

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, A. A. Sonzogni		NDS 114, 435 (2013)	1-Apr-2013

$Q(\beta^-) = -7364$ 14; S(n)=9685 10; S(p)=5110 5; $Q(\alpha) = 4351.3$ 15 [2017Wa10](#)

$Q(\varepsilon) = 1796$ 8; S(2n)=17593 10; S(2p)=7618 5 [2017Wa10](#)

[Additional information 1.](#)

 ^{150}Dy LevelsCross Reference (XREF) Flags

A	^{150}Ho ε decay (23.5 s)	E	$^{152}\text{Gd}(\alpha, 6n\gamma)$
B	^{150}Ho ε decay (72 s)	F	$^{114}\text{Cd}(^{40}\text{Ar}, 4n\gamma)$
C	^{154}Er α decay	G	$^{144}\text{Sm}(^{12}\text{C}, 2p4n\gamma)$
D	$^{124}\text{Sn}(^{32}\text{S}, 6n\gamma)$	H	$^{141}\text{Pr}(^{16}\text{O}, \text{P6NG})$

E(level) [†]	J ^π #	T _{1/2}	XREF	Comments
0 ^{&}	0 ⁺	7.17 min 5	AB C D E F G H	$\% \varepsilon + \% \beta^+ = 64$ 5; $\% \alpha = 36$ 5 $\% \alpha$: α -branch was determined by a comparison of α -lines from parent and daughter in equilibrium (1977Ha48). 1974To07 give $\% \alpha = 36$ 3 assuming 397 γ ray is 100% branch. Other: 1973Bi06 . T _{1/2} : from 1973Bi06 . 7.3 min 1 given by 1982Bo04 .
803.64 ^{&} 9	2 ⁺		AB EFGH	J ^π : E2 γ to 0 ⁺ g.s.
1394.97 ^a 10	(3 ⁻)		B	J ^π : by analogy with ^{148}Gd .
1456.96 ^{&} 10	4 ⁺		AB EFGH	J ^π : E2 γ to 2 ⁺ , member of g.s. cascade.
1786.37 11	2 ⁺		B	
1850.8 ^{&} 4	6 ⁺		A EFGH	J ^π : E2 γ to 4 ⁺ , member of g.s. cascade.
1892.98 14	(0 ⁺)		B	
1983.18 11	(2 ⁺)		B	
2051.31 12	(4 ⁻)		B	
2186.83 ^a 17	(5 ⁻)		B	
2226.09 11	3, 2 ⁻ , (2 ⁺)		B	
2253.84 21	0 ⁺ to 2, (3 ⁻)		B	
2317.69 16	2 ⁺ , (1)		B	
2321.69 12	(2 ⁺)		B	
2330.88 13	4 ⁺ , 3 ⁺ , (2 ⁺ , 3 ⁻)		B	
2337.08 12	2 ⁺ , (1 ⁻)		B	
2346.62 13	2 ⁺ , (1 ⁻)		B	
2401.6 ^{&} 5	8 ⁺		A EFGH	
2411.96 16	4 ⁺ , (2 ⁺ , 3)		B	
2418.99 20	3 ⁻ , 4, 5 ⁻		B	
2434.86 20	1 ⁻ , 2		B	
2460.94 14	2 ⁺ , (1 ⁻)		B	
2509.6 5			B	
2521.03 15	3, 4 ⁺		B	
2529.18 15	2 ⁺		B	
2583.2 5	(6, 7, 8)		A	J ^π : fed from J ^π =(8, 9, 10) levels but not from (9) ⁺ ^{150}Ho parent.
2618.47 17	3, 4 ⁺ , (2 ⁺)		B	
2635.3 5	2, 3, 4		B	
2671.63 18	0 ⁺		B	
2686.9 6	(8)		A	J ^π : fed in (9) ⁺ ^{150}Ho ε decay; decays to 6 ⁺ level.
2697.08 15	2, 3, 4		B	
2713.56 13	2 ⁺ , (1 ⁻)		B	
2715.0 5	(8)		A	J ^π : fed in (9) ⁺ ^{150}Ho ε decay; decays to 6 ⁺ level.

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Adopted Levels, Gammas (continued) ^{150}Dy Levels (continued)

E(level) [†]	J ^π #	T _{1/2}	XREF	Comments
2740.86 14	3 ⁻ , (2 ⁺)		B	
2800.60 15	2 ⁺ , (1 ⁻)		B	
2812.7 5	9 ⁻		A EF	
2836.5 4			B	
2844.92 16	1 ⁻ , 2, 3 ⁻		B	
2855.81 19	3, (2 ⁺ , 4 ⁺)		B	
2910.9 5	(4, 5, 6)		B	
2928.2 5			B	
2930.32 17	4, (3 ⁻)		B	
2943.90 18	4, (3, 5 ⁻)		B	
2946.8 5	(3, 4, 5)		B	
2955.70 14	3 ⁻ , 4 ⁺		B	
2971.97 17	2 ⁺ , (1 ⁻)		B	
2979.79 16	2, 3		B	
3005.94 16	4 ⁺ , 3 ⁻		B	
3010.3 3	0 ⁺ , 1, 2, (3 ⁻)		B	
3025.6 ^{&} 5	10 ⁺	1.1 ns 3	A EFGH	T _{1/2} : from 1980LuZV, 1979LuZZ in (α, 6nγ).
3038.67 16	2 ⁺ , (1 ⁻)		B	
3067.9 4	2, 3, 4, (1 ⁻)		B	
3069.36 16	1, (2 ⁺)		B	
3082.8 5	(3, 4, 5)		B	
3101.88 15	2, (1 ⁻ , 3 ⁻)		B	
3108.0 5	(3, 4, 5)		B	
3112.59 17	3, (2 ⁺ , 4 ⁺)		B	
3131.40 19	2, 3, (4 ⁺ , 1 ⁻)		B	
3133.9 5	(3, 4, 5)		B	
3141.1 5	0 ⁺ , 1, 2, 3, (4 ⁺)		B	
3150.43 23	4, (3 ⁻ , 5 ⁻)		B	
3152.0 3	3, (2 ⁺ , 4 ⁺)		B	
3156.45 21	3, (4 ⁺)		B	
3172.7 3	(2, 3)		B	
3177.24 20	4 ⁺ , (3 ⁻)		B	
3183.32 17	2 ⁻ , 3 ⁻		B	
3194.6 4	(0 ⁺ to 3)		B	
3197.6 4	(2, 3)		B	
3199.03 21	(3, 4)		B	
3243.8 5	(8, 9, 10) [@]		A	
3257.9 5	(2, 3, 4)		B	
3279.3 3	2 ⁺ , (1 ⁻)		B	
3292.34 17	(3)		B	
3294.2 3	(4)		B	
3304.8 3	(3, 4)		B	
3326.5 5	(0 ⁺ to 3)		B	
3335.4 3	1, 2 ⁺		B	
3339.51 15	2 ⁺ , (1 ⁻)		B	
3348.9 5	(3, 4, 5)		B	
3356.4 3	(3)		B	
3366.2 5	(2, 3, 4)		B	
3378.84 17	3 ⁻		B	
3383.2 3	(3)		B	
3395.0 5	(3, 4, 5)		B	
3405.1 3	(3, 4)		B	
3413.0 5	(3, 4, 5)		B	
3414.4 4	(3, 4)		B	
3422.7 5	(1, 2, 3)		B	
3440.7 4	(1, 2, 3)		B	

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Adopted Levels, Gammas (continued) ^{150}Dy Levels (continued)

E(level) [†]	J ^π #	XREF	E(level) [†]	J ^π #	XREF
3441.1 5	(3,4,5)	B	4000.3 3	(3,2) ⁻	B
3458.74 21	3 ⁻ ,4 ⁺	B	4009.4 5	1 ⁻	B
3464.6 5	(2,3,4)	B	4014.1 7	(8,9,10) [@]	A
3465.3 5	(2,3,4)	B	4045.84 22	(2,3) ⁻	B
3467.0 5	(3,4,5)	B	4052.6 5	(2,3) ⁻	B
3472.0 9	(11 ⁻)	EF	4086.90 23	1 ⁻	B
3473.8 5	(2,3,4)	B	4100.00 22	1 ⁻	B
3480.5 3	(2,3)	B	4102.33 18	1 ⁻ & (2,3) ⁻	B
3496.1 5	(0 ⁺ to 3)	B	4110.2 12		F
3497.0 4	(0 ⁺ ,2,3,4)	B	4116.7 5	(2,3) ⁻	B
3500.66 18	(2,3)	B	4118.9 4	(3,2) ⁻	B
3528.6 3	3,(4 ⁻)	B	4129.2 4	(2,3) ⁻	B
3529.4 4	(0 ⁺ to 3)	B	4149.1 7	(8,9,10) [@]	A
3530.4 4	(1,2,3)	B	4151.6 5	(3,2) ⁻	B
3535.77 22	(2,3) ⁻	B	4154.1 3	(2,3) ⁻	B
3542.3 5	(0 ⁺ to 3)	B	4162.8 3	3 ⁻	B
3550.2 5	(2,3,4)	B	4170.68 24	3 ⁻ & 1 ⁻	B
3565.0 5	(2,3,4)	B	4196.6 5	(2,3) ⁻	B
3567.51 21	3 ⁻	B	4199.1 5	1 ⁻	B
3577.8 5	(0 ⁺ to 3)	B	4208.5 5	(2,3) ⁻	B
3586.1 5	(3,4,5)	B	4216.4 5	(3,2) ⁻	B
3588.9 3	(1 ⁻) & (3 ⁻)	B	4220.65 20	3 ⁻	B
3600.6 3	(3,4)	B	4224.4 4	(3,2) ⁻	B
3613.1 5	(3,4,5)	B	4233.9 5	1 ⁻	B
3638.7 4	(3,4)	B	4253.5 4	(3,2) ⁻	B
3654.7 4	(2,3) ⁻	B	4255.5 5	1 ⁻	B
3660.3 4	(3,4)	B	4264.6 5	(2,3) ⁻	B
3690.58 22	3 ⁻	B	4270.4 5	(2,3) ⁻	B
3693.5 5		B	4278.4 5	3 ⁻	B
3704.26 18	3 ⁻	B	4293.77 24	3 ⁻	B
3724.1 5	(2,3,4)	B	4294.3 6	(8,9,10) [@]	A
3733.19 22	3 ⁻	B	4304.97 20	1 ⁻	B
3743.6 5	(3,4,5)	B	4311.4 5	(2,3) ⁻	B
3749.7 3	(1,2,3)	B	4322.0 4	(2,3) ⁻	B
3766.6 3	(2,3,4)	B	4337.3 & 12	14 ⁺	EFGH
3782.8 5	(2,3,4)	B	4340.2 4	(2,3) ⁻	B
3789.0 4	(0 ⁺ to 3)	B	4342.4 5	1 ⁻	B
3792.6 3	2 ⁺ ,1 ⁻	B	4344.61 13	1 ⁻ & (2,3) ⁻	B
3804.1 3	2 ⁺	B	4355.1 5	1 ⁻	B
3812.8 4	3 ⁻	B	4356.72 15	(2,3) ⁻	B
3814.3 7	(8,9,10) [@]	A	4361.59 17	1 ⁻	B
3834.3 3	1 ⁻	B	4373.4 3	(3) ⁻	B
3834.7 & 9	12 ⁺	EFGH	4377.49 24	1 ⁻	B
3857.86 14	1 ⁻ & 3 ⁻	B	4389.7 3	(2,3) ⁻	B
3870.0 3	3 ⁻	B	4401.05 13	3 ⁻	B
3873.60 22	(2,3) ⁻	B	4417.17 18	(2,3) ⁻	B
3892.2 5	(3,2) ⁻	B	4421.62 12	3 ⁻	B
3895.7 3	1 ⁻	B	4427.13 16	(3,2) ⁻	B
3900.8 4	3 ⁻	B	4429.1 5	(3,2) ⁻	B
3903.7 5	(3,2) ⁻	B	4431.72 18	1 ⁻	B
3916.01 19	3 ⁻	B	4439.15 18	(2,3) ⁻	B
3924.19 18	3 ⁻	B	4443.09 15	(2,3) ⁻	B
3927.0 5	(2,3) ⁻	B	4444.3 5	1 ⁻	B
3929.8 5	(2,3) ⁻	B	4445.95 15	3 ⁻	B
3968.4 3	3 ⁻	B	4449.63 21	1 ⁻	B
3980.9 4	3 ⁻	B	4460.7 3	(3) ⁻	B

