s are given as comments.

[#] The unplaced γ intensity amounts to ≈0.9%.

[@] Proposed by 2002Ad34, unless noted otherwise (and transferred to the Adopted Levels, Gammas dataset). Values are based on their ce data. Assumed mults (for Eγ<600 keV) are shown in square brackets.

[&] From 1998Kr21, unless noted otherwise. Where a δ value is consistent with E2+M3 but overlaps zero, the γ is shown as pure E2.

[a] From the ce data of 2002Ad34.

[b] Additional information 2.

[c] Additional information 3.

[d] Multiply placed with undivided intensity.

[e] Multiply placed with intensity suitably divided.

$^{160}_{66}$Dy$_{94}$-59

$\gamma(^{160}Dy)$ (continued)

[f] Placement of transition in the level scheme is uncertain.
[x] γ ray not placed in level scheme.

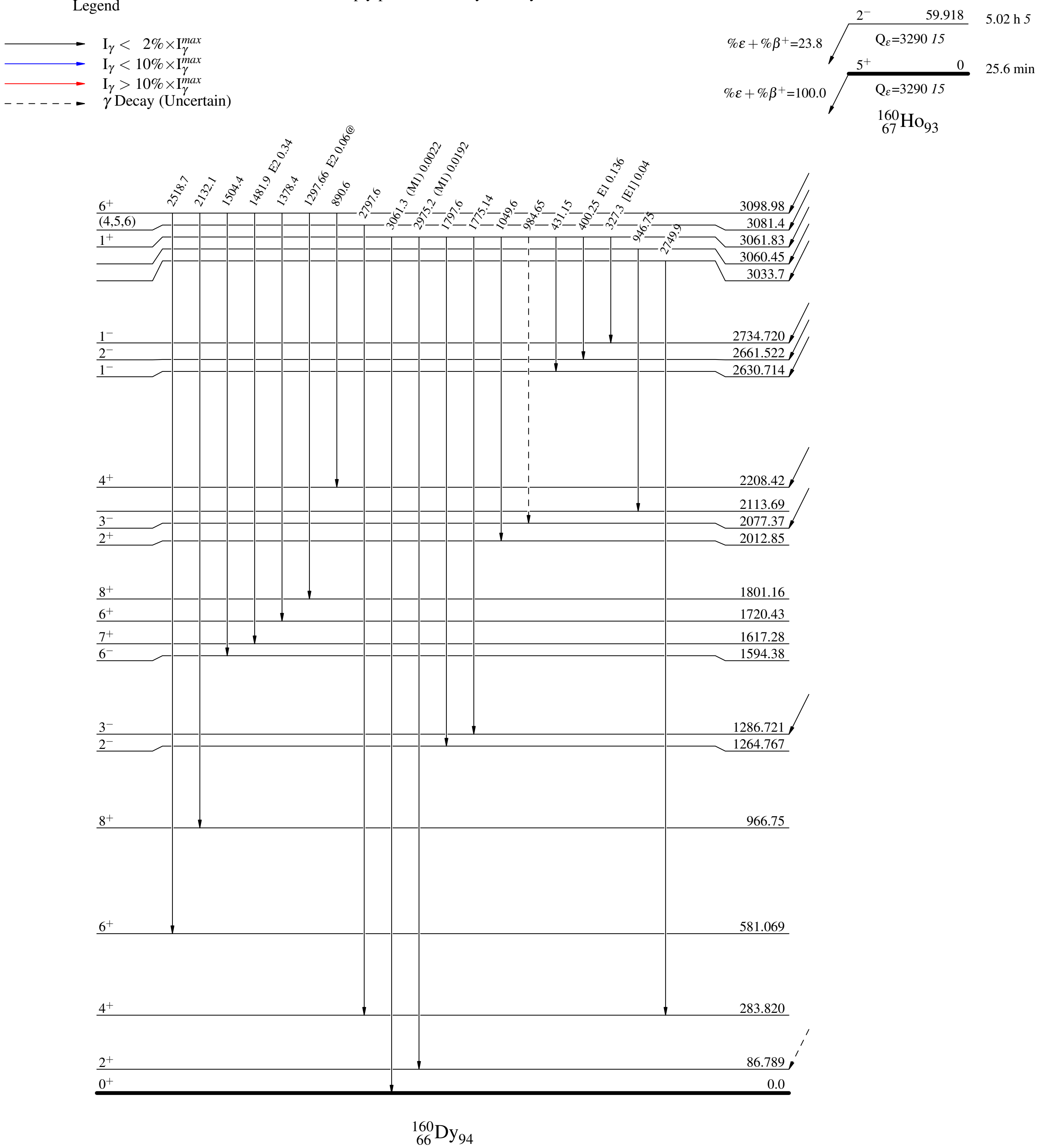
$^{160}_{66}Dy_{94}$-60

^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme

Intensities: Relative $I_{(\gamma+ce)}$

@ Multiply placed: intensity suitably divided

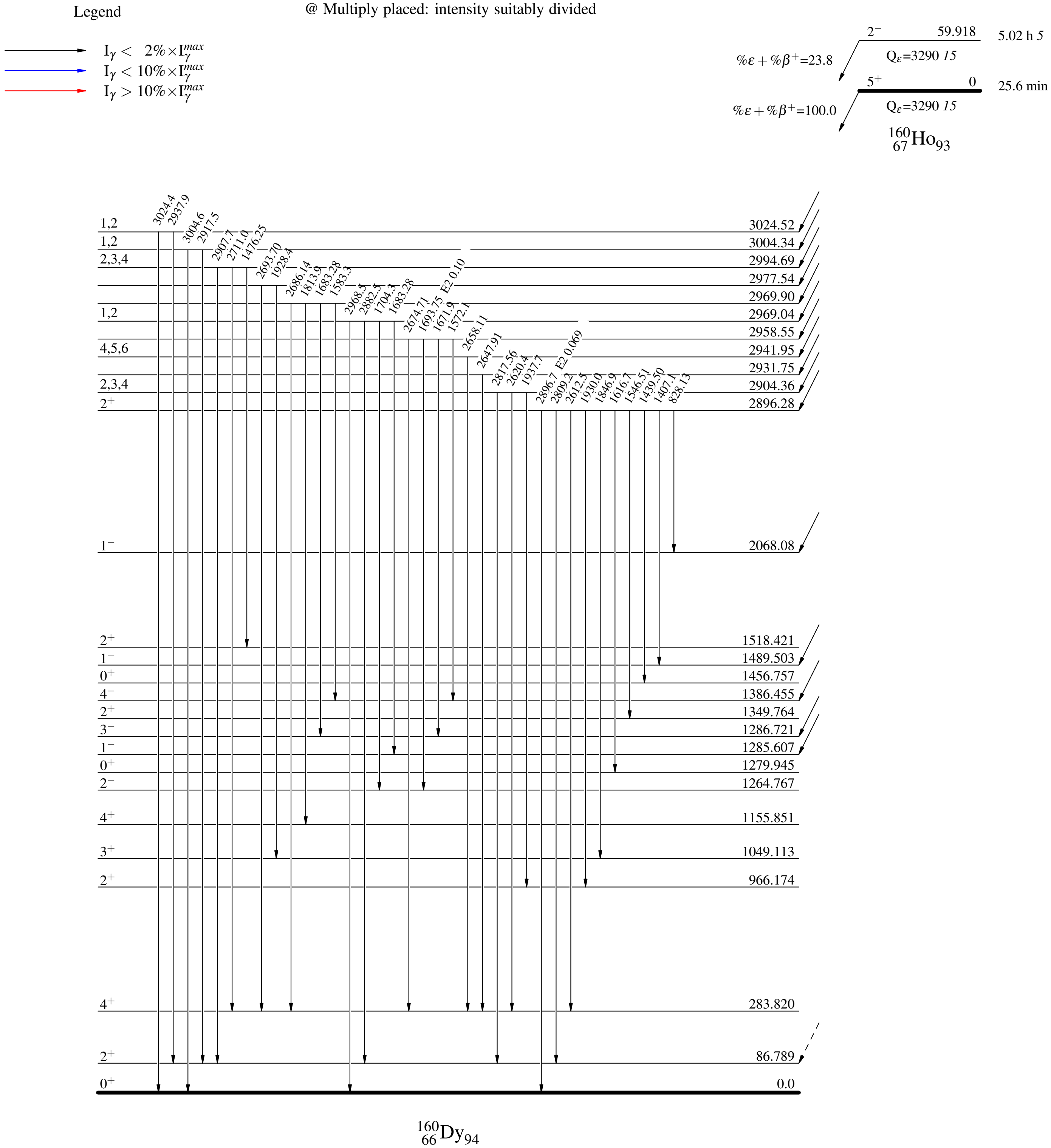