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Adopted Levels, Gammas (continued) ^{150}Dy Levels (continued)

E(level) [†]	J ^π [#]	T _{1/2}	XREF	Comments
4469.7 3	(2,3) ⁻		B	
4480.6 3	1 ⁻		B	
4482.64 15	3 ⁻		B	
4486.64 15	(3) ⁻		B	
4487.9 3	1 ⁻		B	
4491.77 13	3 ⁻		B	
4495.52 13	3 ⁻		B	
4511.69 16	1 ⁻ &(2,3) ⁻		B	
4518.50 22	1 ⁻		B	
4519.5 4	(3,2) ⁻		B	
4521.68 21	3 ⁻		B	
4523.53 21	(2,3) ⁻		B	
4544.47 22	1 ⁻ &3 ⁻		B	
4546.6 4	(3,2) ⁻		B	
4548.97 24	(2,3) ⁻		B	
4549.87 24	(2,3) ⁻		B	
4552.14 22	(2,3) ⁻		B	
4553.00 21	(3) ⁻		B	
4566.9& 16	16 ⁺	1.7 ns 2	EFGH	T _{1/2} : from 1980LuZV, 1979LuZZ in (α,6nγ).
4574.26 14	3 ⁻		B	
4576.5 3	(3) ⁻		B	
4584.4 5	1 ⁻		B	
4594.7 5	1 ⁻		B	
4597.24 19	(2,3) ⁻		B	
4601.9 3	3 ⁻		B	
4605.86 19	1 ⁻		B	
4607.7 5	(3,2) ⁻		B	
4610.1 4	3 ⁻		B	
4640.5 4	(2,3) ⁻		B	
4649.0 4	(2,3) ⁻		B	
4653.0 5	1 ⁻		B	
4660.26 24	(2,3) ⁻		B	
4665.93 24	(2,3) ⁻		B	
4668.1 5	(2,3) ⁻		B	
4694.97 21	3 ⁻		B	
4698.11 19	1 ⁻ &3 ⁻		B	
4706.15 15	(2,3) ⁻		B	
4712.3 5	1 ⁻		B	
4718.3 4	(3,2) ⁻		B	
4733.47 24	(2,3) ⁻		B	
4743.77 24	1 ⁻		B	
4753.98 24	3 ⁻		B	
4757.8 3	(2,3) ⁻		B	
4759.4 3	3 ⁻		B	
4766.59 21	(2,3) ⁻		B	
4769.7 5	(3,2) ⁻		B	
4785.2 3	(2,3) ⁻		B	
4789.4 4	3 ⁻		B	
4794.1 5	1 ⁻		B	
4799.3 5	(2,3) ⁻		B	
4803.8 3	(2,3) ⁻		B	
4808.15 21	3 ⁻		B	
4809.2 5	1 ⁻		B	
4835.10 21	(2,3) ⁻		B	
4849.6 4	3 ⁻		B	

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Adopted Levels, Gammas (continued) ^{150}Dy Levels (continued)

E(level) [†]	J ^π #	XREF	E(level) [†]	J ^π #	T _{1/2}	XREF
4870.3 5	(2,3) ⁻	B	7000.4 21	22 ⁽⁻⁾		F
4872.8 4	(2,3) ⁻	B	7047.3 22			F
4881.6 4	3 ⁻	B	7102.3 22	22 ⁺		F
4883.2 5	1 ⁻	B	7288.7 21			F
4901.2 3	(2,3) ⁻	B	7372.5? 22			D
4909.7 5	(2,3) ⁻	B	7473.7 21	22 ⁻		D F H
4937.7 5	(2,3) ⁻	B	7650.3 22			F
4949.4 3	3 ⁻	B	7725.8? 23			D
4956.4 5	3 ⁻	B	7741.0 21	23 ⁻		D F H
4972.8 5	(2,3) ⁻	B	7755.1? 22			D
4995.5 3	(2,3) ⁻	B	7955.2 22			F
5000.7 5	1 ⁻	B	8008.2 21	24 ⁻		D F H
5005.9 5	(2,3) ⁻	B	8123? 3			D
5010.6 4	(2,3) ⁻	B	8303.2 22			F
5031.6 5	1 ⁻	B	8404.9? 23			D
5032.8 5	(2,3) ⁻	B	8425.1 22			F
5035.3 5	(2,3) ⁻	B	8445.1 22			F
5067.7 5	(2,3) ⁻	B	8481.2 22			F
5071.1 & 18	18 ⁺	DEFGH	8544.8 22			F
5076.8 5	(2,3) ⁻	B	8610.8 22	25 ⁻		D F H
5088.6 3	3 ⁻	B	8729.4 22			F
5098.5 5	(2,3) ⁻	B	8763.8 22			F
5106.3 5	(2,3) ⁻	B	8777.8 23			F
5110.7 5	(2,3) ⁻	B	8828.9? 23			D
5129.0 5	(2,3) ⁻	B	8843.6 22	(23 ⁻)		F
5142.8 4	(3,2) ⁻	B	8868.1 22			F
5165.6 4	3 ⁻	B	8904.7 22			F
5176.2 5	(2,3) ⁻	B	8921.2 22	(23 ⁻)		F H
5181.1 5	(2,3) ⁻	B	8951.6 23			F
5193.7 5	(2,3) ⁻	B	9063.4 22			F
5207.7 5	(2,3) ⁻	B	9106.8 22	26 ⁺		F H
5211.3 5	(2,3) ⁻	B	9274.5 21	(25 ⁻)		F H
5218.7 4	(2,3) ⁻	B	9305.9 23	(27 ⁺)		F H
5225.0 5	(3,2) ⁻	B	9398.9? 23			F
5246.7 5	(2,3) ⁻	B	9896.1 22	(26 ⁻)		F H
5250.4 3	3 ⁻	B	9974.8 22	(27 ⁻)		F H
5251.6 5	(3,2) ⁻	B	10238.6 24	(29 ⁻)		F
5254.6 3	3 ⁻	B	10327.3 22	(29 ⁻)	1.6 ^b ns 6	F H
5296.1 4	3 ⁻	B	10889.2 23			F
5327.5 5	(2,3) ⁻	B	11005.9 24	(30 ⁻)		F H
5334.1 5	(2,3) ⁻	B	11218.4 24	(31 ⁻)		F
5353.2 5	3 ⁻	B	11304.8 23	(31 ⁻)		F H
5359.6 5	1 ⁻	B	11392.3 24			F
5414.7 5	(2,3) ⁻	B	11701.8 24	(32 ⁻)		F H
5415.9 ‡ 18	17 ⁽⁺⁾	EF	11803 3			F
5450.8 5	(2,3) ⁻	B	12317 3			F
5613.3 ‡ 19	18 ⁽⁻⁾	EF	12352.5 24	(33 ⁻)		F H
5661.9 5	(2,3) ⁻	B	12498.2 25	(33)		F
5725.5 5	(2,3) ⁻	B	12735.7 25	(34 ⁺)		F H
5813.1 19	19 ⁻	DEFGH	12776.4 25	(34 ⁻)		F H
5880.4 5	(2,3) ⁻	B	12927 3	(35)		F H
5887.9 5	(2,3) ⁻	B	13598 3	(36)		F H
6018.6 20	20 ⁻	DEFGH	13803 3	(36 ⁺)		F H
6394.7 21	21 ⁻	DEF H	14056 3	(37)		F H
6815.6 21		F	14992 3	(39)		F

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Adopted Levels, Gammas (continued) ^{150}Dy Levels (continued)

<u>E(level)[†]</u>	<u>XREF</u>
15947 3	F
16291 3	F

[†] From least squares fit to γ -energies, except otherwise noted.

[‡] The order of the 200-, 197-, and 849-keV γ rays was not established by the data.

[#] J^π assignments for levels up to 21^- are from $(\alpha,6n\gamma)$ (1980LuZV, 1979LuZZ) and are based on multiplicities determined by authors from their ϵ and $\gamma(\theta)$ data, unless otherwise noted. A cascade to g.s. consisting of stretched Q transitions is built up to 18^+ . The higher J^π values are from 1987De23 based on t, $\gamma(\theta)$, and constraints on different cascades ending at the same level and other systematics. See 1987De23 for suggested configurations for high-spin levels. The low-spin values are derived mainly from $\log ft$ values as well as gamma decay pattern.

[@] Fed in ϵ decay from $(9)^+$ parent.

[&] Band(A): Yrast band.

^a Band(B): Negative parity band.

^b From $^{141}\text{Pr}(^{16}\text{O},\text{P6NG})$.

 $\gamma(^{150}\text{Dy})$

<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>E_γ</u>	<u>I_γ</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Mult.[#]</u>	<u>$\alpha^{\&}$</u>	<u>Comments</u>
803.64	2^+	803.62 16	100	0	0^+	E2	0.00486 7	$\alpha(\text{K})=0.00405$ 6; $\alpha(\text{L})=0.000636$ 9; $\alpha(\text{M})=0.0001407$ 20; $\alpha(\text{N})=3.24\times 10^{-5}$ 5; $\alpha(\text{O})=4.61\times 10^{-6}$ 7 $\alpha(\text{P})=2.33\times 10^{-7}$ 4; $\alpha(\text{N}+..)=3.72\times 10^{-5}$ 6 E_γ : weighted average of 803.3 2 (^{150}Ho ϵ decay (23.3 s)), 803.7 1 (^{150}Ho ϵ decay (72 s)).
1394.97	(3^-)	591.3 2	100	803.64	2^+	E2	0.00780 11	$\alpha(\text{K})=0.00642$ 9; $\alpha(\text{L})=0.001079$ 16; $\alpha(\text{M})=0.000240$ 4; $\alpha(\text{N})=5.52\times 10^{-5}$ 8; $\alpha(\text{O})=7.77\times 10^{-6}$ 11 $\alpha(\text{P})=3.66\times 10^{-7}$ 6; $\alpha(\text{N}+..)=6.33\times 10^{-5}$ 9 E_γ : weighted average of 653.3 3 (^{150}Ho ϵ decay (23.3 s)), 653.41 19 (^{150}Ho ϵ decay (72 s)).
1456.96	4^+	653.38 16	100	803.64	2^+			
1786.37	2^+	983.1 5	100	803.64	2^+	E2	0.0289	$\alpha(\text{K})=0.0227$ 4; $\alpha(\text{L})=0.00487$ 7; $\alpha(\text{M})=0.001109$ 16; $\alpha(\text{N})=0.000253$ 4; $\alpha(\text{O})=3.41\times 10^{-5}$ 5 $\alpha(\text{P})=1.235\times 10^{-6}$ 18; $\alpha(\text{N}+..)=0.000288$ 4 E_γ : from ^{150}Ho ϵ decay (23.3 s).
1850.8	6^+	1786.2 5	57	0	0^+			
		393.8 4	100	1456.96	4^+			
1892.98	(0^+)	1089.4 5	100	803.64	2^+			
1983.18	(2^+)	1180.1 5	100	803.64	2^+			
		1983.2 5	52	0	0^+			
2051.31	(4^-)	656.8 5	100	1394.97	(3^-)			
2186.83	(5^-)	730.4 5	72	1456.96	4^+			
		792.2 5	100	1394.97	(3^-)			
2226.09	$3,2^-, (2^+)$	243.5 5	4.4	1983.18	(2^+)			
		831.5 5	100	1394.97	(3^-)			
		1422.3 5	68	803.64	2^+			

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Adopted Levels, Gammas (continued)

$\gamma(^{150}\text{Dy})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult. #	α &	Comments
2253.84	0 ⁺ to 2 ₁ (3 ⁻)	1449.9 5	100	803.64	2 ⁺			
2317.69	2 ⁺ , (1)	425.3 5	1.92	1892.98	(0 ⁺)			
		1514.2 5	100	803.64	2 ⁺			
2321.69	(2 ⁺)	338.6 5	3.0	1983.18	(2 ⁺)			
		427.9 5	0.175	1892.98	(0 ⁺)			
		535.7 5	6.3	1786.37	2 ⁺			
		927.0 5	100	1394.97	(3 ⁻)			
2330.88	4 ⁺ , 3 ⁺ , (2 ⁺ , 3 ⁻)	874.2 5	100	1456.96	4 ⁺			
		1527.1 5	30	803.64	2 ⁺			
2337.08	2 ⁺ , (1 ⁻)	942.5 5	2.6	1394.97	(3 ⁻)			
		1533.2 5	15.0	803.64	2 ⁺			
		2337.2 5	100	0	0 ⁺			
2346.62	2 ⁺ , (1 ⁻)	363.8 5	3.6	1983.18	(2 ⁺)			
		453.9 5	0.70	1892.98	(0 ⁺)			
		560.9 5	11.1	1786.37	2 ⁺			
		1542.8 5	15.6	803.64	2 ⁺			
		2346.6 5	100	0	0 ⁺			
2401.6	8 ⁺	550.8 2	100	1850.8	6 ⁺	E2	0.01182	$\alpha(\text{K})=0.00960$ 14; $\alpha(\text{L})=0.001731$ 25; $\alpha(\text{M})=0.000388$ 6; $\alpha(\text{N})=8.89 \times 10^{-5}$ 13; $\alpha(\text{O})=1.236 \times 10^{-5}$ 18; $\alpha(\text{P})=5.42 \times 10^{-7}$ 8; $\alpha(\text{N}+..)=0.0001018$ 15 E_γ : from ^{150}Ho ε decay (23.3 s).
2411.96	4 ⁺ , (2 ⁺ , 3)	625.4 5	2.01	1786.37	2 ⁺			
		955.5 5	40	1456.96	4 ⁺			
		1017.2 5	5.2	1394.97	(3 ⁻)			
		1608.9 5	100	803.64	2 ⁺			
2418.99	3 ⁻ , 4, 5 ⁻	232.2 5	1.76	2186.83	(5 ⁻)			
		962.2 5	100	1456.96	4 ⁺			
		1023.7 5	14.1	1394.97	(3 ⁻)			
2434.86	1 ⁻ , 2	1040.4 5	6.4	1394.97	(3 ⁻)			
		1631.2 5	100	803.64	2 ⁺			
2460.94	2 ⁺ , (1 ⁻)	1066.2 5	27	1394.97	(3 ⁻)			
		1657.0 5	100	803.64	2 ⁺			
		2460.9 5	39	0	0 ⁺			
2509.6		1706.0 5	100	803.64	2 ⁺			
2521.03	3, 4 ⁺	470.1 5	8.8	2051.31	(4 ⁻)			
		538.1 5	9.9	1983.18	(2 ⁺)			
		734.0 5	45	1786.37	2 ⁺			
		1064.5 5	100	1456.96	4 ⁺			
		1126.6 5	33	1394.97	(3 ⁻)			
		1717.4 5	77	803.64	2 ⁺			
2529.18	2 ⁺	1072.1 5	4.3	1456.96	4 ⁺			
		1134.5 5	33	1394.97	(3 ⁻)			
		1725.4 5	22.3	803.64	2 ⁺			
		2529.2 5	100	0	0 ⁺			
2583.2	(6, 7, 8)	732.5 4	100	1850.8	6 ⁺			
2618.47	3, 4 ⁺ , (2 ⁺)	1161.8 5	29	1456.96	4 ⁺			
		1814.8 5	100	803.64	2 ⁺			
2635.3	2, 3, 4	1240.3 5	100	1394.97	(3 ⁻)			
2671.63	0 ⁺	885.6 5	2.06	1786.37	2 ⁺			
		1868.0 5	100	803.64	2 ⁺			
2686.9	(8)	836.1 5	100	1850.8	6 ⁺			
2697.08	2, 3, 4	366.5 5	20.7	2330.88	4 ⁺ , 3 ⁺ , (2 ⁺ , 3 ⁻)			

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

$\gamma(^{150}\text{Dy})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult. #	$\alpha\&$	Comments
2697.08	2,3,4	1240.4 5	100	1456.96	4 ⁺			
		1302.4 5	14.6	1394.97	(3 ⁻)			
2713.56	2 ⁺ , (1 ⁻)	927.4 5	5.4	1786.37	2 ⁺			
		1319.0 5	38	1394.97	(3 ⁻)			
		1910.2 5	13.7	803.64	2 ⁺			
		2713.3 5	100	0	0 ⁺			
2715.0	(8)	864.2 2	100	1850.8	6 ⁺			
2740.86	3 ⁻ , (2 ⁺)	757.9 5	13.5	1983.18	(2 ⁺)			
		954.6 5	16.0	1786.37	2 ⁺			
		1284.3 5	100	1456.96	4 ⁺			
		1345.8 5	7.1	1394.97	(3 ⁻)			
		1937.6 5	40	803.64	2 ⁺			
2800.60	2 ⁺ , (1 ⁻)	818.0 5	2.17	1983.18	(2 ⁺)			
		1014.4 5	19.7	1786.37	2 ⁺			
		1997.4 5	28	803.64	2 ⁺			
		2800.2 5	100	0	0 ⁺			
2812.7	9 ⁻	411.2 3	100	2401.6	8 ⁺	E1	0.00803 12	$\alpha(\text{K})=0.00682$ 10; $\alpha(\text{L})=0.000947$ 14; $\alpha(\text{M})=0.000206$ 3; $\alpha(\text{N})=4.75\times 10^{-5}$ 7; $\alpha(\text{O})=6.83\times 10^{-6}$ 10 $\alpha(\text{P})=3.68\times 10^{-7}$ 6; $\alpha(\text{N}+..)=5.46\times 10^{-5}$ 8 E_γ : from ^{150}Ho ε decay (23.3 s).
2836.5		1049.6 5	4.0	1786.37	2 ⁺			
		2033.4 5	100	803.64	2 ⁺			
2844.92	1 ⁻ , 2, 3 ⁻	862.0 5	7.4	1983.18	(2 ⁺)			
		1058.4 5	3.4	1786.37	2 ⁺			
		1449.6 5	58	1394.97	(3 ⁻)			
		2041.3 5	100	803.64	2 ⁺			
2855.81	3, (2 ⁺ , 4 ⁺)	872.8 5	12.1	1983.18	(2 ⁺)			
		1069.0 5	23.7	1786.37	2 ⁺			
		1399.2 5	100	1456.96	4 ⁺			
		2051.7 5	47	803.64	2 ⁺			
2910.9	(4, 5, 6)	724.1 5	100	2186.83	(5 ⁻)			
2928.2		1141.8 5	100	1786.37	2 ⁺			
2930.32	4, (3 ⁻)	704.1 5	16.2	2226.09	3, 2 ⁻ , (2 ⁺)			
		744.0 5	2.15	2186.83	(5 ⁻)			
		879.1 5	100	2051.31	(4 ⁻)			
2943.90	4, (3, 5 ⁻)	525.2 5	9.0	2418.99	3 ⁻ , 4, 5 ⁻			
		1486.8 5	17.3	1456.96	4 ⁺			
		1548.9 5	100	1394.97	(3 ⁻)			
2946.8	(3, 4, 5)	1489.8 5	100	1456.96	4 ⁺			
2955.70	3 ⁻ , 4 ⁺	625.0 5	4.0	2330.88	4 ⁺ , 3 ⁺ , (2 ⁺ , 3 ⁻)			
		634.0 5	2.7	2321.69	(2 ⁺)			
		730.2 5	8.7	2226.09	3, 2 ⁻ , (2 ⁺)			
		769.1 5	4.4	2186.83	(5 ⁻)			
		904.3 5	5.9	2051.31	(4 ⁻)			
		972.6 5	3.8	1983.18	(2 ⁺)			
		1499.0 5	21.8	1456.96	4 ⁺			
		1560.9 5	15.3	1394.97	(3 ⁻)			
		2152.1 5	100	803.64	2 ⁺			
2971.97	2 ⁺ , (1 ⁻)	1185.9 5	14.2	1786.37	2 ⁺			
		2168.5 5	100	803.64	2 ⁺			
		2972.0 5	52	0	0 ⁺			
2979.79	2, 3	996.7 5	5.0	1983.18	(2 ⁺)			

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Adopted Levels, Gammas (continued)