^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

Intensities: Relative $I_{(\gamma+ce)}$

@ Multiply placed: intensity suitably divided

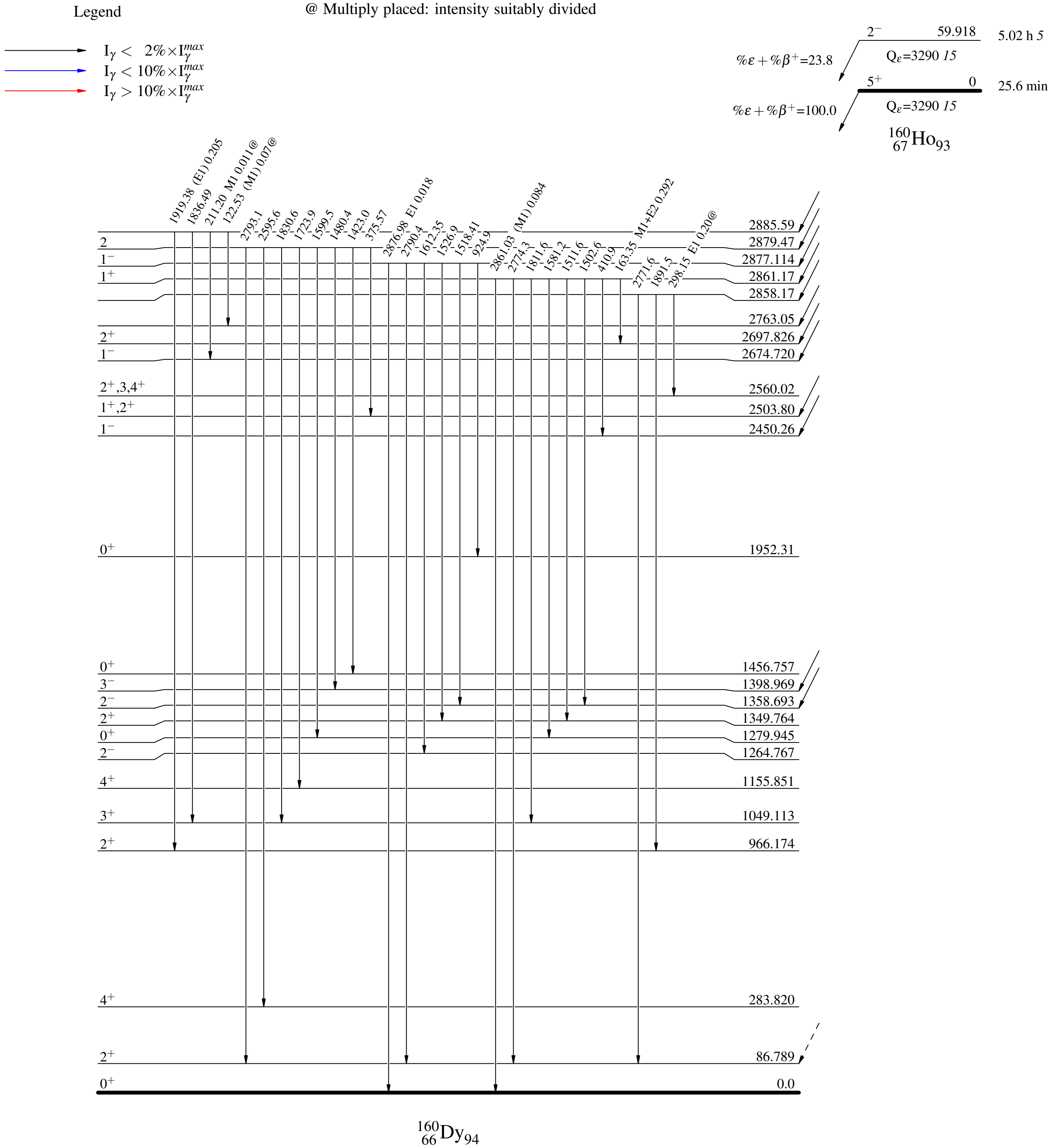


^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

Intensities: Relative $I_{(\gamma+ce)}$

@ Multiply placed: intensity suitably divided

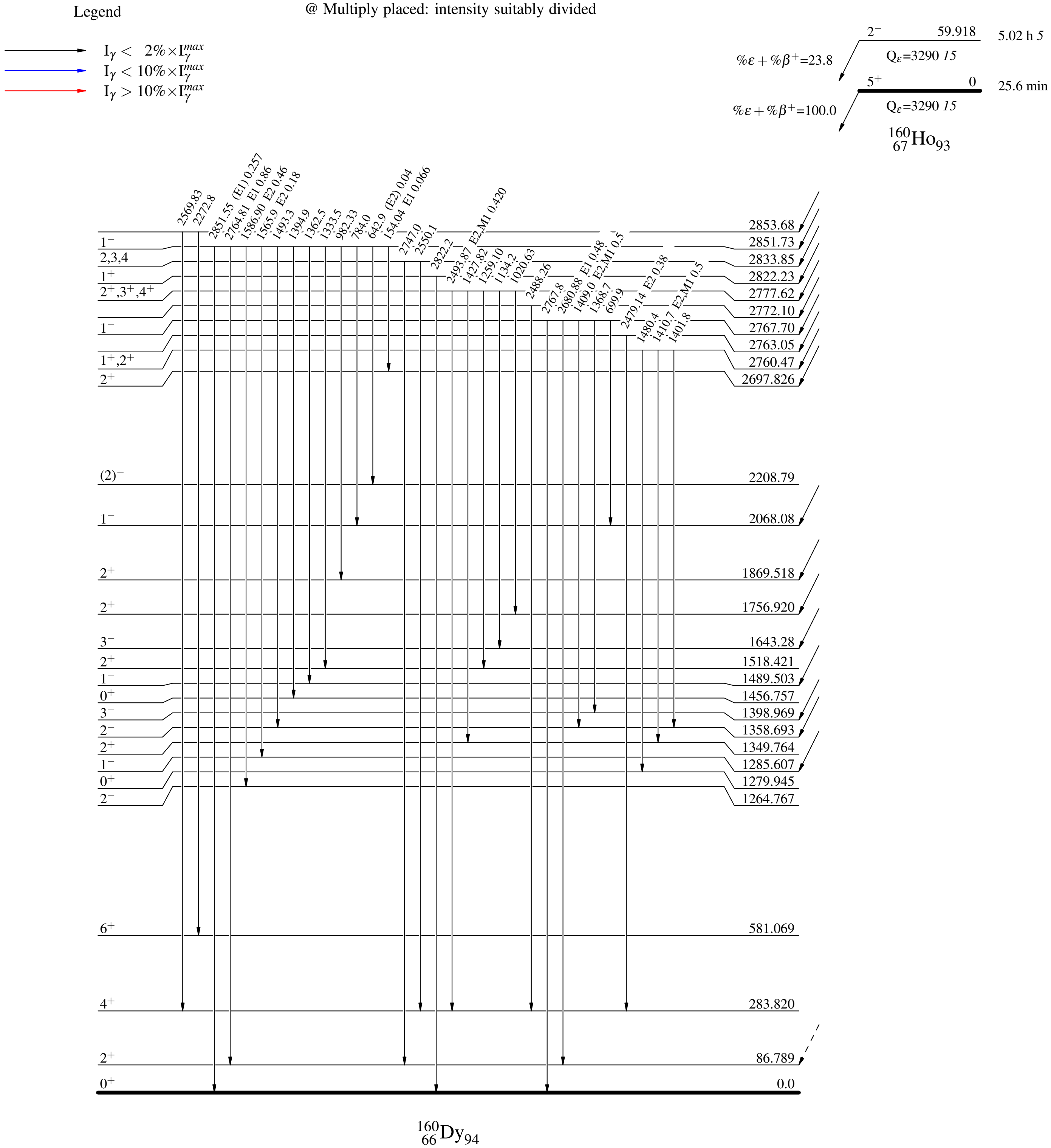


^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

Intensities: Relative $I_{(\gamma+ce)}$

@ Multiply placed: intensity suitably divided

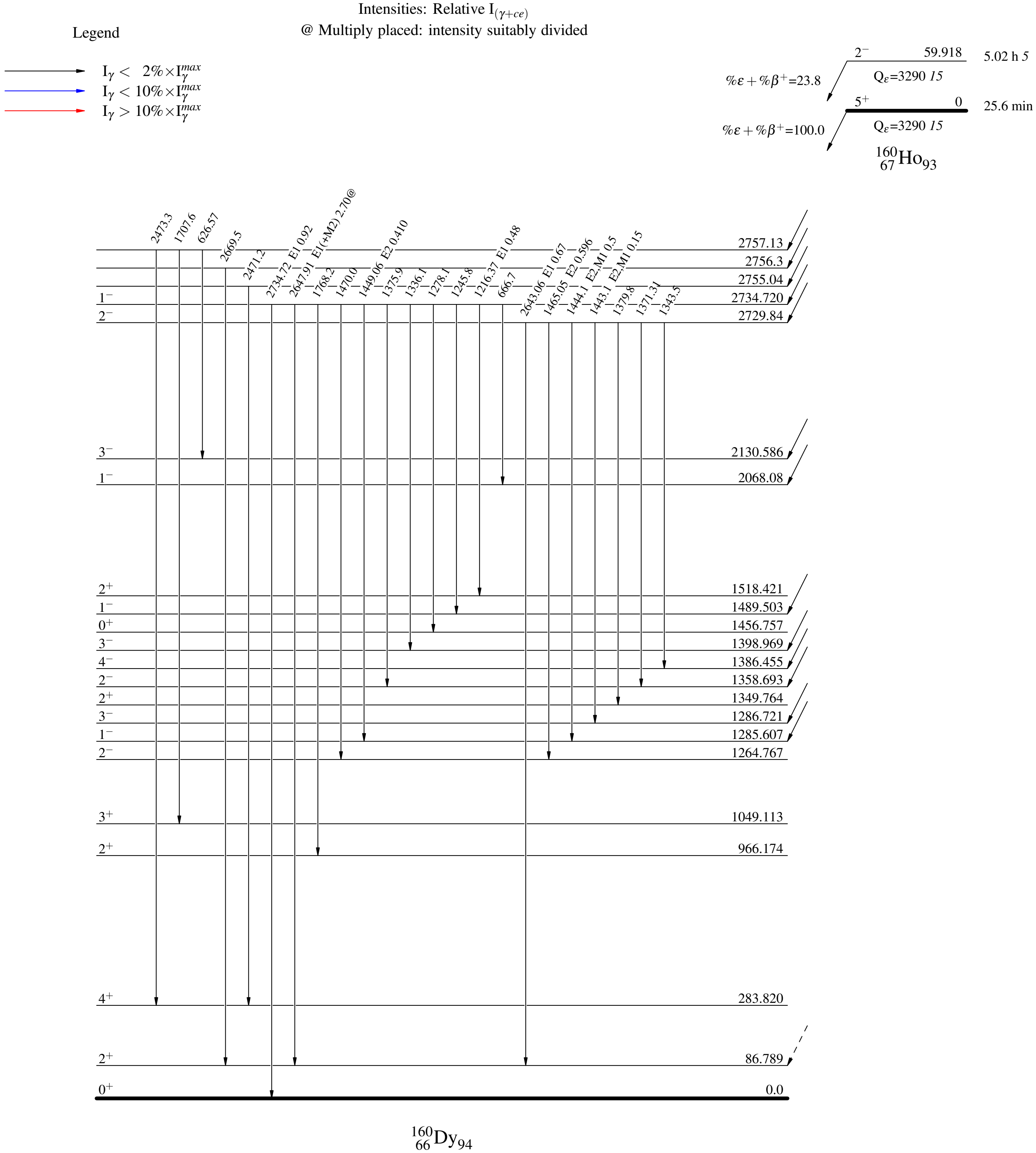


^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

Intensities: Relative $I_{(\gamma+ce)}$

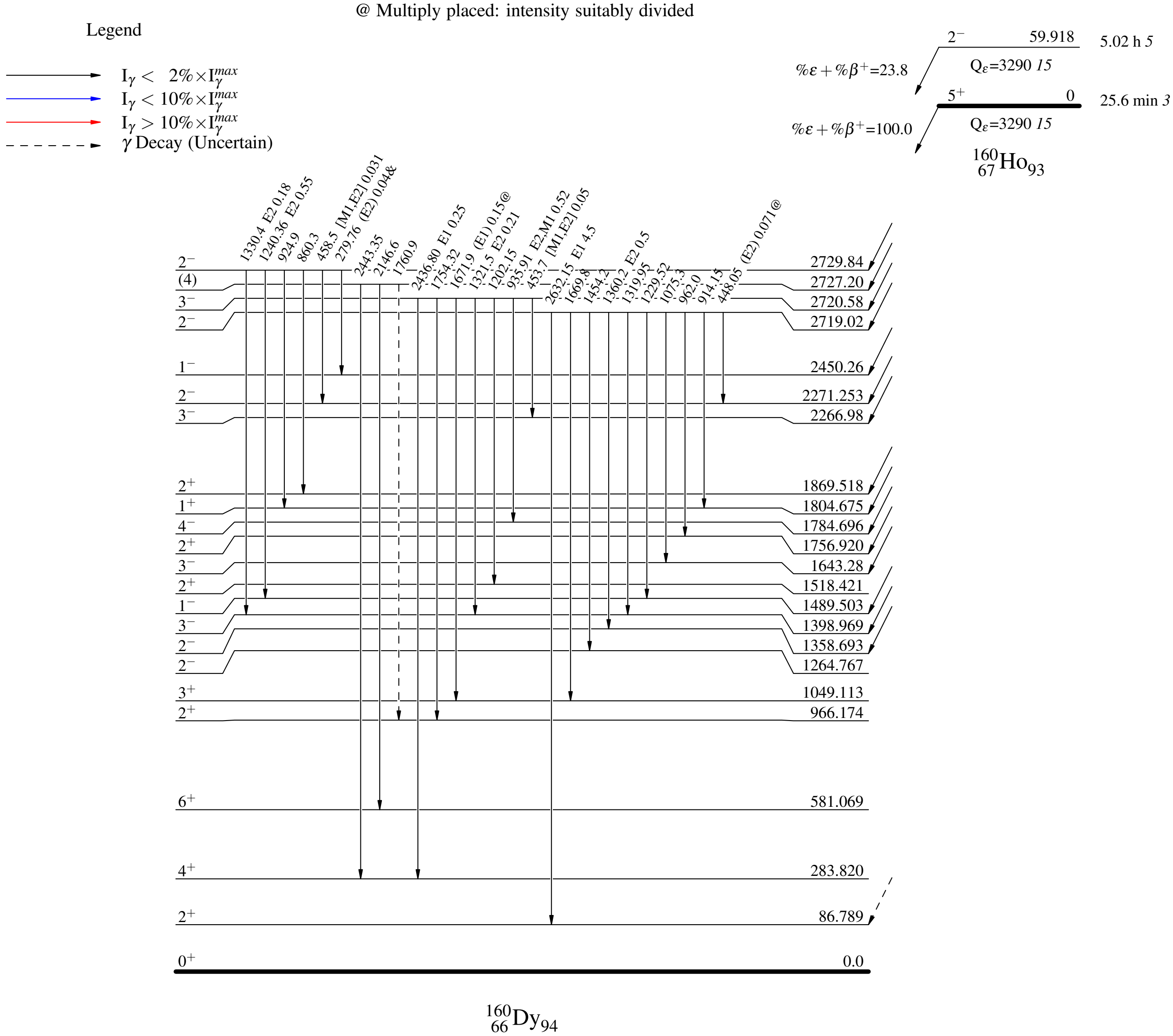
@ Multiply placed: intensity suitably divided



^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

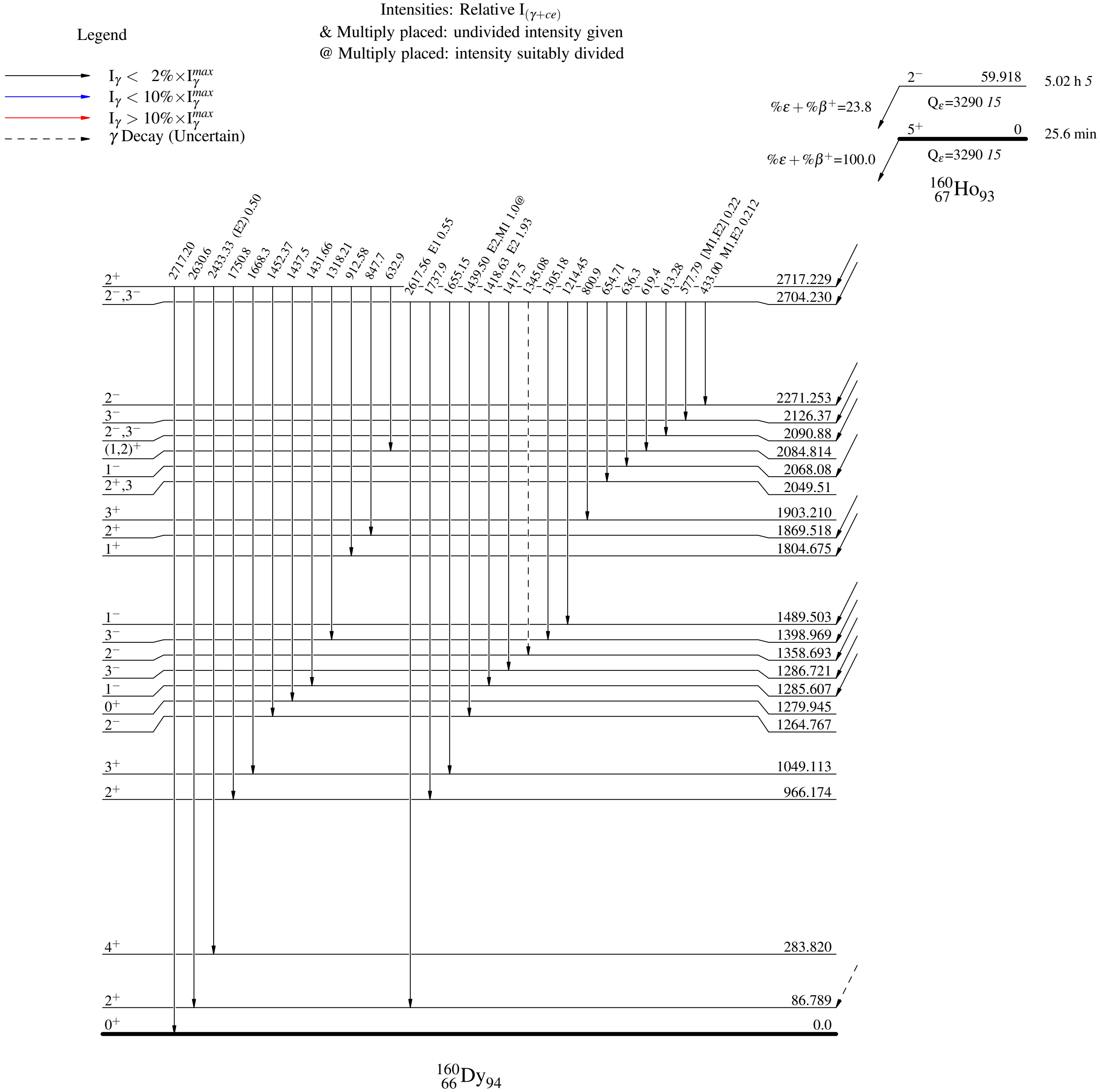
Intensities: Relative $I_{(\gamma+ce)}$
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

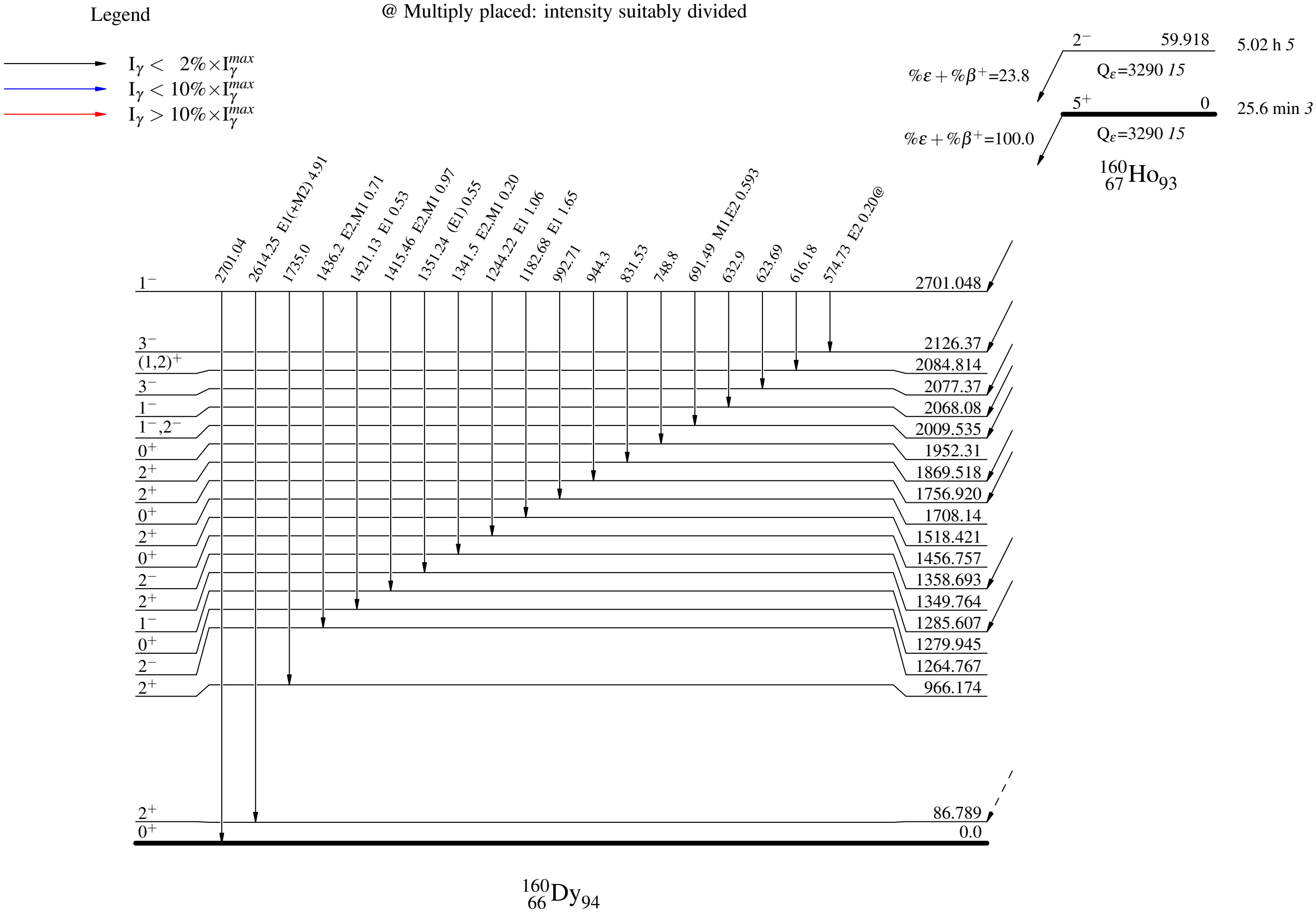
Intensities: Relative $I_{(\gamma+ce)}$
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