$\gamma(^{150}\text{Dy})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult. [#]	α &	Comments
2979.79	2,3	2175.9 5	100	803.64	2 ⁺			
3005.94	4 ⁺ ,3 ⁻	684.0 5	15.9	2321.69	(2 ⁺)			
		780.0 5	10.8	2226.09	3,2 ⁻ , (2 ⁺)			
		818.7 5	1.81	2186.83	(5 ⁻)			
		1022.8 5	2.9	1983.18	(2 ⁺)			
		1220.0 5	40	1786.37	2 ⁺			
		1610.7 5	100	1394.97	(3 ⁻)			
3010.3	0 ⁺ ,1,2,(3 ⁻)	673.3 5	12.2	2337.08	2 ⁺ , (1 ⁻)			
		2206.8 5	100	803.64	2 ⁺			
3025.6	10 ⁺	212.9		2812.7	9 ⁻			E_γ : observed only in $^{152}\text{Gd}(\alpha,6n\gamma)$ and $^{114}\text{Cd}(^{40}\text{Ar},4n\gamma)$.
		624.0 2		2401.6	8 ⁺	E2	0.00870 13	$\alpha(\text{K})=0.00713$ 10; $\alpha(\text{L})=0.001221$ 17; $\alpha(\text{M})=0.000272$ 4; $\alpha(\text{N})=6.25\times 10^{-5}$ 9; $\alpha(\text{O})=8.77\times 10^{-6}$ 13 $\alpha(\text{P})=4.06\times 10^{-7}$ 6; $\alpha(\text{N+..})=7.17\times 10^{-5}$ 10
								E_γ : from ^{150}Ho ε decay (23.3 s).
3038.67	2 ⁺ , (1 ⁻)	1643.7 5	100	1394.97	(3 ⁻)			
		2234.7 5	64	803.64	2 ⁺			
		3039.0 5	84	0	0 ⁺			
3067.9	2,3,4,(1 ⁻)	737.1 5	100	2330.88	4 ⁺ ,3 ⁺ , (2 ⁺ ,3 ⁻)			
3069.36	1,(2 ⁺)	3069.4 5	100	0	0 ⁺			
3082.8	(3,4,5)	1031.5 5	100	2051.31	(4 ⁻)			
3101.88	2,(1 ⁻ ,3 ⁻)	1315.3 5	6.7	1786.37	2 ⁺			
		2298.2 5	100	803.64	2 ⁺			
3108.0	(3,4,5)	1651.0 5	100	1456.96	4 ⁺			
3112.59	3,(2 ⁺ ,4 ⁺)	781.2 5	11.0	2330.88	4 ⁺ ,3 ⁺ , (2 ⁺ ,3 ⁻)			
		859.3 5	24.3	2253.84	0 ⁺ to 2,(3 ⁻)			
		1129.1 5	28	1983.18	(2 ⁺)			
		1326.6 5	57	1786.37	2 ⁺			
		1655.6 5	100	1456.96	4 ⁺			
		2308.7 5	64	803.64	2 ⁺			
3131.40	2,3,(4 ⁺ ,1 ⁻)	610.7 5	46	2521.03	3,4 ⁺			
		785.0 5	9.7	2346.62	2 ⁺ , (1 ⁻)			
		1345.4 5	53	1786.37	2 ⁺			
		2327.9 5	100	803.64	2 ⁺			
3133.9	(3,4,5)	1676.9 5	100	1456.96	4 ⁺			
3141.1	0 ⁺ ,1,2,3,(4 ⁺)	2337.4 5	100	803.64	2 ⁺			
3150.43	4,(3 ⁻ ,5 ⁻)	731.0 5	18.8	2418.99	3 ⁻ ,4,5 ⁻			
		963.7 5	100	2186.83	(5 ⁻)			
		1099.4 5	18.1	2051.31	(4 ⁻)			
		1755.2 5	70	1394.97	(3 ⁻)			
3152.0	3,(2 ⁺ ,4 ⁺)	830.6 5	20.3	2321.69	(2 ⁺)			
		925.6 5	100	2226.09	3,2 ⁻ , (2 ⁺)			
		1695.0 5	22.0	1456.96	4 ⁺			
3156.45	3,(4 ⁺)	835.1 5	18.7	2321.69	(2 ⁺)			
		1105.6 5	62	2051.31	(4 ⁻)			
		1699.2 5	29	1456.96	4 ⁺			
		1761.5 5	100	1394.97	(3 ⁻)			
3172.7	(2,3)	835.9 5	5.7	2337.08	2 ⁺ , (1 ⁻)			
		946.8 5	33	2226.09	3,2 ⁻ , (2 ⁺)			

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Adopted Levels, Gammas (continued)

$\gamma(^{150}\text{Dy})$ (continued)					
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
3172.7	(2,3)	1777.5 5	28	1394.97	(3 ⁻)
		2368.9 5	100	803.64	2 ⁺
3177.24	4 ⁺ , (3 ⁻)	855.6 5	10.9	2321.69	(2 ⁺)
		951.3 5	78	2226.09	3,2 ⁻ , (2 ⁺)
		990.8 5	9.7	2186.83	(5 ⁻)
		1126.4 5	55	2051.31	(4 ⁻)
		1781.8 5	100	1394.97	(3 ⁻)
3183.32	2 ⁻ , 3 ⁻	1132.1 5	10.8	2051.31	(4 ⁻)
		2379.3 5	100	803.64	2 ⁺
3194.6	(0 ⁺ to 3)	2391.0 5	100	803.64	2 ⁺
3197.6	(2,3)	2393.5 5	100	803.64	2 ⁺
3199.03	(3,4)	787.4 5	77	2411.96	4 ⁺ , (2 ⁺ , 3)
		1742.4 5	100	1456.96	4 ⁺
3243.8	(8,9,10)	842.2 2	100	2401.6	8 ⁺
3257.9	(2,3,4)	1862.9 5	100	1394.97	(3 ⁻)
3279.3	2 ⁺ , (1 ⁻)	3279.6 5	100	0	0 ⁺
3292.34	(3)	955.4 5	4.2	2337.08	2 ⁺ , (1 ⁻)
		1066.7 5	9.7	2226.09	3,2 ⁻ , (2 ⁺)
		1240.8 5	25	2051.31	(4 ⁻)
		1897.4 5	31	1394.97	(3 ⁻)
		2488.6 5	100	803.64	2 ⁺
3294.2	(4)	875.1 5	15.7	2418.99	3 ⁻ , 4, 5 ⁻
		1068.5 5	100	2226.09	3,2 ⁻ , (2 ⁺)
		1107.1 5	13.5	2186.83	(5 ⁻)
3304.8	(3,4)	967.7 5	7.1	2337.08	2 ⁺ , (1 ⁻)
		1078.8 5	32	2226.09	3,2 ⁻ , (2 ⁺)
		1253.8 5	18.6	2051.31	(4 ⁻)
		1909.6 5	100	1394.97	(3 ⁻)
3326.5	(0 ⁺ to 3)	1540.1 5	100	1786.37	2 ⁺
3335.4	1,2 ⁺	1005.4 5	53	2330.88	4 ⁺ , 3 ⁺ , (2 ⁺ , 3 ⁻)
		1442.4 5	67	1892.98	(0 ⁺)
		1548.7 5	93	1786.37	2 ⁺
		3335.0 5	100	0	0 ⁺
3339.51	2 ⁺ , (1 ⁻)	904.5 5	4.6	2434.86	1 ⁻ , 2
		1446.8 5	39	1892.98	(0 ⁺)
		2535.6 5	30	803.64	2 ⁺
		3339.6 5	100	0	0 ⁺
3348.9	(3,4,5)	1891.9 5	100	1456.96	4 ⁺
3356.4	(3)	1018.8 5	22.0	2337.08	2 ⁺ , (1 ⁻)
		1129.9 5	29	2226.09	3,2 ⁻ , (2 ⁺)
		1305.6 5	28	2051.31	(4 ⁻)
		1961.8 5	100	1394.97	(3 ⁻)
3366.2	(2,3,4)	845.2 5	100	2521.03	3, 4 ⁺
3378.84	3 ⁻	1921.9 5	100	1456.96	4 ⁺
		1983.3 5	26	1394.97	(3 ⁻)
		2574.6 5	11.4	803.64	2 ⁺
3383.2	(3)	1399.8 5	20.2	1983.18	(2 ⁺)
		1926.6 5	100	1456.96	4 ⁺
		1988.0 5	48	1394.97	(3 ⁻)
		2579.5 5	71	803.64	2 ⁺
3395.0	(3,4,5)	1938.0 5	100	1456.96	4 ⁺
3405.1	(3,4)	1354.1 5	83	2051.31	(4 ⁻)
		1948.3 5	100	1456.96	4 ⁺
		2009.7 5	54	1394.97	(3 ⁻)
3413.0	(3,4,5)	1956.0 5	100	1456.96	4 ⁺
3414.4	(3,4)	1363.1 5	100	2051.31	(4 ⁻)

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Adopted Levels, Gammas (continued) $\gamma(^{150}\text{Dy})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
3414.4	(3,4)	2019.3 5	40	1394.97	(3 ⁻)
3422.7	(1,2,3)	2619.0 5	100	803.64	2 ⁺
3440.7	(1,2,3)	1109.7 5	34	2330.88	4 ⁺ ,3 ⁺ , (2 ⁺ ,3 ⁻)
		2637.1 5	100	803.64	2 ⁺
3441.1	(3,4,5)	1389.8 5	100	2051.31	(4 ⁻)
3458.74	3 ⁻ ,4 ⁺	1127.3 5	6.3	2330.88	4 ⁺ ,3 ⁺ , (2 ⁺ ,3 ⁻)
		1271.4 5	5.7	2186.83	(5 ⁻)
		2001.3 5	13.7	1456.96	4 ⁺
		2064.0 5	17.1	1394.97	(3 ⁻)
		2655.8 5	100	803.64	2 ⁺
3464.6	(2,3,4)	1133.7 5	100	2330.88	4 ⁺ ,3 ⁺ , (2 ⁺ ,3 ⁻)
3465.3	(2,3,4)	2070.3 5	100	1394.97	(3 ⁻)
3467.0	(3,4,5)	2010.0 5	100	1456.96	4 ⁺
3472.0	(11 ⁻)	659.5	100	2812.7	9 ⁻
3473.8	(2,3,4)	2078.8 5	100	1394.97	(3 ⁻)
3480.5	(2,3)	2677.0 5	100	803.64	2 ⁺
3496.1	(0 ⁺ to 3)	2692.4 5	100	803.64	2 ⁺
3497.0	(0 ⁺ ,2,3,4)	1166.3 5	59	2330.88	4 ⁺ ,3 ⁺ , (2 ⁺ ,3 ⁻)
		1270.7 5	100	2226.09	3,2 ⁻ , (2 ⁺)
3500.66	(2,3)	1163.7 5	27	2337.08	2 ⁺ , (1 ⁻)
		1274.4 5	34	2226.09	3,2 ⁻ , (2 ⁺)
		1517.3 5	26	1983.18	(2 ⁺)
		1714.4 5	72	1786.37	2 ⁺
		2105.2 5	100	1394.97	(3 ⁻)
3528.6	3, (4 ⁻)	2070.9 5	100	1456.96	4 ⁺
		2134.2 5	13.2	1394.97	(3 ⁻)
3529.4	(0 ⁺ to 3)	1303.4 5	29	2226.09	3,2 ⁻ , (2 ⁺)
		2725.6 5	100	803.64	2 ⁺
3530.4	(1,2,3)	1199.3 5	87	2330.88	4 ⁺ ,3 ⁺ , (2 ⁺ ,3 ⁻)
		1744.2 5	100	1786.37	2 ⁺
3535.77	(2,3) ⁻	1198.9 5	4.0	2337.08	2 ⁺ , (1 ⁻)
		1214.1 5	5.9	2321.69	(2 ⁺)
		1749.5 5	10.0	1786.37	2 ⁺
		2731.8 5	100	803.64	2 ⁺
3542.3	(0 ⁺ to 3)	1755.9 5	100	1786.37	2 ⁺
3550.2	(2,3,4)	2155.2 5	100	1394.97	(3 ⁻)
3565.0	(2,3,4)	2170.0 5	100	1394.97	(3 ⁻)
3567.51	3 ⁻	637.2 5	7.6	2930.32	4, (3 ⁻)
		722.7 5	19.4	2844.92	1 ⁻ , 2, 3 ⁻
		1342.0 5	39	2226.09	3,2 ⁻ , (2 ⁺)
		1516.0 5	65	2051.31	(4 ⁻)
		1583.7 5	12.5	1983.18	(2 ⁺)
		2110.6 5	100	1456.96	4 ⁺
		2172.6 5	90	1394.97	(3 ⁻)
3577.8	(0 ⁺ to 3)	2774.1 5	100	803.64	2 ⁺
3586.1	(3,4,5)	1534.8 5	100	2051.31	(4 ⁻)
3588.9	(1 ⁻) & (3 ⁻)	1537.3 5	20.0	2051.31	(4 ⁻)
		2194.0 5	100	1394.97	(3 ⁻)
		3589.1 5	45	0	0 ⁺
3600.6	(3,4)	1374.8 5	31	2226.09	3,2 ⁻ , (2 ⁺)
		1549.1 5	100	2051.31	(4 ⁻)
3613.1	(3,4,5)	1561.8 5	100	2051.31	(4 ⁻)
3638.7	(3,4)	1587.4 5	31	2051.31	(4 ⁻)
		2243.6 5	100	1394.97	(3 ⁻)
3654.7	(2,3) ⁻	1428.6 5	6.1	2226.09	3,2 ⁻ , (2 ⁺)
		2851.0 5	100	803.64	2 ⁺