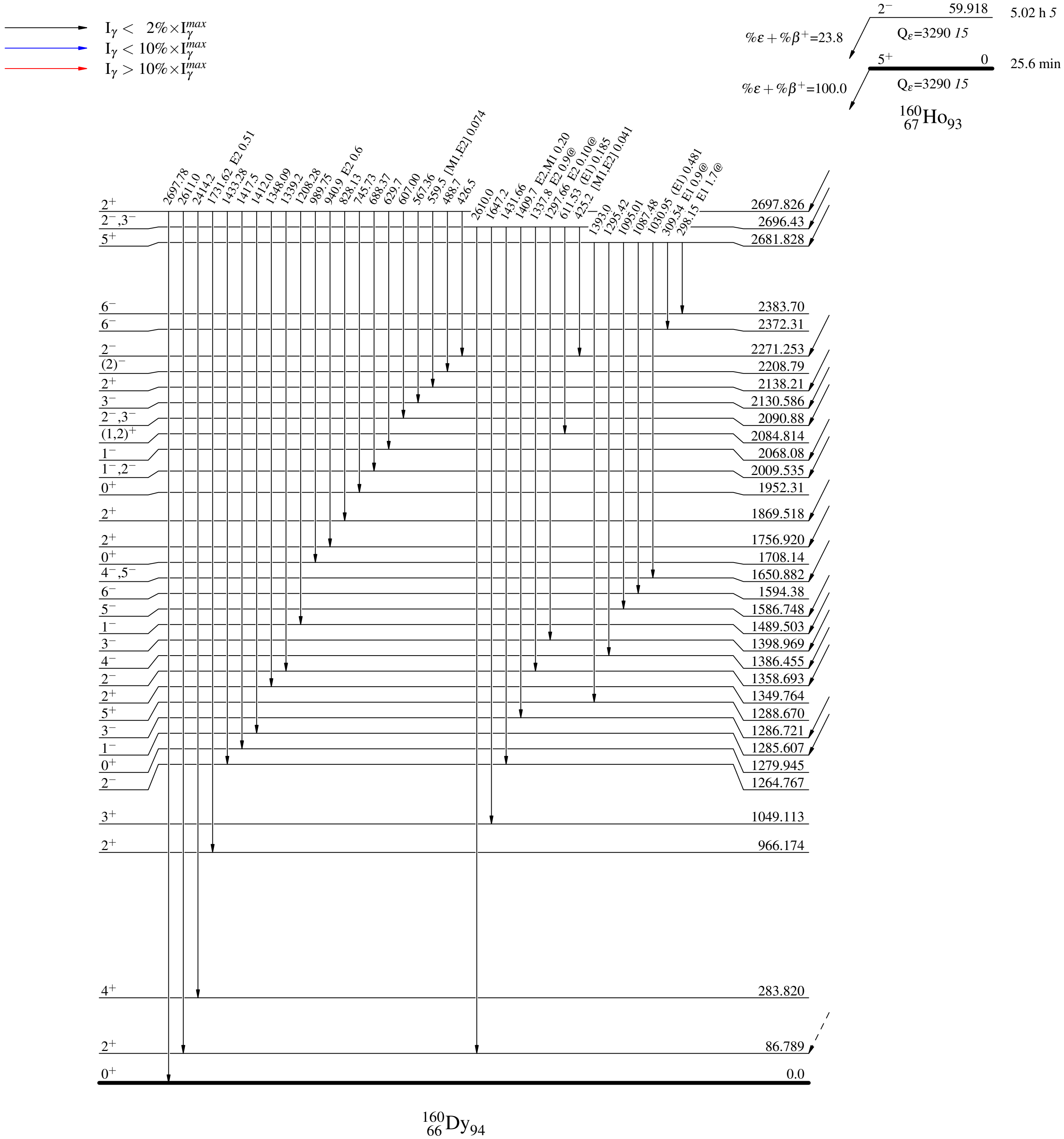
Intensities: Relative $I_{(\gamma+ce)}$
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

Intensities: Relative $I_{(\gamma+ce)}$
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



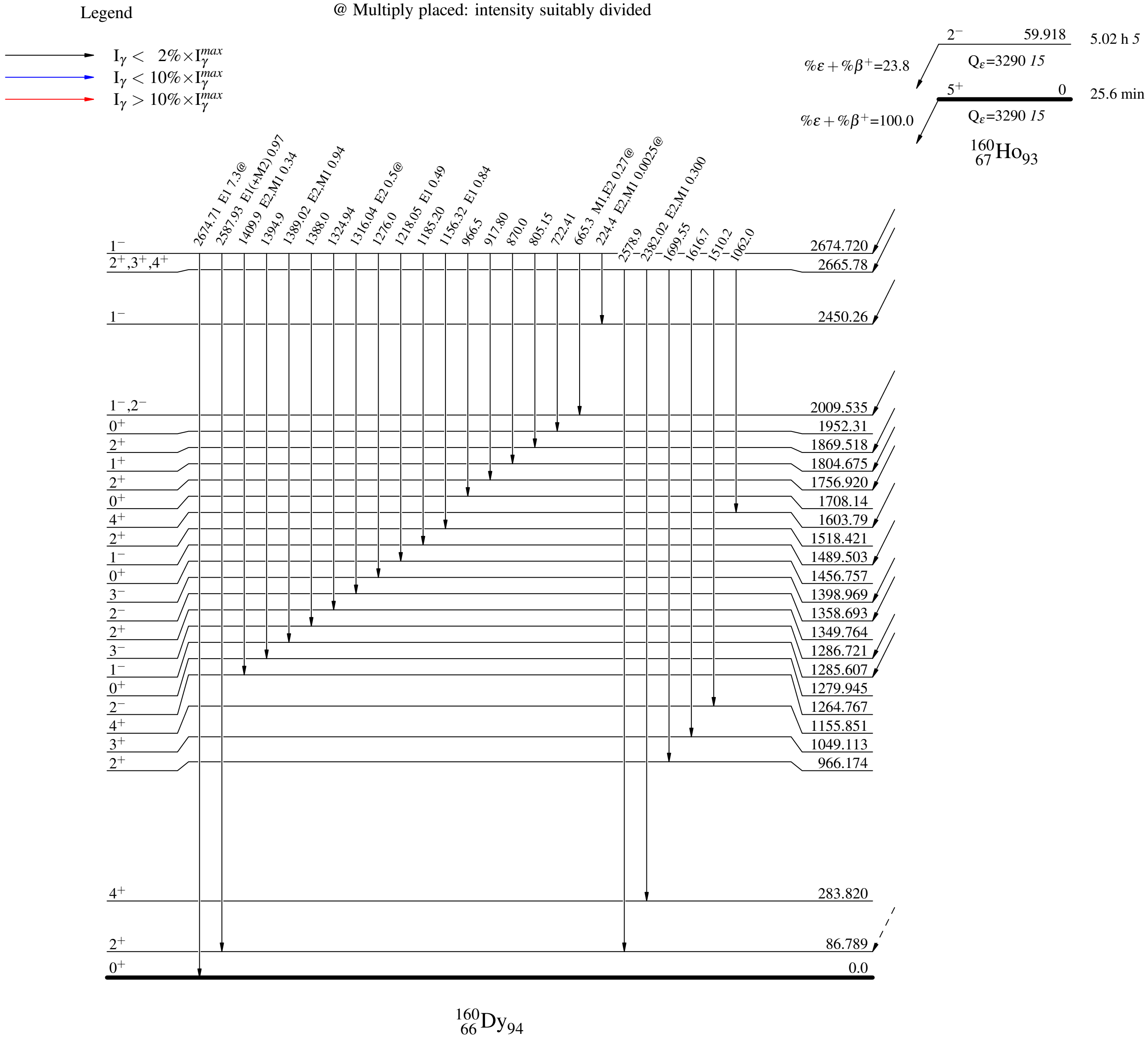
^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

Intensities: Relative $I_{(\gamma+ce)}$

& Multiply placed: undivided intensity given

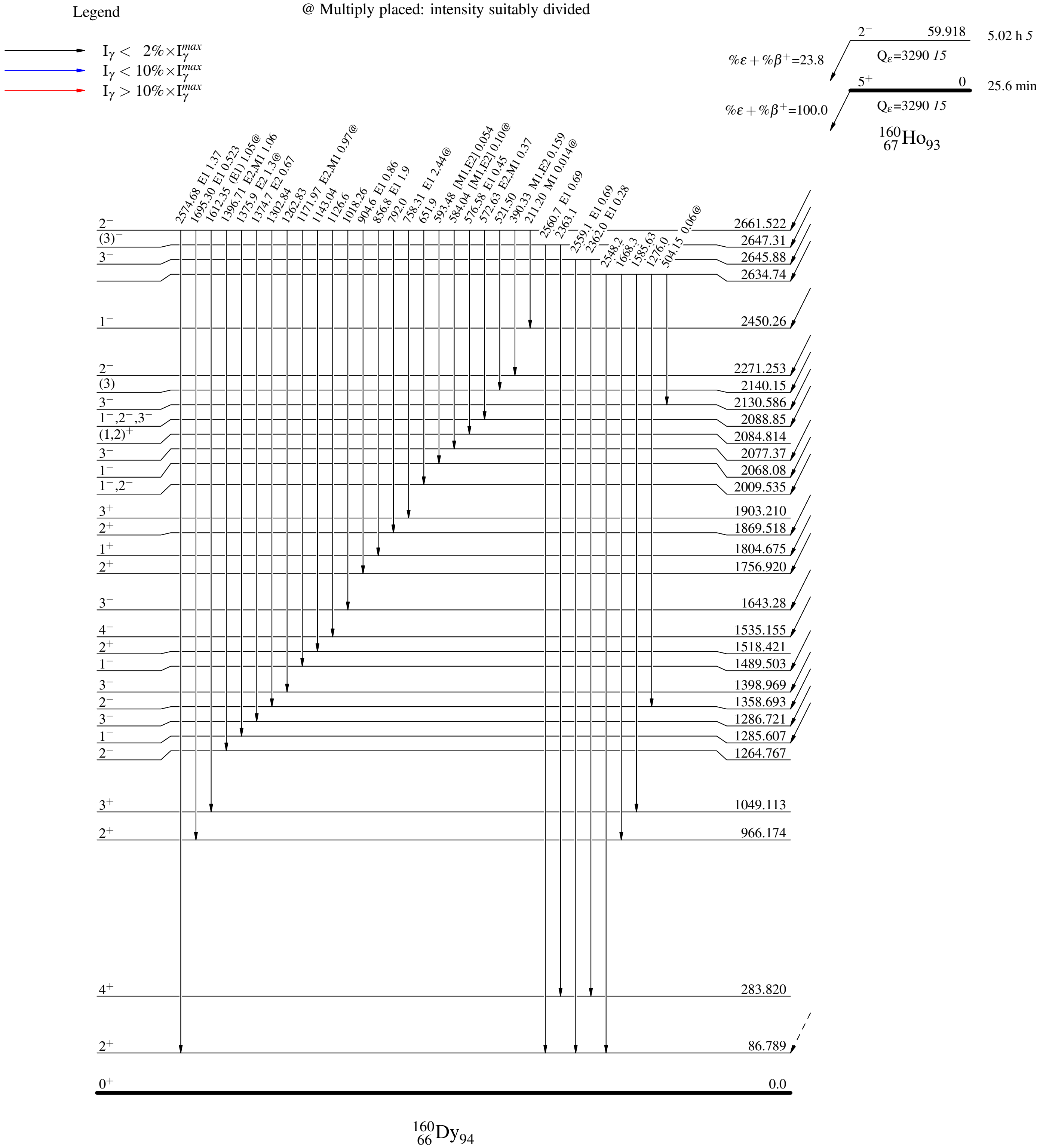
@ Multiply placed: intensity suitably divided



^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

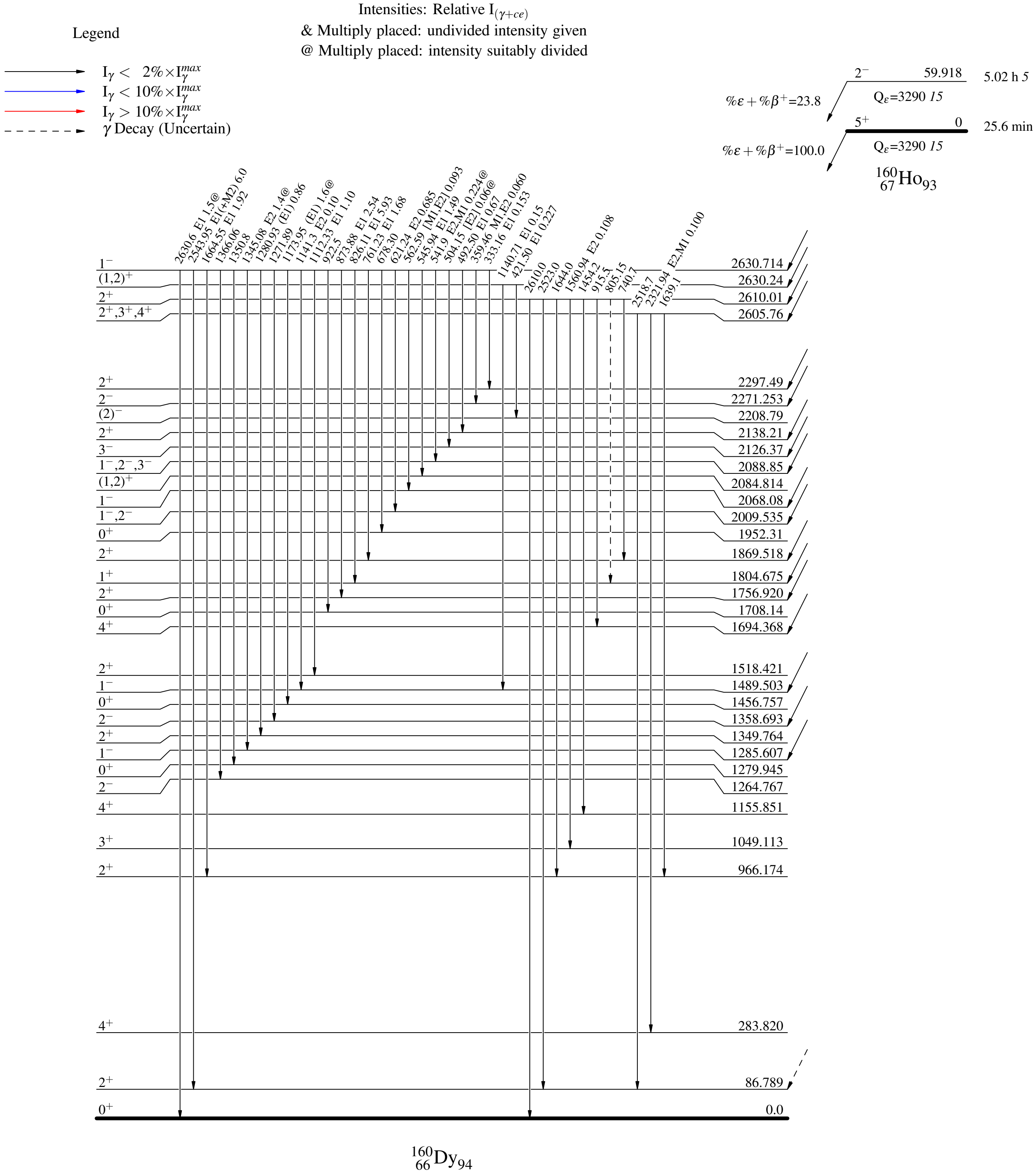
Decay Scheme (continued)

Intensities: Relative $I_{(\gamma+ce)}$
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

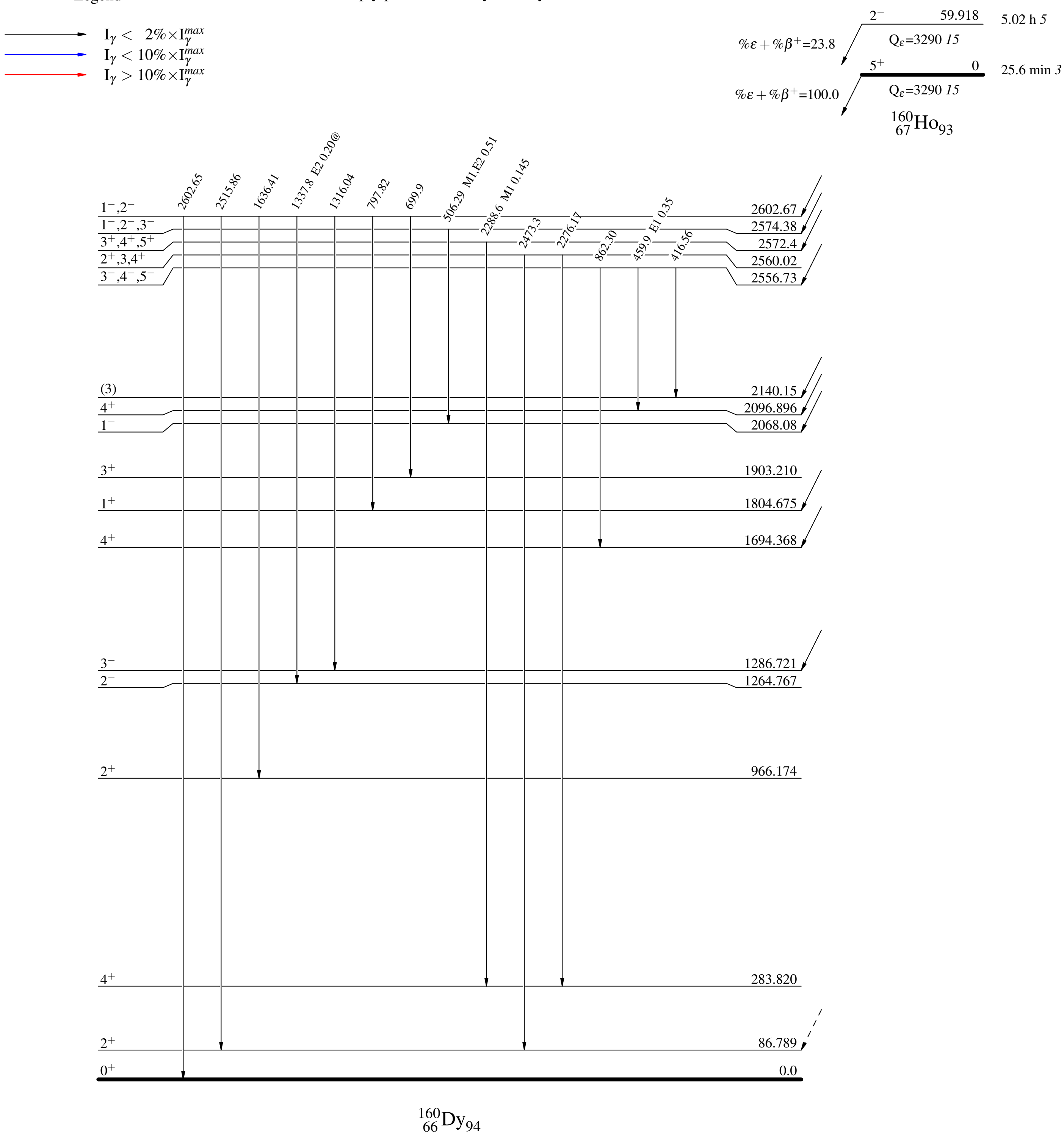
Decay Scheme (continued)



^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

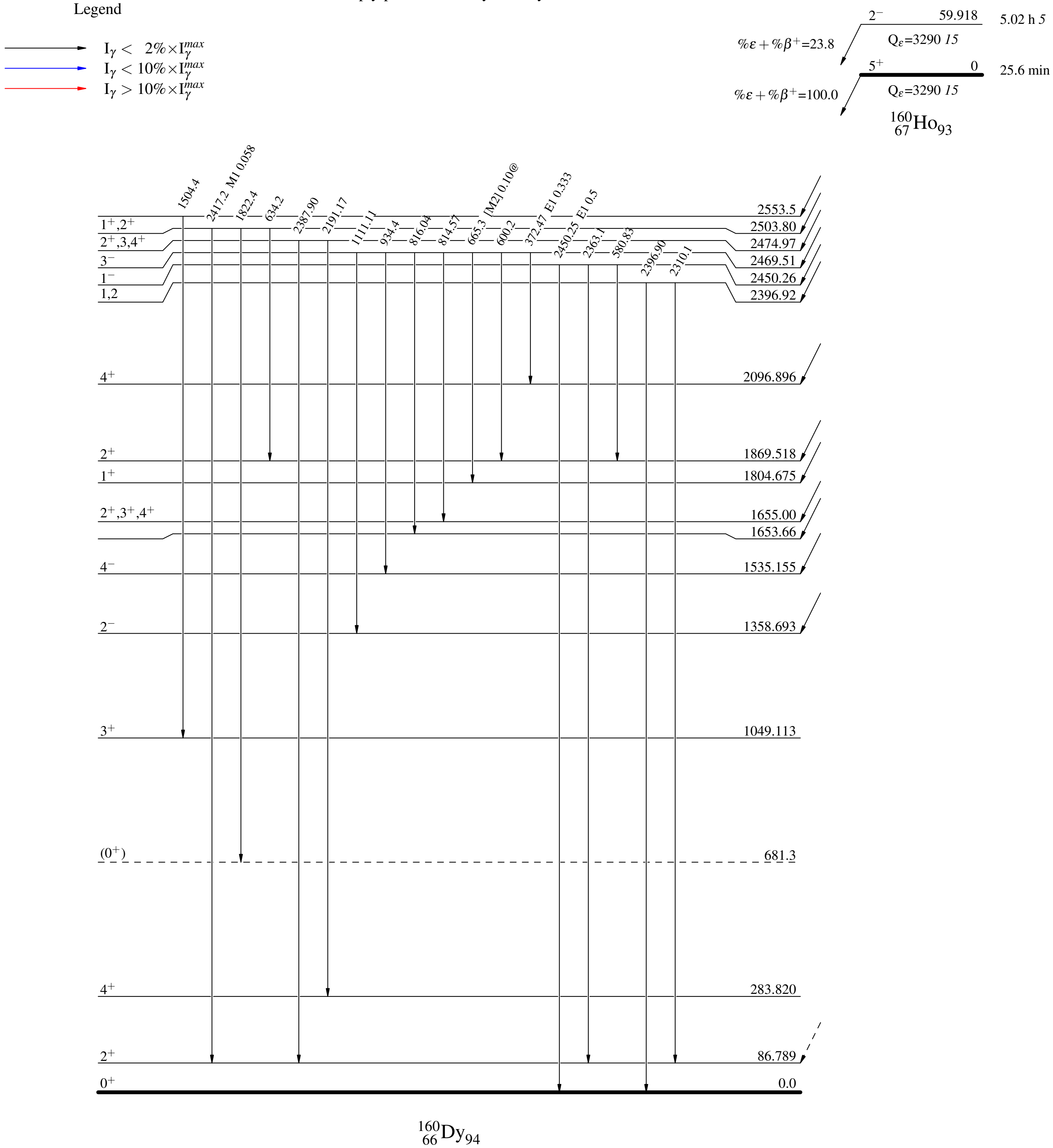
Intensities: Relative $I_{(\gamma+ce)}$
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

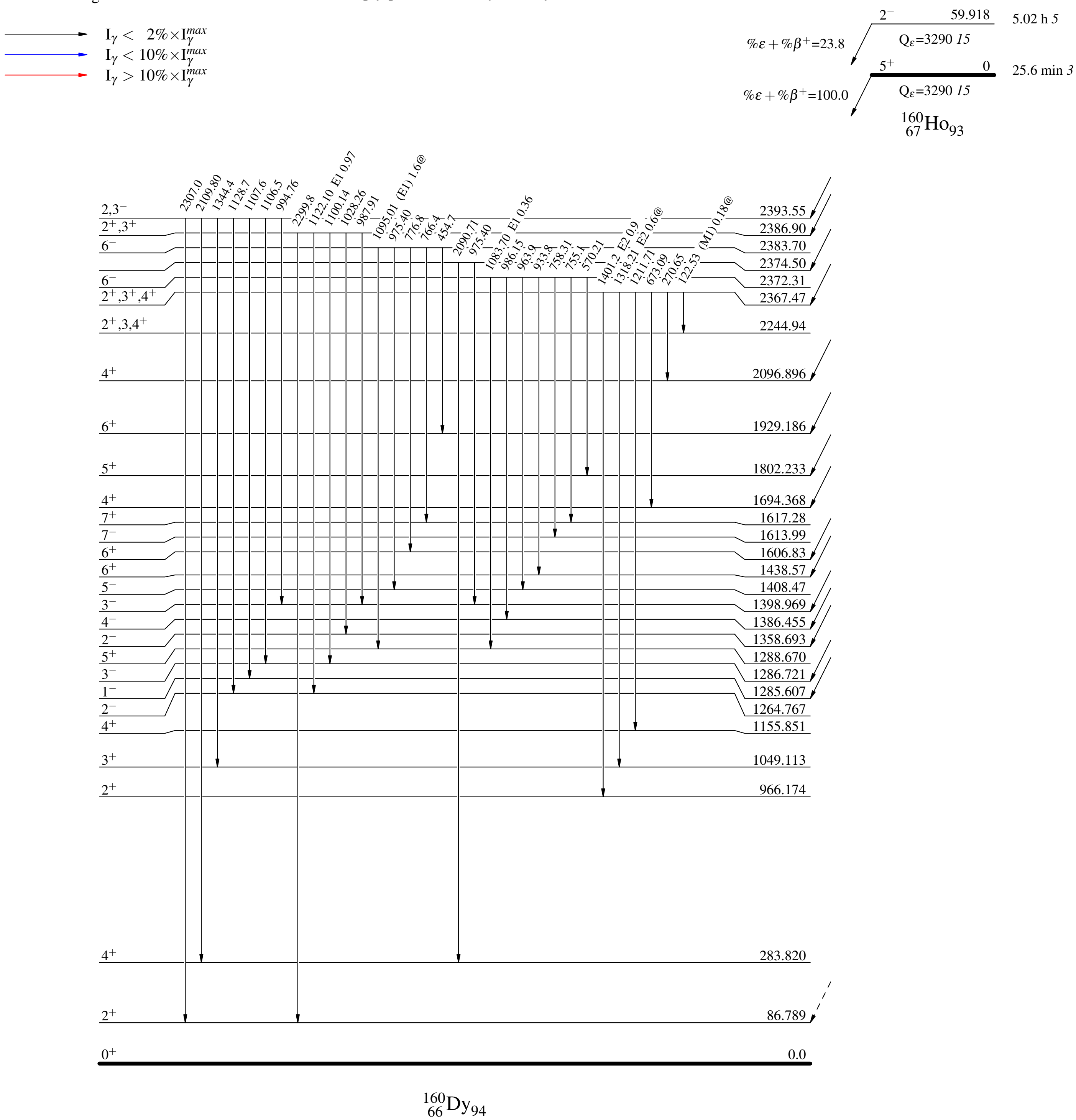
Intensities: Relative $I_{(\gamma+ce)}$
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

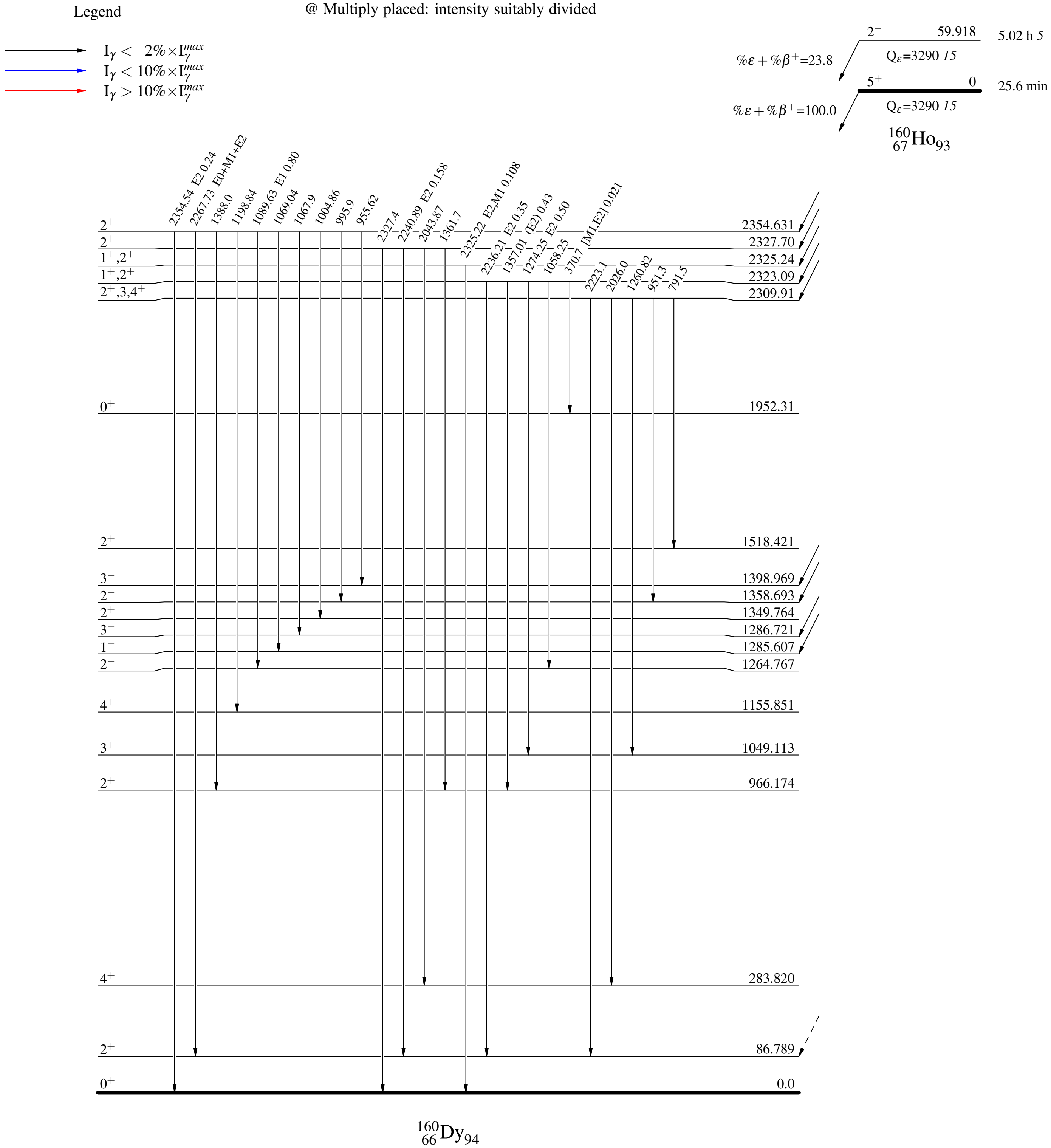
Intensities: Relative $I_{(\gamma+ce)}$
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