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Adopted Levels, Gammas (continued)

$\gamma(^{150}\text{Dy})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult. #	α &	Comments
3660.3	(3,4)	1608.4 5	48	2051.31	(4 ⁻)			
		2265.8 5	100	1394.97	(3 ⁻)			
3690.58	3 ⁻	760.5 5	10.2	2930.32	4,(3 ⁻)			
		1271.4 5	2.18	2418.99	3 ⁻ ,4,5 ⁻			
		1639.5 5	6.4	2051.31	(4 ⁻)			
		2233.4 5	8.2	1456.96	4 ⁺			
		2295.6 5	18.1	1394.97	(3 ⁻)			
		2886.8 5	100	803.64	2 ⁺			
3693.5		848.6 5	100	2844.92	1 ⁻ ,2,3 ⁻			
3704.26	3 ⁻	724.4 5	2.8	2979.79	2,3			
		760.6 5	18.5	2943.90	4,(3,5 ⁻)			
		848.7 5	0.59	2855.81	3,(2 ⁺ ,4 ⁺)			
		859.6 5	7.4	2844.92	1 ⁻ ,2,3 ⁻			
		1382.7 5	7.2	2321.69	(2 ⁺)			
		1652.6 5	4.6	2051.31	(4 ⁻)			
		1720.9 5	16.3	1983.18	(2 ⁺)			
		2247.2 5	9.6	1456.96	4 ⁺			
		2309.2 5	100	1394.97	(3 ⁻)			
		2900.4 5	39	803.64	2 ⁺			
3724.1	(2,3,4)	2329.1 5	100	1394.97	(3 ⁻)			
3733.19	3 ⁻	1402.2 5	67	2330.88	4 ⁺ ,3 ⁺ , (2 ⁺ ,3 ⁻)			
		1507.1 5	20.4	2226.09	3,2 ⁻ , (2 ⁺)			
		1750.2 5	64	1983.18	(2 ⁺)			
		2276.3 5	58	1456.96	4 ⁺			
		2338.4 5	49	1394.97	(3 ⁻)			
		2929.1 5	100	803.64	2 ⁺			
3743.6	(3,4,5)	2286.6 5	100	1456.96	4 ⁺			
3749.7	(1,2,3)	1009.2 5	19.8	2740.86	3 ⁻ , (2 ⁺)			
		1402.9 5	12.7	2346.62	2 ⁺ , (1 ⁻)			
		1766.4 5	100	1983.18	(2 ⁺)			
3766.6	(2,3,4)	1354.8 5	67	2411.96	4 ⁺ , (2 ⁺ ,3)			
		1540.8 5	33	2226.09	3,2 ⁻ , (2 ⁺)			
		2371.1 5	100	1394.97	(3 ⁻)			
3782.8	(2,3,4)	2387.8 5	100	1394.97	(3 ⁻)			
3789.0	(0 ⁺ to 3)	1452.1 5	61	2337.08	2 ⁺ , (1 ⁻)			
		1562.8 5	100	2226.09	3,2 ⁻ , (2 ⁺)			
3792.6	2 ⁺ , 1 ⁻	1121.3 5	14.0	2671.63	0 ⁺			
		1899.6 5	100	1892.98	(0 ⁺)			
		2006.3 5	74	1786.37	2 ⁺			
		2397.2 5	91	1394.97	(3 ⁻)			
3804.1	2 ⁺	2347.2 5	33	1456.96	4 ⁺			
		2409.3 5	29	1394.97	(3 ⁻)			
		3803.9 5	100	0	0 ⁺			
3812.8	3 ⁻	2355.4 5	100	1456.96	4 ⁺			
		3009.5 5	79	803.64	2 ⁺			
3814.3	(8,9,10)	1412.7 5	100	2401.6	8 ⁺			
3834.3	1 ⁻	1373.8 5	26	2460.94	2 ⁺ , (1 ⁻)			
		1940.8 5	8.0	1892.98	(0 ⁺)			
		3834.2 5	100	0	0 ⁺			
3834.7	12 ⁺	363		3472.0	(11 ⁻)			
		808.9		3025.6	10 ⁺	E2	0.00479 7	E_γ : observed only in $^{114}\text{Cd}(^{40}\text{Ar},4n\gamma)$. $\alpha(\text{K})=0.00399$ 6; $\alpha(\text{L})=0.000625$ 9; $\alpha(\text{M})=0.0001384$ 20;

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

$\gamma(^{150}\text{Dy})$ (continued)						Comments
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	
						$\alpha(\text{N})=3.18\times 10^{-5} \text{ } 5; \alpha(\text{O})=4.54\times 10^{-6} \text{ } 7$ $\alpha(\text{P})=2.29\times 10^{-7} \text{ } 4; \alpha(\text{N}+..)=3.66\times 10^{-5} \text{ } 6$ E_γ : from $^{152}\text{Gd}(\alpha,6n\gamma)$.
3857.86	$1^- \& 3^-$	913.6 5	2.34	2943.90	$4, (3, 5^-)$	
		927.0 5	2.6	2930.32	$4, (3^-)$	
		1117.3 5	2.25	2740.86	$3^-, (2^+)$	
		1161.2 5	2.5	2697.08	$2, 3, 4$	
		1328.8 5	2.5	2529.18	2^+	
		1520.8 5	1.89	2337.08	$2^+, (1^-)$	
		1526.5 5	2.34	2330.88	$4^+, 3^+, (2^+, 3^-)$	
		1535.9 5	7.2	2321.69	(2^+)	
		1631.4 5	3.7	2226.09	$3, 2^-, (2^+)$	
		1807.4 5	1.17	2051.31	(4^-)	
		1874.6 5	10.5	1983.18	(2^+)	
		1965.0 5	7.0	1892.98	(0^+)	
		2071.4 5	9.5	1786.37	2^+	
		2400.9 5	36	1456.96	4^+	
		2462.8 5	100	1394.97	(3^-)	
		3054.5 5	10.5	803.64	2^+	
		3857.8 5	21.1	0	0^+	
3870.0	3^-	926.4 5	100	2943.90	$4, (3, 5^-)$	
		1644.1 5	53	2226.09	$3, 2^-, (2^+)$	
		2412.7 5	83	1456.96	4^+	
		2474.8 5	50	1394.97	(3^-)	
3873.60	$(2, 3)^-$	1028.4 5	14.1	2844.92	$1^-, 2, 3^-$	
		1132.8 5	8.2	2740.86	$3^-, (2^+)$	
		1551.5 5	31	2321.69	(2^+)	
		2087.7 5	29	1786.37	2^+	
		2478.9 5	52	1394.97	(3^-)	
		3069.8 5	100	803.64	2^+	
3892.2	$(3, 2)^-$	2497.2 5	100	1394.97	(3^-)	
3895.7	1^-	1558.7 5	7.5	2337.08	$2^+, (1^-)$	
		3092.0 5	60	803.64	2^+	
		3895.5 5	100	0	0^+	
3900.8	3^-	2443.6 5	100	1456.96	4^+	
		2506.0 5	57	1394.97	(3^-)	
3903.7	$(3, 2)^-$	2508.7 5	100	1394.97	(3^-)	
3916.01	3^-	935.8 5	5.3	2979.79	$2, 3$	
		985.8 5	17.2	2930.32	$4, (3^-)$	
		1689.9 5	17.2	2226.09	$3, 2^-, (2^+)$	
		1864.7 5	18.9	2051.31	(4^-)	
		1932.8 5	27	1983.18	(2^+)	
		2129.7 5	86	1786.37	2^+	
		2459.2 5	100	1456.96	4^+	
		2520.8 5	92	1394.97	(3^-)	
		3112.6 5	99	803.64	2^+	
3924.19	3^-	945.0 5	11.5	2979.79	$2, 3$	
		980.1 5	47	2943.90	$4, (3, 5^-)$	
		1079.6 5	14.8	2844.92	$1^-, 2, 3^-$	
		1577.3 5	7.8	2346.62	$2^+, (1^-)$	
		1602.4 5	65	2321.69	(2^+)	
		1697.8 5	60	2226.09	$3, 2^-, (2^+)$	
		1872.7 5	30	2051.31	(4^-)	
		2138.3 5	43	1786.37	2^+	
		2467.0 5	28	1456.96	4^+	

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued) $\gamma(^{150}\text{Dy})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
3924.19	3^-	2529.0 5	100	1394.97	(3^-)
3927.0	$(2,3)^-$	3123.3 5	100	803.64	2^+
3929.8	$(2,3)^-$	2143.4 5	100	1786.37	2^+
3968.4	3^-	1742.2 5	46	2226.09	$3,2^-, (2^+)$
		2511.4 5	30	1456.96	4^+
		2573.6 5	100	1394.97	(3^-)
3980.9	3^-	1997.5 5	30	1983.18	(2^+)
		2524.2 5	100	1456.96	4^+
4000.3	$(3,2)^-$	1653.3 5	26	2346.62	$2^+, (1^-)$
		2214.3 5	99	1786.37	2^+
		2605.4 5	100	1394.97	(3^-)
4009.4	1^-	2116.4 5	100	1892.98	(0^+)
4014.1	$(8,9,10)$	1612.5 5	100	2401.6	8^+
4045.84	$(2,3)^-$	863.2 5	1.83	3183.32	$2^-, 3^-$
		1246.0 5	0.69	2800.60	$2^+, (1^-)$
		1584.6 5	7.1	2460.94	$2^+, (1^-)$
		1707.8 5	2.8	2337.08	$2^+, (1^-)$
		2650.7 5	26	1394.97	(3^-)
		3242.1 5	100	803.64	2^+
4052.6	$(2,3)^-$	1706.0 5	100	2346.62	$2^+, (1^-)$
4086.90	1^-	1373.6 5	1.86	2713.56	$2^+, (1^-)$
		2103.5 5	1.97	1983.18	(2^+)
		2193.9 5	1.54	1892.98	(0^+)
		3282.9 5	34	803.64	2^+
		4087.1 5	100	0	0^+
4100.00	1^-	1638.9 5	17.9	2460.94	$2^+, (1^-)$
		1753.8 5	17.5	2346.62	$2^+, (1^-)$
		1846.0 5	28	2253.84	$0^+ \text{ to } 2, (3^-)$
		2117.0 5	9.0	1983.18	(2^+)
		2206.3 5	8.5	1892.98	(0^+)
		4100.3 5	100	0	0^+
4102.33	$1^- \& (2,3)^-$	918.5 5	3.4	3183.32	$2^-, 3^-$
		1130.8 5	3.4	2971.97	$2^+, (1^-)$
		1573.0 5	18.6	2529.18	2^+
		1765.2 5	3.9	2337.08	$2^+, (1^-)$
		1785.0 5	12.3	2317.69	$2^+, (1^-)$
		1848.7 5	7.3	2253.84	$0^+ \text{ to } 2, (3^-)$
		2209.3 5	29	1892.98	(0^+)
		2707.0 5	17.3	1394.97	(3^-)
		3298.7 5	97	803.64	2^+
		4102.2 5	100	0	0^+
4110.2		638	100	3472.0	(11^-)
4116.7	$(2,3)^-$	3313.0 5	100	803.64	2^+
4118.9	$(3,2)^-$	1772.4 5	51	2346.62	$2^+, (1^-)$
		2723.7 5	100	1394.97	(3^-)
4129.2	$(2,3)^-$	1798.4 5	16.1	2330.88	$4^+, 3^+, (2^+, 3^-)$
		3325.4 5	100	803.64	2^+
4149.1	$(8,9,10)$	1747.5 5	100	2401.6	8^+
4151.6	$(3,2)^-$	2756.6 5	100	1394.97	(3^-)
4154.1	$(2,3)^-$	1115.1 5	26	3038.67	$2^+, (1^-)$
		1413.3 5	36	2740.86	$3^-, (2^+)$
		2171.1 5	100	1983.18	(2^+)
4162.8	3^-	1841.2 5	22.4	2321.69	(2^+)
		2705.5 5	100	1456.96	4^+
		2767.9 5	67	1394.97	(3^-)
4170.68	$3^- \& 1^-$	1101.8 5	43	3069.36	$1, (2^+)$

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued) $\gamma(^{150}\text{Dy})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult. #	α &	Comments
4170.68	$3^- \& 1^-$	1916.7 5	100	2253.84	0^+ to $2, (3^-)$			
		2278.2 5	40	1892.98	(0^+)			
		2384.1 5	98	1786.37	2^+			
		2713.0 5	43	1456.96	4^+			
4196.6	$(2,3)^-$	3392.9 5	100	803.64	2^+			
4199.1	1^-	4199.0 5	100	0	0^+			
4208.5	$(2,3)^-$	1877.6 5	100	2330.88	$4^+, 3^+, (2^+, 3^-)$			
4216.4	$(3,2)^-$	2821.4 5	100	1394.97	(3^-)			
4220.65	3^-	927.6 5	17.3	3292.34	(3)			
		1479.9 5	73	2740.86	$3^-, (2^+)$			
		1523.9 5	83	2697.08	$2, 3, 4$			
		1808.4 5	98	2411.96	$4^+, (2^+, 3)$			
		1874.5 5	52	2346.62	$2^+, (1^-)$			
		1890.0 5	67	2330.88	$4^+, 3^+, (2^+, 3^-)$			
		1899.0 5	100	2321.69	(2^+)			
		2763.4 5	42	1456.96	4^+			
4224.4	$(3,2)^-$	1907.0 5	36	2317.69	$2^+, (1)$			
		2829.1 5	100	1394.97	(3^-)			
4233.9	1^-	4233.8 5	100	0	0^+			
4253.5	$(3,2)^-$	2270.3 5	50	1983.18	(2^+)			
		2858.5 5	100	1394.97	(3^-)			
4255.5	1^-	4255.4 5	100	0	0^+			
4264.6	$(2,3)^-$	3460.9 5	100	803.64	2^+			
4270.4	$(2,3)^-$	3466.7 5	100	803.64	2^+			
4278.4	3^-	2821.4 5	100	1456.96	4^+			
4293.77	3^-	1972.0 5	4.2	2321.69	(2^+)			
		2507.2 5	22.0	1786.37	2^+			
		2837.0 5	100	1456.96	4^+			
		2898.6 5	9.9	1394.97	(3^-)			
		3490.3 5	19.8	803.64	2^+			
4294.3	$(8,9,10)$	1711.1 5	80 5	2583.2	$(6,7,8)$			
		1892.7 5	100 5	2401.6	8^+			
4304.97	1^-	965.4 5	0.245	3339.51	$2^+, (1^-)$			
		1591.4 5	1.53	2713.56	$2^+, (1^-)$			
		1844.1 5	2.7	2460.94	$2^+, (1^-)$			
		1870.3 5	0.74	2434.86	$1^-, 2$			
		1983.6 5	1.72	2321.69	(2^+)			
		2518.3 5	6.2	1786.37	2^+			
		4304.6 5	100	0	0^+			
4311.4	$(2,3)^-$	1964.8 5	100	2346.62	$2^+, (1^-)$			
4322.0	$(2,3)^-$	2926.7 5	13.3	1394.97	(3^-)			
		3518.7 5	100	803.64	2^+			
4337.3	14^+	227		4110.2				E_γ : observed only in $^{114}\text{Cd}(^{40}\text{Ar}, 4n\gamma)$.
		502.7		3834.7	12^+	E2	0.01494	$\alpha(\text{K})=0.01204$ 17; $\alpha(\text{L})=0.00226$ 4; $\alpha(\text{M})=0.000509$ 8; $\alpha(\text{N})=0.0001165$ 17 $\alpha(\text{O})=1.608 \times 10^{-5}$ 23; $\alpha(\text{P})=6.74 \times 10^{-7}$ 10; $\alpha(\text{N}+..)=0.0001333$ 19 E_γ : from $^{152}\text{Gd}(\alpha, 6n\gamma)$.
4340.2	$(2,3)^-$	2003.7 5	100	2337.08	$2^+, (1^-)$			
		2018.0 5	20.0	2321.69	(2^+)			
4342.4	1^-	4342.3 5	100	0	0^+			
4344.61	$1^- \& (2,3)^-$	816.0 5	5.3	3528.6	$3, (4^-)$			

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Adopted Levels, Gammas (continued) $\gamma(^{150}\text{Dy})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
4344.61	$1^- \& (2,3)^-$	844.3 5	7.8	3500.66	(2,3)
		1005.1 5	2.33	3339.51	$2^+, (1^-)$
		1150.1 5	4.4	3194.6	$(0^+ \text{ to } 3)$
		1242.6 5	0.41	3101.88	$2, (1^-, 3^-)$
		1274.8 5	3.4	3069.36	$1, (2^+)$
		1305.8 5	1.64	3038.67	$2^+, (1^-)$
		1335.0 5	20.5	3010.3	$0^+, 1, 2, (3^-)$
		1365.5 5	9.5	2979.79	2,3
		1373.3 5	11.0	2971.97	$2^+, (1^-)$
		1543.9 5	1.51	2800.60	$2^+, (1^-)$
		1631.1 5	18.6	2713.56	$2^+, (1^-)$
		1673.1 5	36	2671.63	0^+
		1815.4 5	21.1	2529.18	2^+
		1883.4 5	14.4	2460.94	$2^+, (1^-)$
		1909.9 5	11.5	2434.86	$1^-, 2$
		1998.0 5	10.5	2346.62	$2^+, (1^-)$
		2007.6 5	24.1	2337.08	$2^+, (1^-)$
		2022.7 5	15.5	2321.69	(2^+)
		2026.5 5	2.33	2317.69	$2^+, (1)$
		2090.0 5	8.4	2253.84	$0^+ \text{ to } 2, (3^-)$
		2361.4 5	96	1983.18	(2^+)
		2451.9 5	48	1892.98	(0^+)
		3540.8 5	54	803.64	2^+
		4344.0 5	100	0	0^+
4355.1	1^-	4355.0 5	100	0	0^+
4356.72	$(2,3)^-$	1173.8 5	2.27	3183.32	$2^-, 3^-$
		1287.5 5	5.0	3069.36	$1, (2^+)$
		1318.2 5	5.0	3038.67	$2^+, (1^-)$
		1385.2 5	5.4	2971.97	$2^+, (1^-)$
		1643.2 5	9.4	2713.56	$2^+, (1^-)$
		1827.2 5	3.4	2529.18	2^+
		1835.8 5	6.3	2521.03	$3, 4^+$
		1895.8 5	9.9	2460.94	$2^+, (1^-)$
		2010.0 5	9.6	2346.62	$2^+, (1^-)$
		2035.2 5	7.6	2321.69	(2^+)
		2130.4 5	7.8	2226.09	$3, 2^-, (2^+)$
		2305.3 5	3.2	2051.31	(4^-)
		2569.9 5	46	1786.37	2^+
		2961.4 5	37	1394.97	(3^-)
		3552.9 5	100	803.64	2^+
4361.59	1^-	982.8 5	0.93	3378.84	3^-
		1022.1 5	0.27	3339.51	$2^+, (1^-)$
		1177.4 5	0.33	3183.32	$2^-, 3^-$
		1351.0 5	0.66	3010.3	$0^+, 1, 2, (3^-)$
		1689.8 5	2.09	2671.63	0^+
		1927.0 5	1.48	2434.86	$1^-, 2$
		2015.5 5	1.26	2346.62	$2^+, (1^-)$
		2107.7 5	1.81	2253.84	$0^+ \text{ to } 2, (3^-)$
		2379.1 5	1.70	1983.18	(2^+)
		3557.9 5	36	803.64	2^+
		4361.3 5	100	0	0^+
4373.4	$(3)^-$	2051.9 5	28	2321.69	(2^+)
		2321.9 5	66	2051.31	(4^-)
		3569.8 5	100	803.64	2^+
4377.49	1^-	1275.7 5	1.25	3101.88	$2, (1^-, 3^-)$
		1706.2 5	7.5	2671.63	0^+