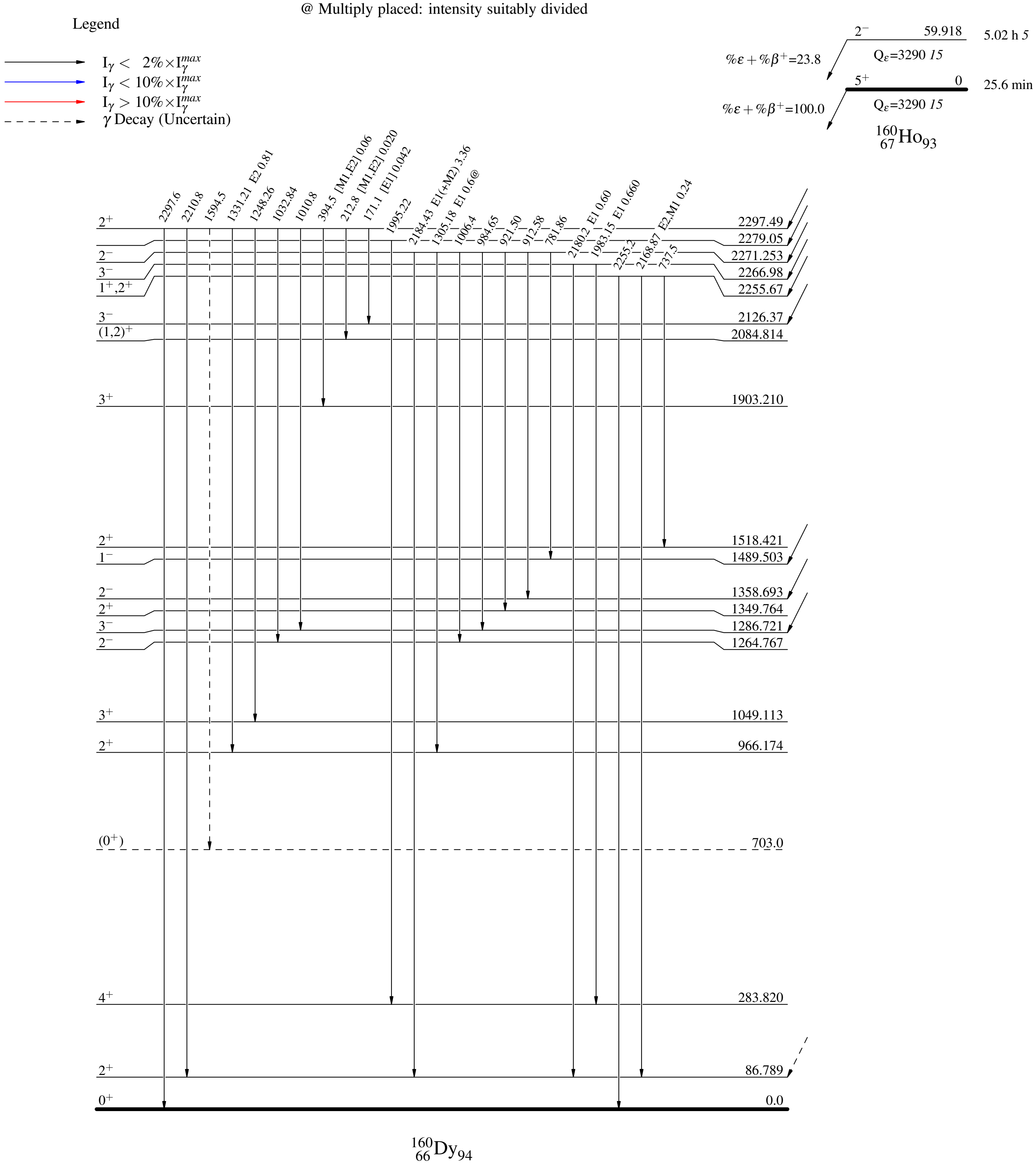
Intensities: Relative $I_{(\gamma+ce)}$
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

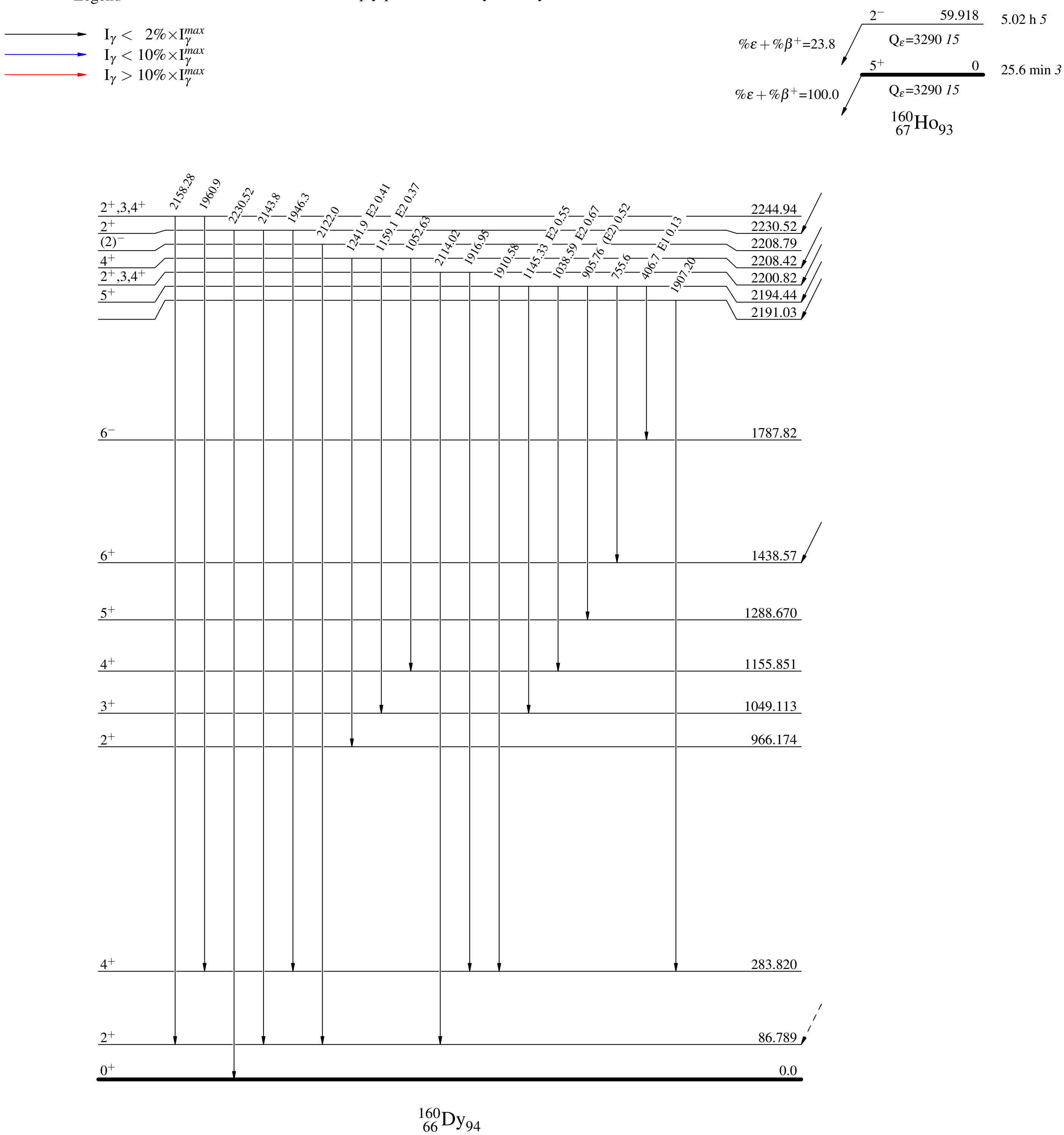
Intensities: Relative $I_{(\gamma+ce)}$
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

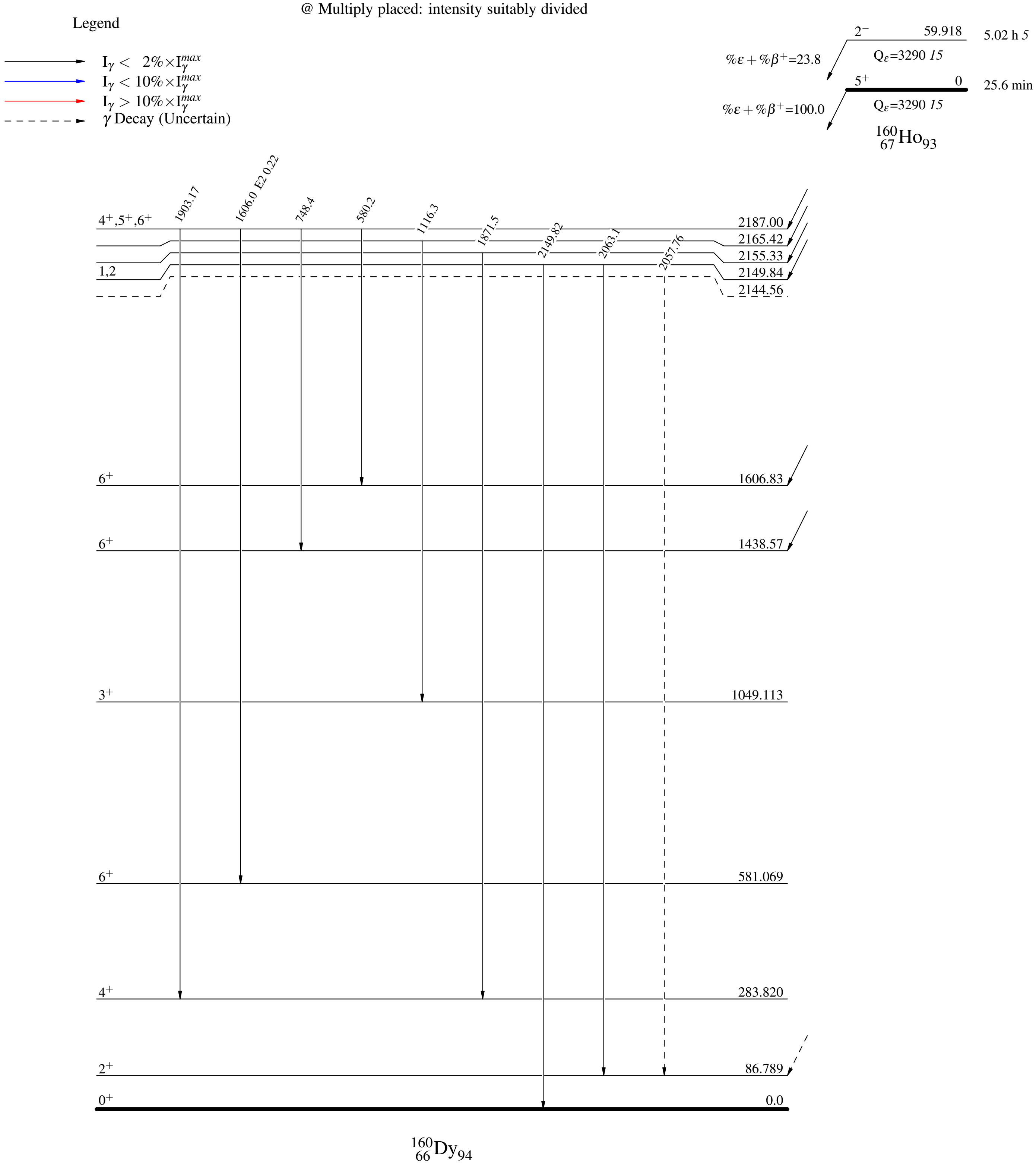
Intensities: Relative $I_{(\gamma+ce)}$
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

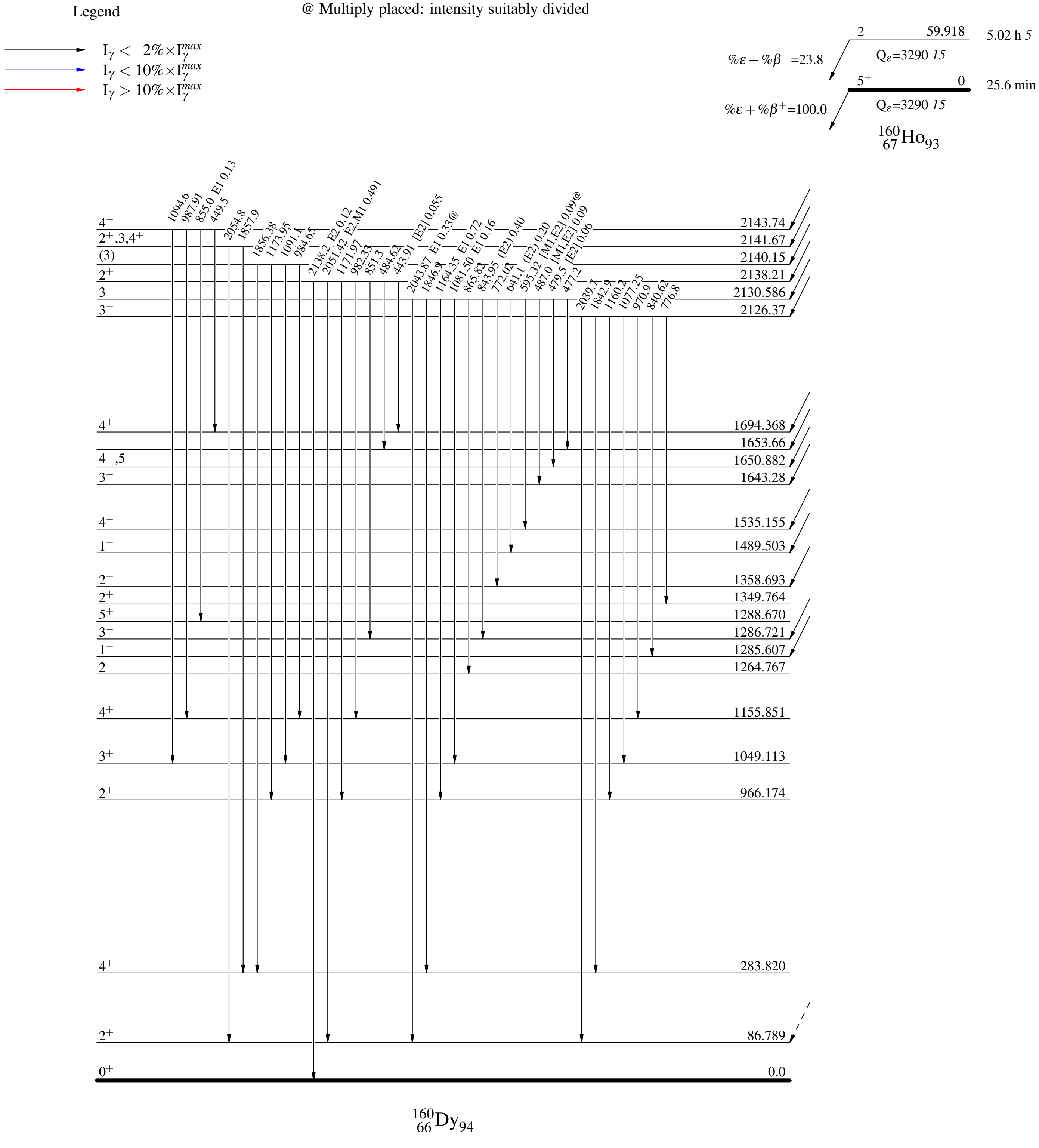
Intensities: Relative $I_{(\gamma+ce)}$
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