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Adopted Levels, Gammas (continued) $\gamma(^{150}\text{Dy})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
4377.49	1 ⁻	1916.5 5	10.0	2460.94	2 ⁺ , (1 ⁻)
		3573.5 5	25	803.64	2 ⁺
		4377.3 5	100	0	0 ⁺
4389.7	(2,3) ⁻	1676.5 5	34	2713.56	2 ⁺ , (1 ⁻)
		1928.4 5	29	2460.94	2 ⁺ , (1 ⁻)
		2071.6 5	33	2317.69	2 ⁺ , (1)
		2406.8 5	100	1983.18	(2 ⁺)
4401.05	3 ⁻	899.9 5	1.77	3500.66	(2,3)
		942.0 5	1.94	3458.74	3 ⁻ , 4 ⁺
		1021.6 5	2.47	3378.84	3 ⁻
		1108.8 5	6.0	3292.34	(3)
		1201.8 5	1.94	3199.03	(3,4)
		1250.3 5	1.77	3150.43	4 ₂ (3 ⁻ , 5 ⁻)
		1270.1 5	1.59	3131.40	2,3, (4 ⁺ , 1 ⁻)
		1362.7 5	5.3	3038.67	2 ⁺ , (1 ⁻)
		1395.8 5	13.8	3005.94	4 ⁺ , 3 ⁻
		1421.2 5	6.5	2979.79	2,3
		1445.6 5	3.4	2955.70	3 ⁻ , 4 ⁺
		1457.0 5	12.7	2943.90	4 ₂ (3, 5 ⁻)
		1470.9 5	6.2	2930.32	4 ₂ (3 ⁻)
		1545.1 5	1.24	2855.81	3 ₂ (2 ⁺ , 4 ⁺)
		1556.2 5	6.2	2844.92	1 ⁻ , 2, 3 ⁻
		1600.8 5	1.41	2800.60	2 ⁺ , (1 ⁻)
		1703.7 5	8.0	2697.08	2,3, 4
		1782.5 5	2.47	2618.47	3, 4 ⁺ , (2 ⁺)
		1880.1 5	10.8	2521.03	3, 4 ⁺
		1940.0 5	10.2	2460.94	2 ⁺ , (1 ⁻)
		1982.1 5	1.59	2418.99	3 ⁻ , 4, 5 ⁻
		1989.0 5	52	2411.96	4 ⁺ , (2 ⁺ , 3)
		2070.3 5	34	2330.88	4 ⁺ , 3 ⁺ , (2 ⁺ , 3 ⁻)
		2417.8 5	46	1983.18	(2 ⁺)
		2614.8 5	20.1	1786.37	2 ⁺
		2944.0 5	78	1456.96	4 ⁺
		3597.4 5	100	803.64	2 ⁺
4417.17	(2,3) ⁻	1378.5 5	4.0	3038.67	2 ⁺ , (1 ⁻)
		1444.7 5	5.7	2971.97	2 ⁺ , (1 ⁻)
		1676.6 5	9.7	2740.86	3 ⁻ , (2 ⁺)
		1887.9 5	56	2529.18	2 ⁺
		1956.7 5	4.0	2460.94	2 ⁺ , (1 ⁻)
		2079.9 5	26	2337.08	2 ⁺ , (1 ⁻)
		2099.3 5	33	2317.69	2 ⁺ , (1)
		2190.6 5	23.4	2226.09	3, 2 ⁻ , (2 ⁺)
		2631.2 5	31	1786.37	2 ⁺
		3613.6 5	100	803.64	2 ⁺
4421.62	3 ⁻	821.1 5	3.4	3600.6	(3,4)
		920.9 5	0.43	3500.66	(2,3)
		941.0 5	0.47	3480.5	(2,3)
		962.6 5	0.98	3458.74	3 ⁻ , 4 ⁺
		1042.7 5	2.9	3378.84	3 ⁻
		1222.6 5	0.60	3199.03	(3,4)
		1244.7 5	0.213	3177.24	4 ⁺ , (3 ⁻)
		1265.6 5	0.98	3156.45	3 ₂ (4 ⁺)
		1271.2 5	0.68	3150.43	4 ₂ (3 ⁻ , 5 ⁻)
		1290.1 5	0.72	3131.40	2,3, (4 ⁺ , 1 ⁻)
		1309.4 5	1.66	3112.59	3 ₂ (2 ⁺ , 4 ⁺)
		1353.8 5	0.68	3067.9	2,3, 4, (1 ⁻)

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued) $\gamma(^{150}\text{Dy})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
4421.62	3^-	1415.4 5	1.36	3005.94	$4^+, 3^-$
		1449.0 5	0.34	2971.97	$2^+, (1^-)$
		1466.1 5	1.06	2955.70	$3^-, 4^+$
		1491.1 5	4.4	2930.32	$4, (3^-)$
		1576.4 5	3.5	2844.92	$1^-, 2, 3^-$
		1621.4 5	0.43	2800.60	$2^+, (1^-)$
		1681.2 5	0.64	2740.86	$3^-, (2^+)$
		1707.8 5	6.3	2713.56	$2^+, (1^-)$
		1725.0 5	0.68	2697.08	$2, 3, 4$
		1803.2 5	4.6	2618.47	$3, 4^+, (2^+)$
		1892.3 5	7.0	2529.18	2^+
		1900.4 5	7.2	2521.03	$3, 4^+$
		1961.1 5	0.85	2460.94	$2^+, (1^-)$
		2009.8 5	2.6	2411.96	$4^+, (2^+, 3)$
		2090.6 5	8.0	2330.88	$4^+, 3^+, (2^+, 3^-)$
		2099.8 5	4.4	2321.69	(2^+)
		2195.7 5	5.2	2226.09	$3, 2^-, (2^+)$
		2369.8 5	4.0	2051.31	(4^-)
		2438.3 5	1.79	1983.18	(2^+)
		2964.5 5	22.8	1456.96	4^+
		3026.5 5	100	1394.97	(3^-)
		3617.8 5	10.6	803.64	2^+
4427.13	$(3, 2)^-$	925.8 5	4.0	3500.66	$(2, 3)$
		1048.3 5	3.5	3378.84	3^-
		1087.8 5	1.06	3339.51	$2^+, (1^-)$
		1244.2 5	5.1	3183.32	$2^-, 3^-$
		1270.5 5	7.2	3156.45	$3, (4^+)$
		1358.1 5	2.39	3069.36	$1, (2^+)$
		1421.1 5	10.6	3005.94	$4^+, 3^-$
		1471.4 5	4.5	2955.70	$3^-, 4^+$
		1966.3 5	12.5	2460.94	$2^+, (1^-)$
		2090.3 5	5.3	2337.08	$2^+, (1^-)$
		2201.0 5	29	2226.09	$3, 2^-, (2^+)$
		2443.8 5	34	1983.18	(2^+)
		3032.1 5	100	1394.97	(3^-)
		3623.2 5	6.1	803.64	2^+
4429.1	$(3, 2)^-$	1449.3 5	100	2979.79	$2, 3$
4431.72	1^-	1362.6 5	5.3	3069.36	$1, (2^+)$
		1393.2 5	17.7	3038.67	$2^+, (1^-)$
		1717.8 5	21.2	2713.56	$2^+, (1^-)$
		1760.0 5	39	2671.63	0^+
		1902.7 5	32	2529.18	2^+
		2095.2 5	22.1	2337.08	$2^+, (1^-)$
		2113.8 5	9.7	2317.69	$2^+, (1)$
		2538.2 5	9.7	1892.98	(0^+)
		4431.6 5	100	0	0^+
4439.15	$(2, 3)^-$	1240.6 5	0.93	3199.03	$(3, 4)$
		1459.3 5	3.4	2979.79	$2, 3$
		1594.2 5	4.2	2844.92	$1^-, 2, 3^-$
		1742.3 5	1.55	2697.08	$2, 3, 4$
		1820.4 5	2.02	2618.47	$3, 4^+, (2^+)$
		2108.4 5	3.9	2330.88	$4^+, 3^+, (2^+, 3^-)$
		2117.5 5	3.9	2321.69	(2^+)
		2213.7 5	11.0	2226.09	$3, 2^-, (2^+)$
		3043.6 5	7.9	1394.97	(3^-)
		3634.8 5	100	803.64	2^+

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Adopted Levels, Gammas (continued) $\gamma(^{150}\text{Dy})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
4443.09	(2,3) ⁻	907.5 5	2.38	3535.77	(2,3) ⁻
		942.7 5	3.2	3500.66	(2,3)
		1064.1 5	7.0	3378.84	3 ⁻
		1374.0 5	4.3	3069.36	1,(2 ⁺)
		1404.3 5	6.4	3038.67	2 ⁺ , (1 ⁻)
		1463.5 5	5.7	2979.79	2,3
		1470.6 5	0.95	2971.97	2 ⁺ , (1 ⁻)
		1487.9 5	1.59	2955.70	3 ⁻ , 4 ⁺
		1921.6 5	3.3	2521.03	3, 4 ⁺
		2106.1 5	9.1	2337.08	2 ⁺ , (1 ⁻)
		2121.9 5	8.4	2321.69	(2 ⁺)
		2391.6 5	5.7	2051.31	(4 ⁻)
		2655.8 5	11.1	1786.37	2 ⁺
		3048.0 5	15.4	1394.97	(3 ⁻)
		3639.7 5	100	803.64	2 ⁺
4444.3	1 ⁻	4444.2 5	100	0	0 ⁺
4445.95	3 ⁻	1067.7 5	3.7	3378.84	3 ⁻
		1105.9 5	1.58	3339.51	2 ⁺ , (1 ⁻)
		1167.0 5	0.53	3279.3	2 ⁺ , (1 ⁻)
		1289.8 5	4.5	3156.45	3, (4 ⁺)
		1343.9 5	1.32	3101.88	2, (1 ⁻ , 3 ⁻)
		1589.9 5	0.53	2855.81	3, (2 ⁺ , 4 ⁺)
		1601.0 5	22.4	2844.92	1 ⁻ , 2, 3 ⁻
		1749.1 5	3.4	2697.08	2, 3, 4
		1827.8 5	10.0	2618.47	3, 4 ⁺ , (2 ⁺)
		1916.7 5	12.4	2529.18	2 ⁺
		1924.6 5	22.1	2521.03	3, 4 ⁺
		2027.2 5	2.9	2418.99	3 ⁻ , 4, 5 ⁻
		2033.9 5	65	2411.96	4 ⁺ , (2 ⁺ , 3)
		2219.7 5	6.1	2226.09	3, 2 ⁻ , (2 ⁺)
		2394.5 5	31	2051.31	(4 ⁻)
		2462.2 5	15.5	1983.18	(2 ⁺)
		2659.7 5	27	1786.37	2 ⁺
		2988.9 5	100	1456.96	4 ⁺
4449.63	1 ⁻	913.7 5	0.57	3535.77	(2,3) ⁻
		1110.1 5	0.33	3339.51	2 ⁺ , (1 ⁻)
		1380.9 5	0.43	3069.36	1, (2 ⁺)
		1778.0 5	0.62	2671.63	0 ⁺
		2132.0 5	1.90	2317.69	2 ⁺ , (1)
		3645.5 5	16.4	803.64	2 ⁺
		4449.4 5	100	0	0 ⁺
4460.7	(3) ⁻	2139.1 5	81	2321.69	(2 ⁺)
		2234.7 5	100	2226.09	3, 2 ⁻ , (2 ⁺)
		2409.3 5	98	2051.31	(4 ⁻)
		3656.9 5	88	803.64	2 ⁺
4469.7	(2,3) ⁻	1129.9 5	1.65	3339.51	2 ⁺ , (1 ⁻)
		2132.6 5	26	2337.08	2 ⁺ , (1 ⁻)
		2152.0 5	27	2317.69	2 ⁺ , (1)
		3666.1 5	100	803.64	2 ⁺
4480.6	1 ⁻	1808.7 5	9.5	2671.63	0 ⁺
		2045.8 5	14.8	2434.86	1 ⁻ , 2
		2587.9 5	13.6	1892.98	(0 ⁺)
		4480.3 5	100	0	0 ⁺
4482.64	3 ⁻	1190.9 5	3.4	3292.34	(3)
		1284.6 5	8.8	3197.6	(2,3)
		1298.9 5	8.8	3183.32	2 ⁻ , 3 ⁻