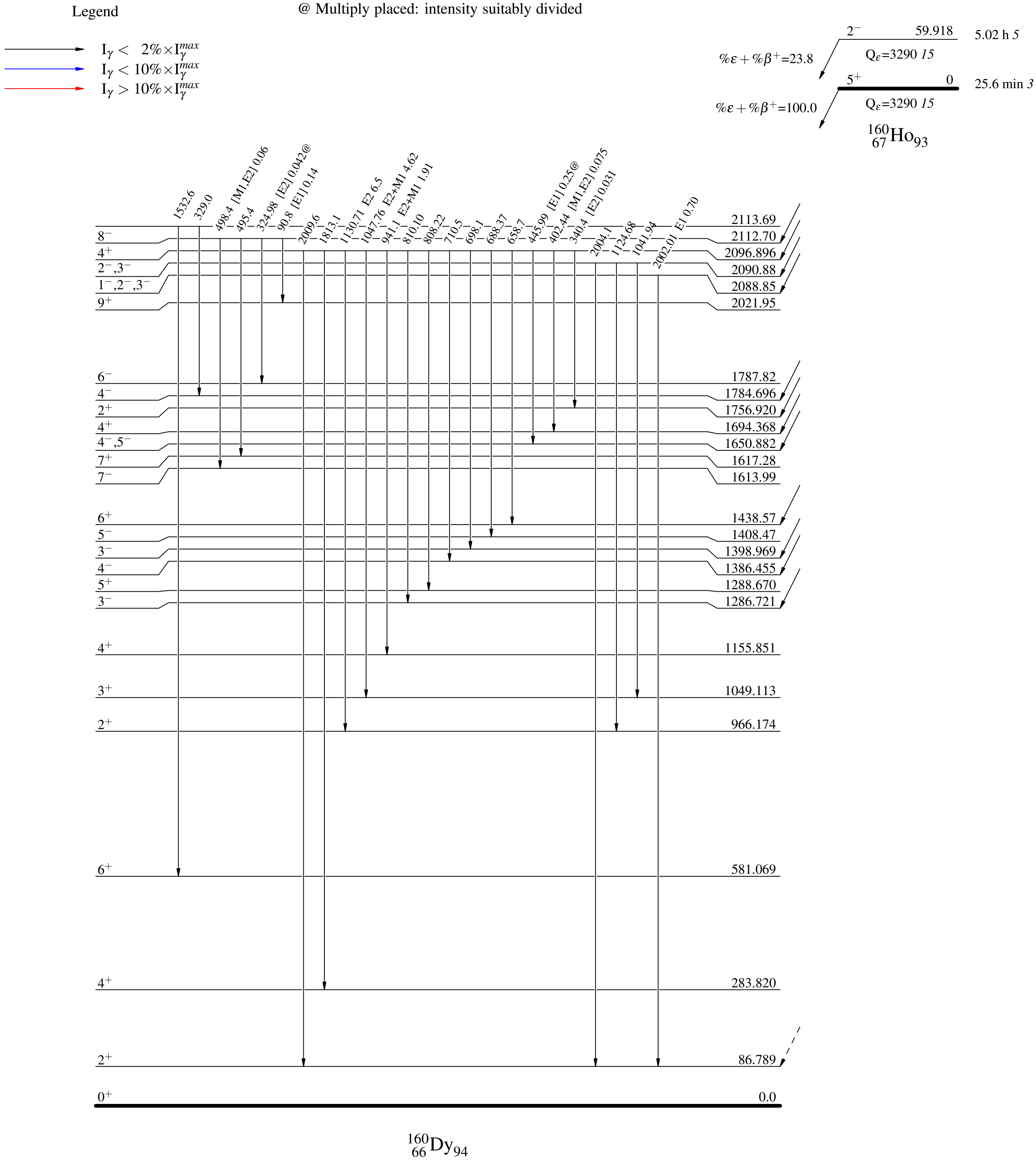
Intensities: Relative $I_{(\gamma+ce)}$
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

Intensities: Relative $I_{(\gamma+ce)}$
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



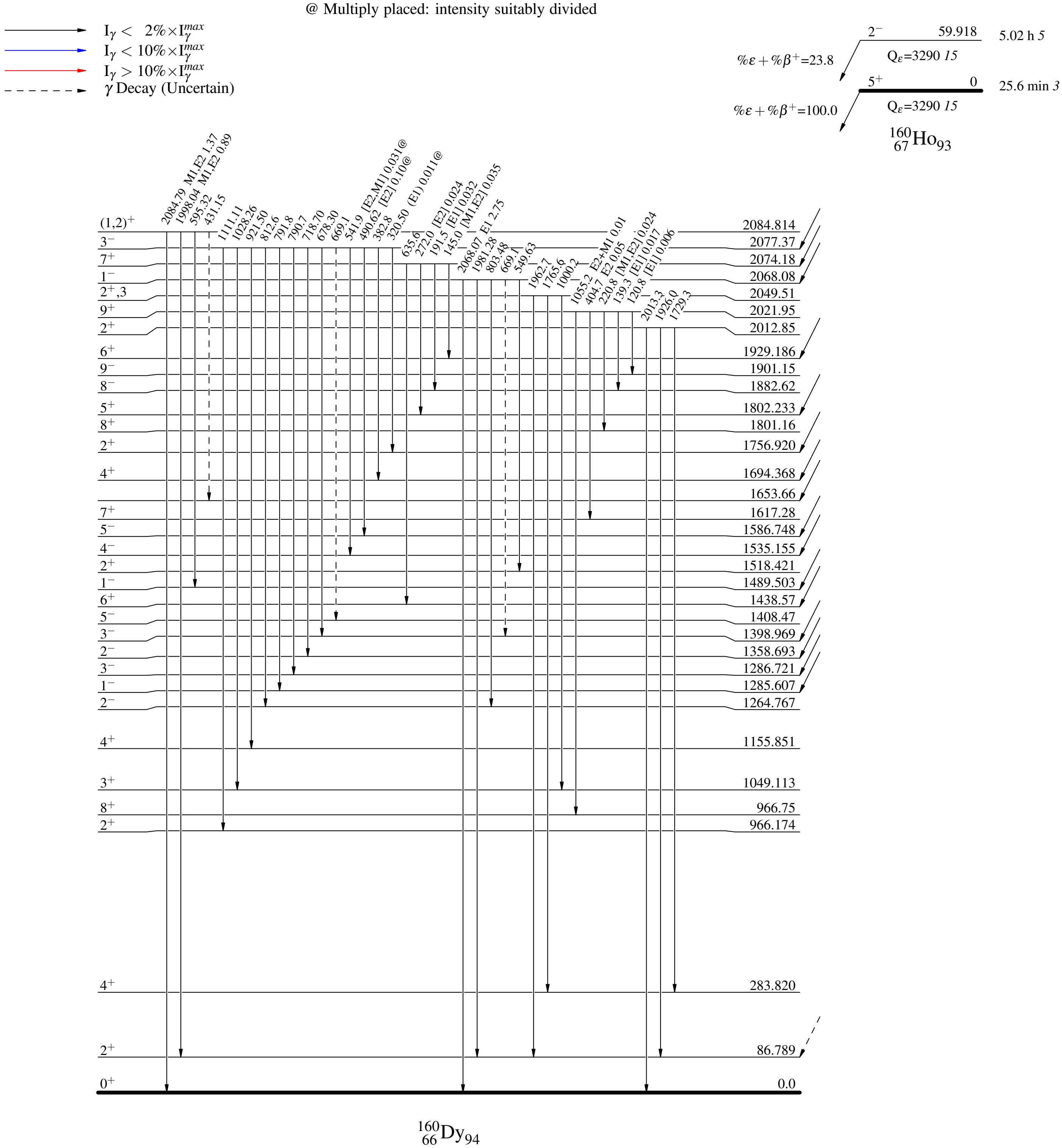
^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

Intensities: Relative $I_{(\gamma+ce)}$

& Multiply placed: undivided intensity given

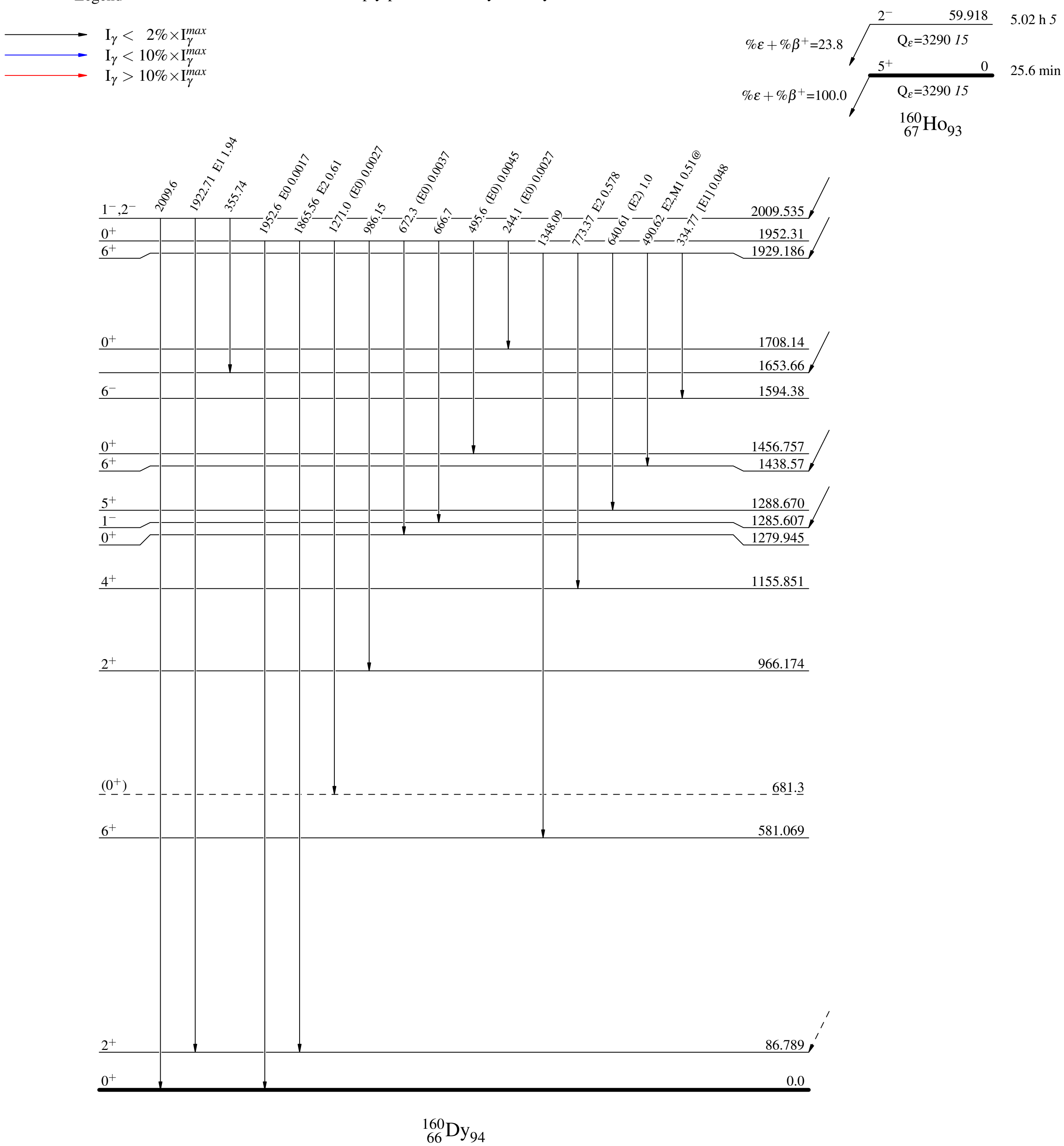
@ Multiply placed: intensity suitably divided



^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

Intensities: Relative $I_{(\gamma+ce)}$
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



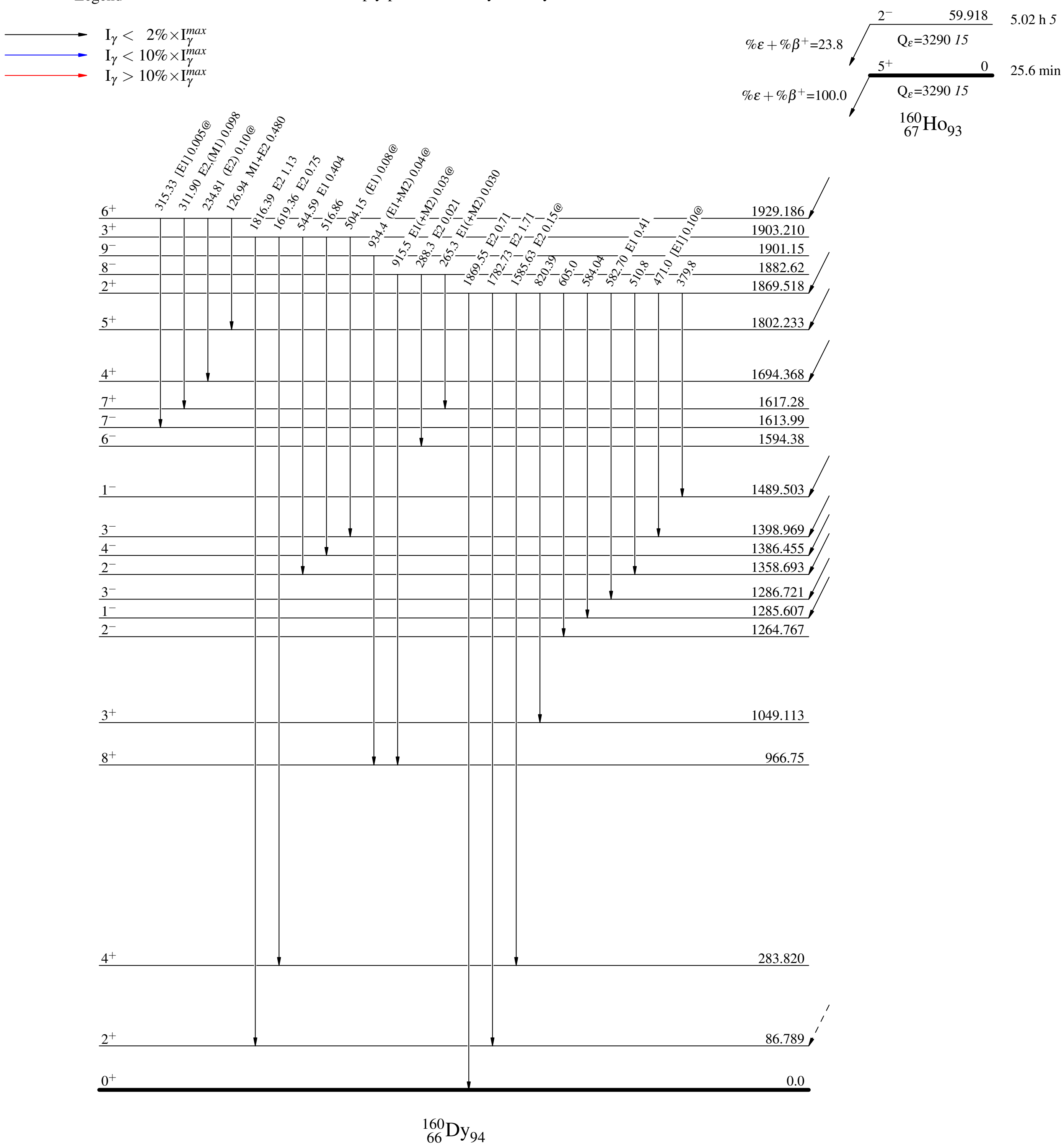
^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

Intensities: Relative $I_{(\gamma+ce)}$

& Multiply placed: undivided intensity given

@ Multiply placed: intensity suitably divided

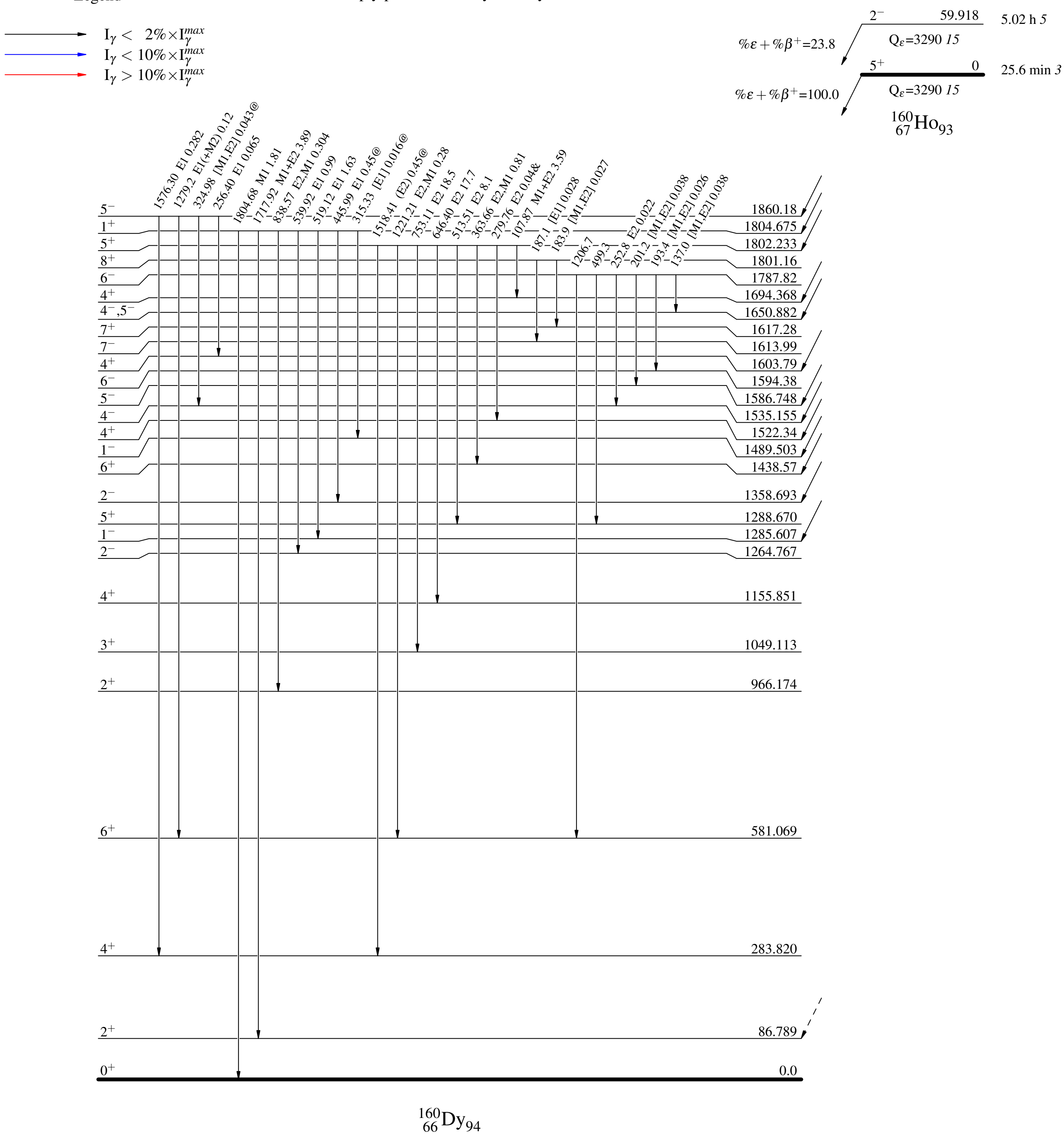


^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

Intensities: Relative $I_{(\gamma+ce)}$
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

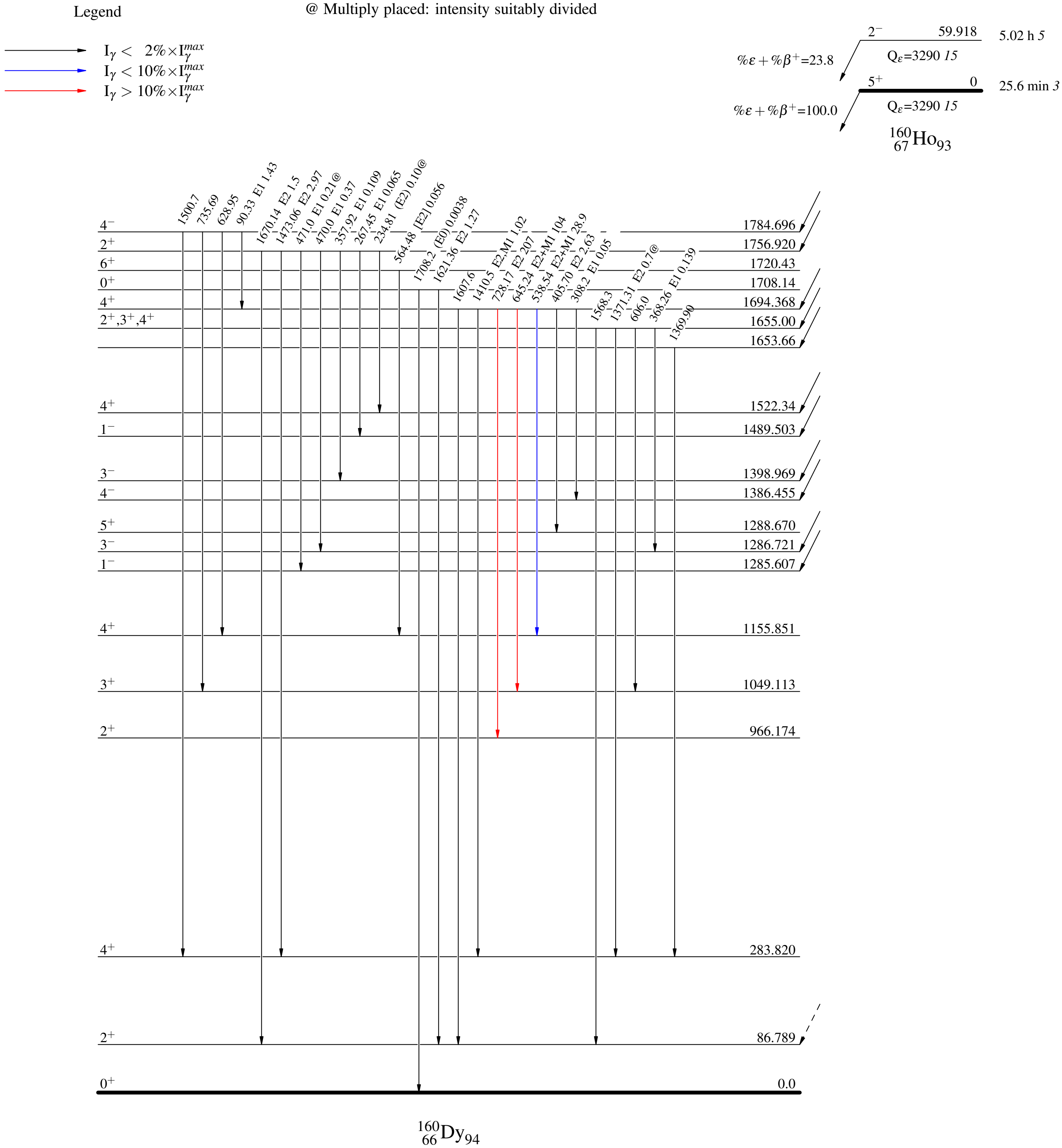
Legend



^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

Intensities: Relative $I_{(\gamma+ce)}$
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



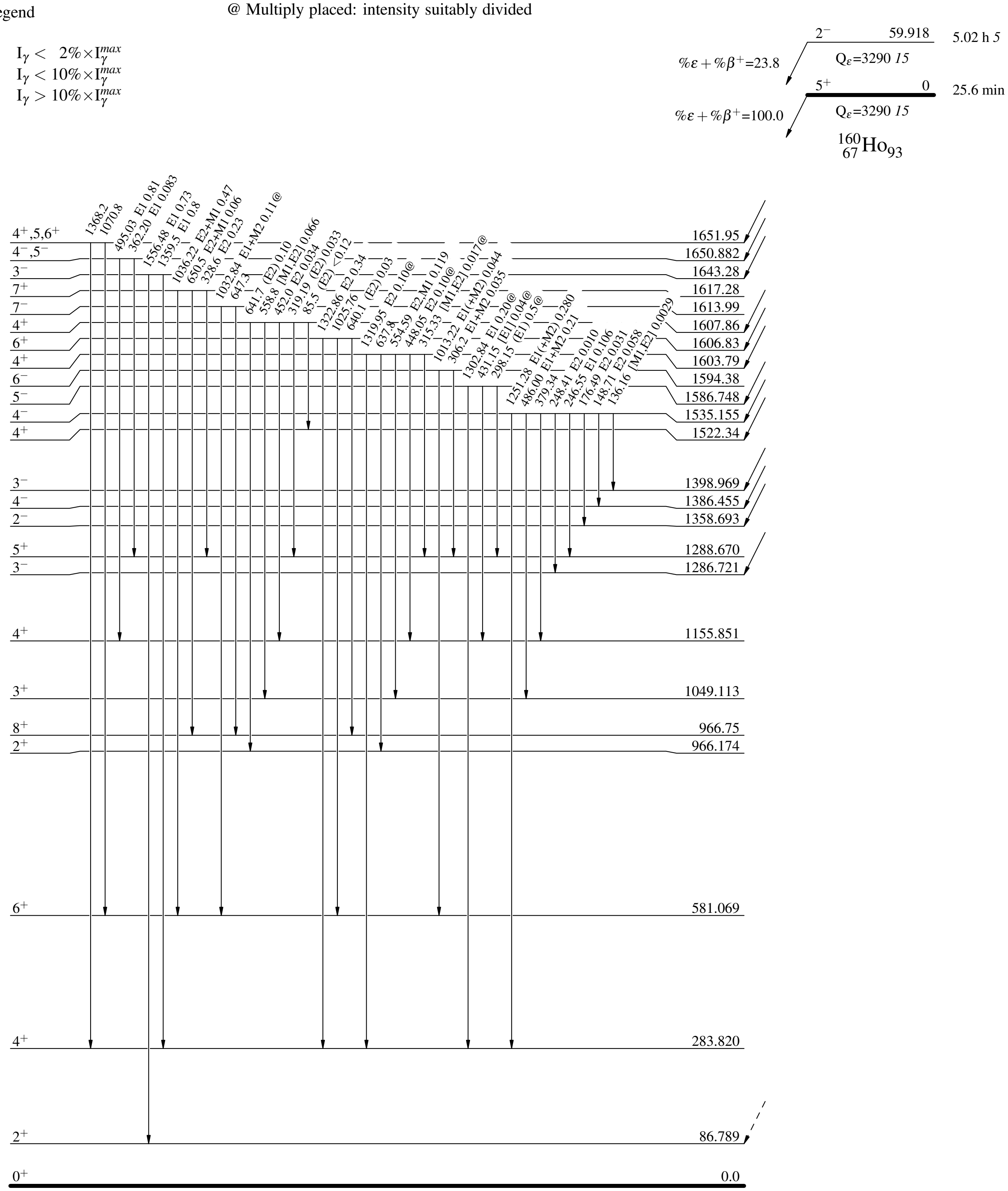
^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

Intensities: Relative $I_{(\gamma+ce)}$
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

Legend

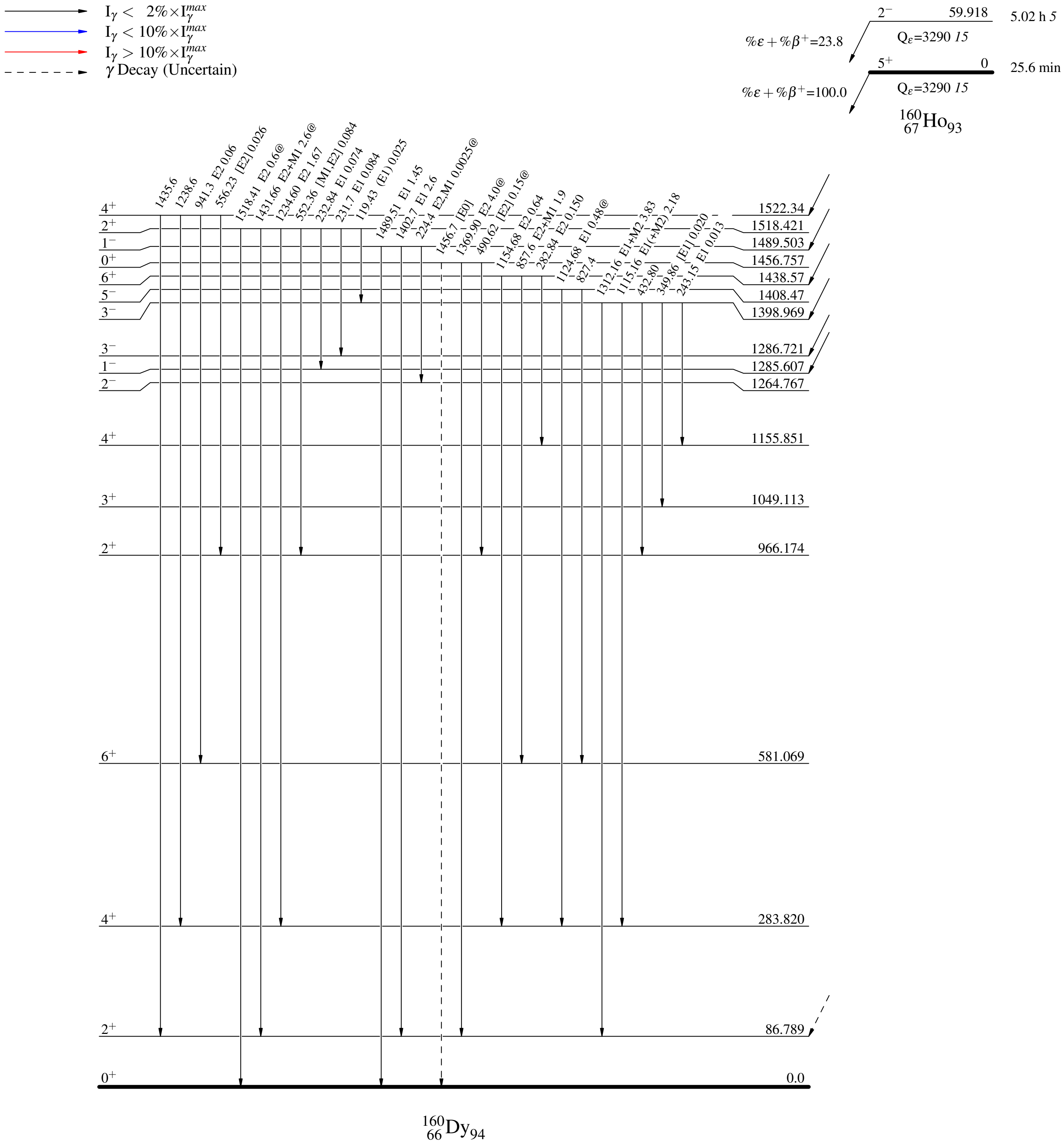
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$



^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

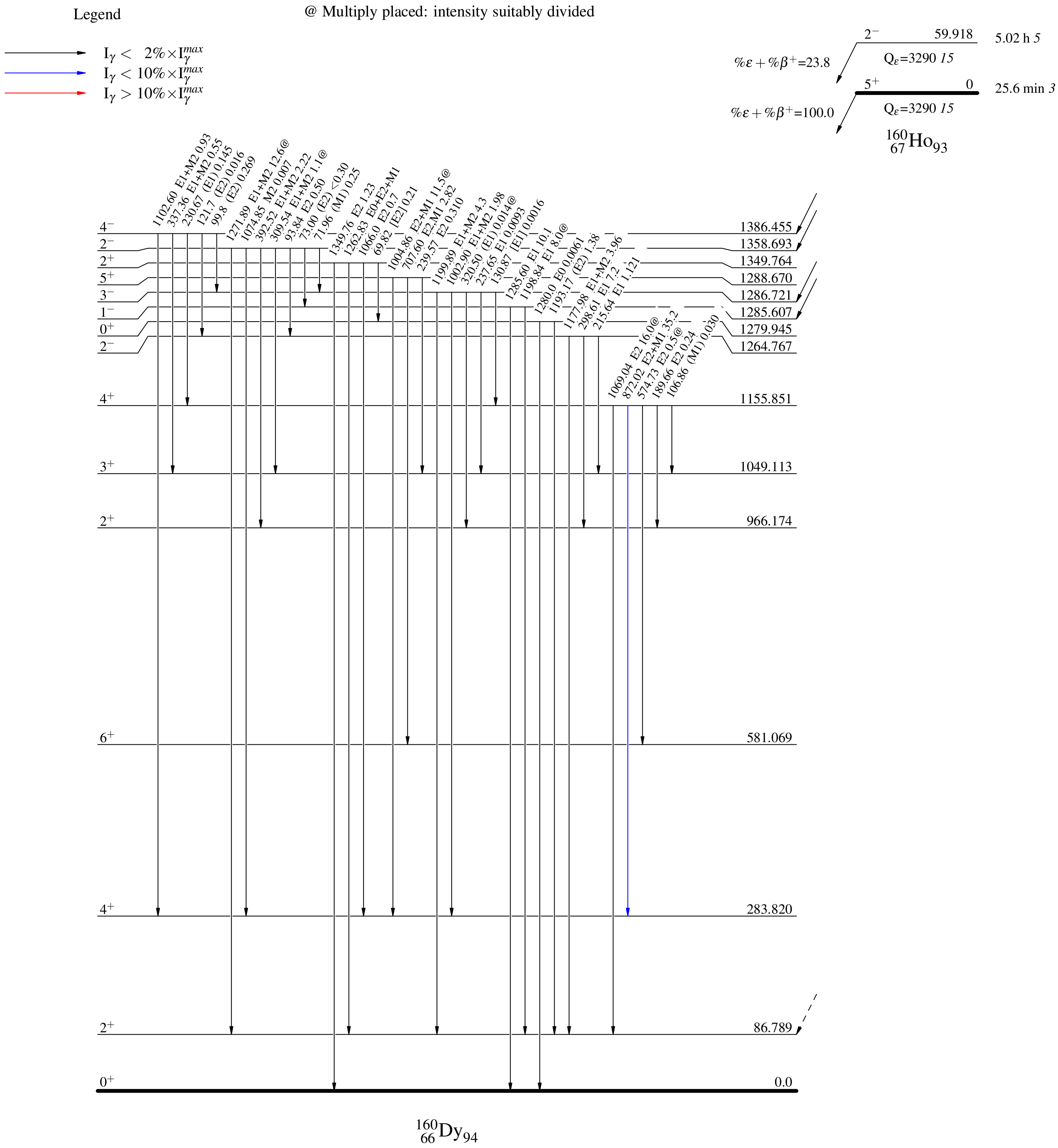
Intensities: Relative $I_{(\gamma+ce)}$
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

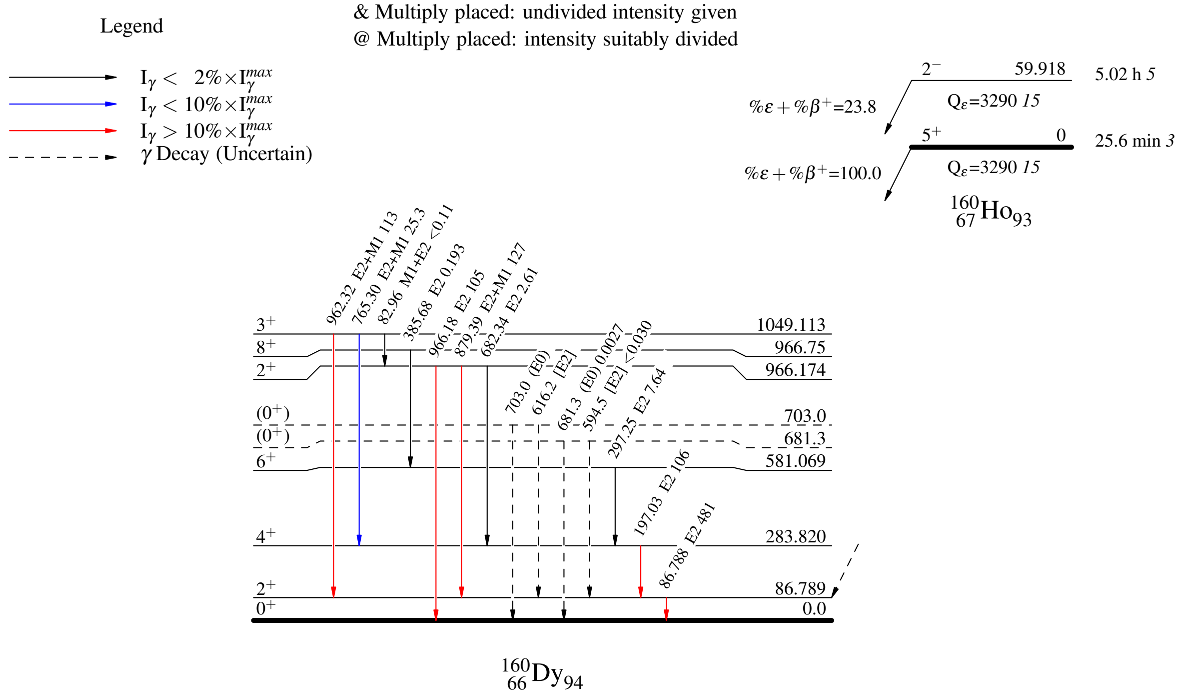
Intensities: Relative $I_{(\gamma+ce)}$
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided



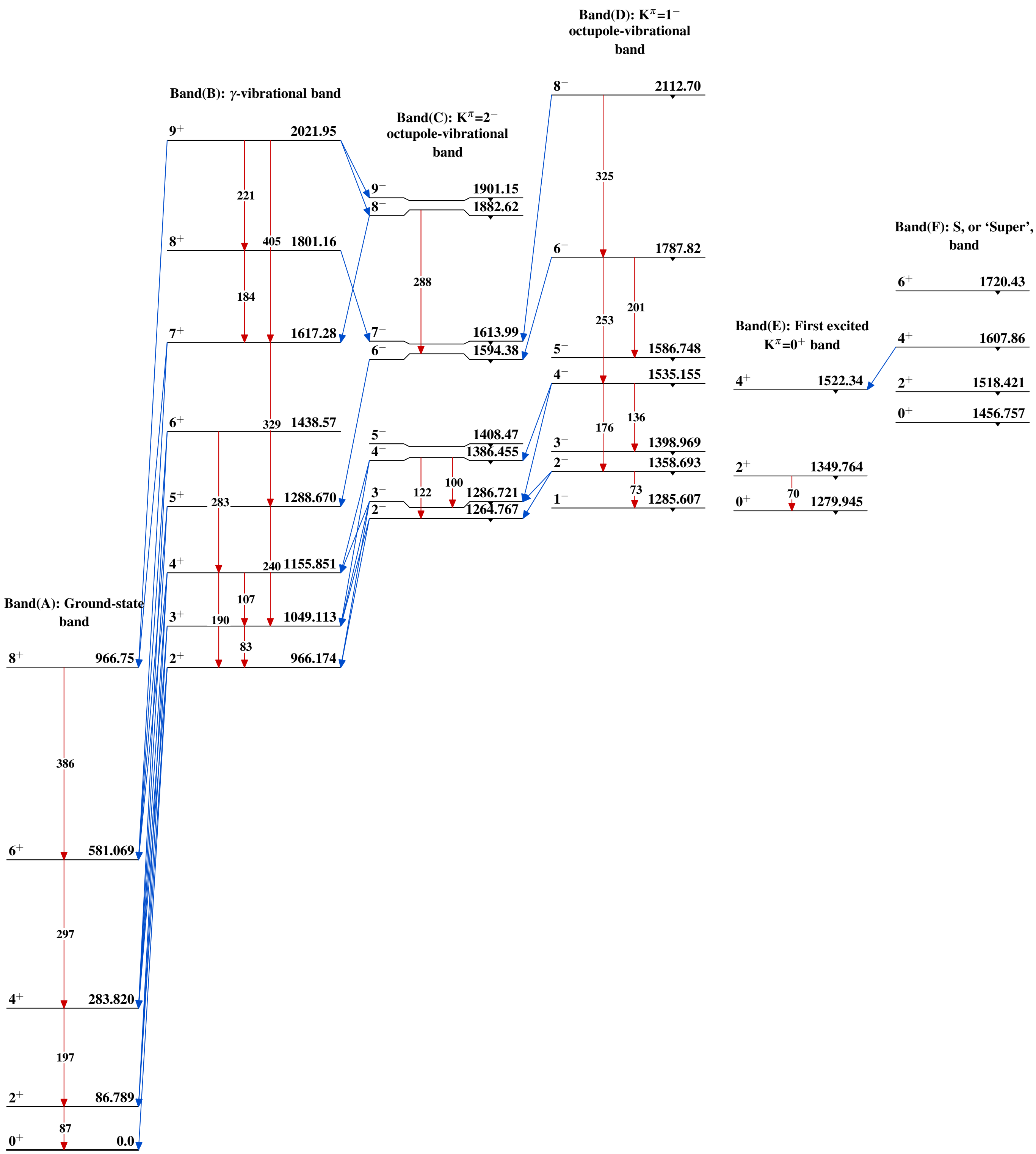
^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21

Decay Scheme (continued)

Intensities: Relative $I_{(\gamma+ce)}$
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

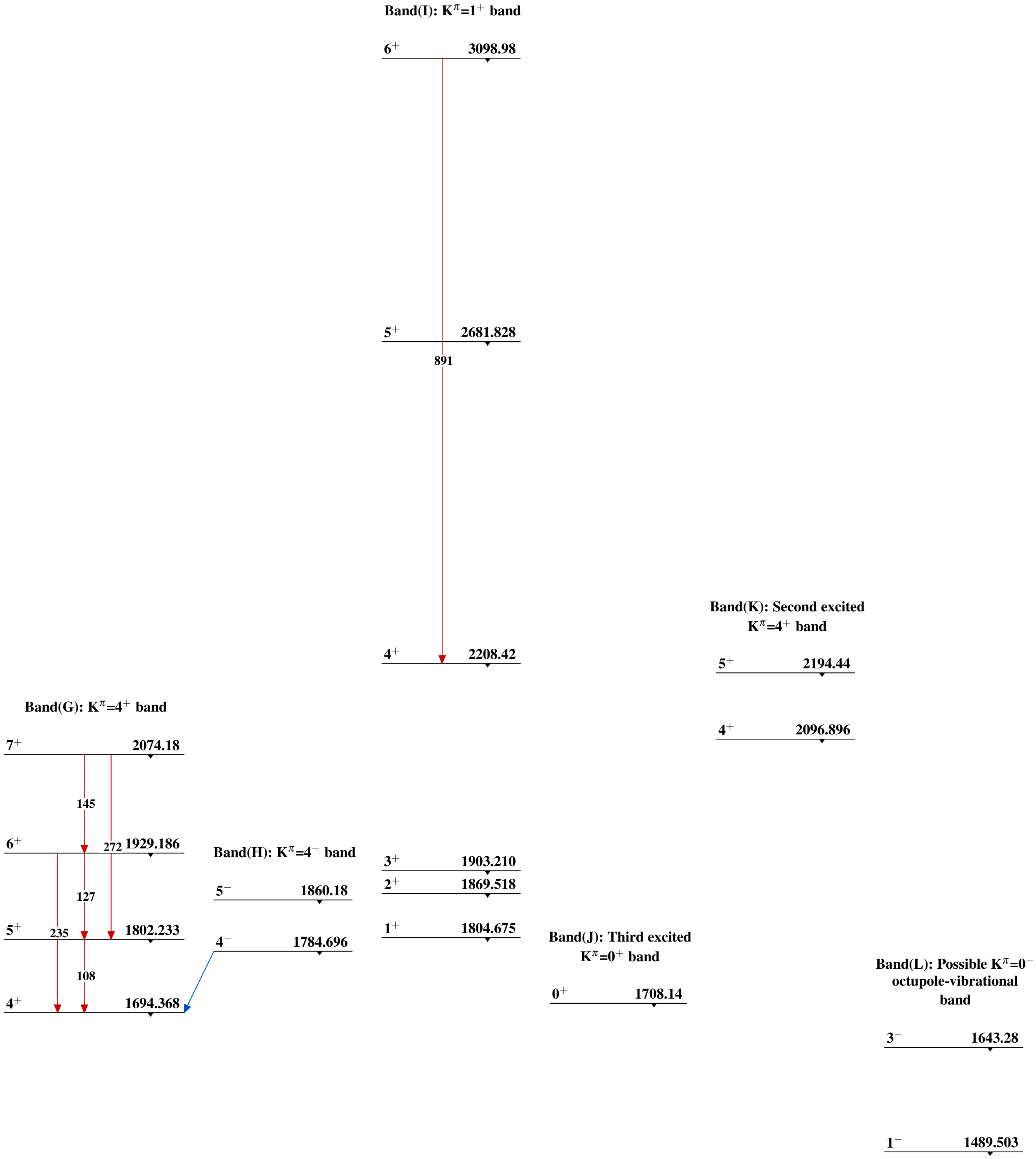


^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21



$^{160}_{66}Dy_{94}$

^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21 (continued)



$^{160}_{66}Dy_{94}$

^{160}Ho ε decay (25.6 min+5.02 h) 2002Ad34,1998Kr21 (continued)