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Adopted Levels, Gammas (continued) $\gamma(^{150}\text{Dy})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
4482.64	3^-	1380.8 5	4.9	3101.88	$2, (1^-, 3^-)$
		1476.6 5	7.3	3005.94	$4^+, 3^-$
		1502.8 5	9.8	2979.79	$2, 3$
		1526.8 5	4.9	2955.70	$3^-, 4^+$
		1741.6 5	16.1	2740.86	$3^-, (2^+)$
		1768.5 5	25	2713.56	$2^+, (1^-)$
		2021.2 5	10.2	2460.94	$2^+, (1^-)$
		2071.4 5	25	2411.96	$4^+, (2^+, 3)$
		2152.1 5	13.7	2330.88	$4^+, 3^+, (2^+, 3^-)$
		2161.2 5	28	2321.69	(2^+)
		2296.6 5	3.9	2186.83	(5^-)
		2499.5 5	44	1983.18	(2^+)
		2695.6 5	100	1786.37	2^+
		3087.9 5	42	1394.97	(3^-)
		3678.8 5	91	803.64	2^+
4486.64	$(3)^-$	1194.6 5	2.6	3292.34	(3)
		1355.7 5	1.70	3131.40	$2, 3, (4^+, 1^-)$
		1374.4 5	10.2	3112.59	$3, (2^+, 4^+)$
		1384.9 5	6.8	3101.88	$2, (1^-, 3^-)$
		1480.6 5	18.7	3005.94	$4^+, 3^-$
		1506.2 5	10.2	2979.79	$2, 3$
		1773.0 5	33	2713.56	$2^+, (1^-)$
		1868.2 5	3.4	2618.47	$3, 4^+, (2^+)$
		1965.4 5	100	2521.03	$3, 4^+$
		2025.0 5	12.3	2460.94	$2^+, (1^-)$
		2140.0 5	12.3	2346.62	$2^+, (1^-)$
		2149.8 5	37	2337.08	$2^+, (1^-)$
		2164.5 5	10.6	2321.69	(2^+)
		2168.5 5	29	2317.69	$2^+, (1)$
		2261.0 5	13.2	2226.09	$3, 2^-, (2^+)$
		2435.7 5	15.3	2051.31	(4^-)
		3683.0 5	21.7	803.64	2^+
4487.9	1^-	1515.9 5	18.2	2971.97	$2^+, (1^-)$
		1643.0 5	64	2844.92	$1^-, 2, 3^-$
		2504.5 5	100	1983.18	(2^+)
		4488.0 5	100	0	0^+
4491.77	3^-	1112.5 5	2.7	3378.84	3^-
		1199.4 5	1.44	3292.34	(3)
		1314.7 5	2.05	3177.24	$4^+, (3^-)$
		1390.3 5	1.03	3101.88	$2, (1^-, 3^-)$
		1485.8 5	16.6	3005.94	$4^+, 3^-$
		1511.3 5	5.1	2979.79	$2, 3$
		1536.0 5	11.9	2955.70	$3^-, 4^+$
		1561.4 5	11.3	2930.32	$4, (3^-)$
		1778.1 5	12.9	2713.56	$2^+, (1^-)$
		1873.4 5	10.9	2618.47	$3, 4^+, (2^+)$
		1962.4 5	13.8	2529.18	2^+
		1971.2 5	19.7	2521.03	$3, 4^+$
		2030.6 5	15.8	2460.94	$2^+, (1^-)$
		2079.4 5	80	2411.96	$4^+, (2^+, 3)$
		2154.4 5	7.6	2337.08	$2^+, (1^-)$
		2161.0 5	34	2330.88	$4^+, 3^+, (2^+, 3^-)$
		2170.6 5	13.6	2321.69	(2^+)
		2265.6 5	16.0	2226.09	$3, 2^-, (2^+)$
		2305.5 5	1.03	2186.83	(5^-)
		2440.2 5	14.4	2051.31	(4^-)

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Adopted Levels, Gammas (continued) $\gamma(^{150}\text{Dy})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
4491.77	3 ⁻	2508.8 5	49	1983.18	(2 ⁺)
		2705.4 5	100	1786.37	2 ⁺
		3034.6 5	47	1456.96	4 ⁺
		3096.3 5	48	1394.97	(3 ⁻)
		3688.7 5	37	803.64	2 ⁺
4495.52	3 ⁻	1116.9 5	2.20	3378.84	3 ⁻
		1203.2 5	0.59	3292.34	(3)
		1216.2 5	0.73	3279.3	2 ⁺ , (1 ⁻)
		1296.9 5	1.03	3199.03	(3,4)
		1383.4 5	4.1	3112.59	3, (2 ⁺ , 4 ⁺)
		1394.1 5	0.88	3101.88	2, (1 ⁻ , 3 ⁻)
		1540.2 5	5.4	2955.70	3 ⁻ , 4 ⁺
		1551.4 5	21.8	2943.90	4, (3, 5 ⁻)
		1565.1 5	11.7	2930.32	4, (3 ⁻)
		1639.8 5	1.61	2855.81	3, (2 ⁺ , 4 ⁺)
		1694.5 5	1.17	2800.60	2 ⁺ , (1 ⁻)
		1754.3 5	3.7	2740.86	3 ⁻ , (2 ⁺)
		1781.6 5	23.3	2713.56	2 ⁺ , (1 ⁻)
		1798.4 5	17.3	2697.08	2, 3, 4
		1877.1 5	9.4	2618.47	3, 4 ⁺ , (2 ⁺)
		1974.5 5	33	2521.03	3, 4 ⁺
		2034.7 5	3.8	2460.94	2 ⁺ , (1 ⁻)
		2083.5 5	51	2411.96	4 ⁺ , (2 ⁺ , 3)
		2148.8 5	17.2	2346.62	2 ⁺ , (1 ⁻)
		2158.5 5	4.3	2337.08	2 ⁺ , (1 ⁻)
		2164.6 5	18.0	2330.88	4 ⁺ , 3 ⁺ , (2 ⁺ , 3 ⁻)
		2269.3 5	41	2226.09	3, 2 ⁻ , (2 ⁺)
		2444.3 5	18.9	2051.31	(4 ⁻)
		2512.3 5	34	1983.18	(2 ⁺)
		3038.4 5	100	1456.96	4 ⁺
		3100.4 5	41	1394.97	(3 ⁻)
		3691.4 5	48	803.64	2 ⁺
4511.69	1 ⁻ & (2,3) ⁻	1473.4 5	1.58	3038.67	2 ⁺ , (1 ⁻)
		1710.3 5	0.63	2800.60	2 ⁺ , (1 ⁻)
		1814.3 5	2.06	2697.08	2, 3, 4
		1983.2 5	4.1	2529.18	2 ⁺
		2189.4 5	4.9	2321.69	(2 ⁺)
		2194.3 5	2.22	2317.69	2 ⁺ , (1)
		2285.7 5	6.0	2226.09	3, 2 ⁻ , (2 ⁺)
		2459.5 5	5.2	2051.31	(4 ⁻)
		2527.8 5	5.2	1983.18	(2 ⁺)
		2725.7 5	8.9	1786.37	2 ⁺
		3708.4 5	100	803.64	2 ⁺
		4512.5 5	2.7	0	0 ⁺
4518.50	1 ⁻	1335.5 5	3.1	3183.32	2 ⁻ , 3 ⁻
		1846.8 5	19.8	2671.63	0 ⁺
		2172.2 5	4.7	2346.62	2 ⁺ , (1 ⁻)
		2196.4 5	9.3	2321.69	(2 ⁺)
		2625.6 5	10.1	1892.98	(0 ⁺)
		4518.1 5	100	0	0 ⁺
4519.5	(3,2) ⁻	1513.2 5	72	3005.94	4 ⁺ , 3 ⁻
		3124.9 5	100	1394.97	(3 ⁻)
4521.68	3 ⁻	1550.2 5	10.9	2971.97	2 ⁺ , (1 ⁻)
		1676.4 5	38	2844.92	1 ⁻ , 2, 3 ⁻
		2001.0 5	38	2521.03	3, 4 ⁺
		2190.8 5	43	2330.88	4 ⁺ , 3 ⁺ , (2 ⁺ , 3 ⁻)

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Adopted Levels, Gammas (continued)

$\gamma(^{150}\text{Dy})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult. #	α &	Comments
4521.68	3^-	2295.6 5	79	2226.09	$3,2^-, (2^+)$			
		2735.3 5	100	1786.37	2^+			
		3064.1 5	48	1456.96	4^+			
4523.53	$(2,3)^-$	1244.4 5	0.32	3279.3	$2^+, (1^-)$			
		1422.0 5	0.32	3101.88	$2, (1^-, 3^-)$			
		1810.4 5	6.1	2713.56	$2^+, (1^-)$			
		2186.3 5	5.6	2337.08	$2^+, (1^-)$			
		2539.8 5	5.0	1983.18	(2^+)			
		3128.6 5	5.3	1394.97	(3^-)			
		3719.5 5	100	803.64	2^+			
4544.47	$1^- \& 3^-$	1802.8 5	7.2	2740.86	$3^-, (2^+)$			
		1925.9 5	18.7	2618.47	$3, 4^+, (2^+)$			
		2132.7 5	21.6	2411.96	$4^+, (2^+, 3)$			
		2223.0 5	5.0	2321.69	(2^+)			
		3740.6 5	100	803.64	2^+			
4546.6	$(3,2)^-$	4545.0 5	80	0	0^+			
		2229.2 5	23.3	2317.69	$2^+, (1)$			
4548.97	$(2,3)^-$	3151.3 5	100	1394.97	(3^-)			
		1447.1 5	10.7	3101.88	$2, (1^-, 3^-)$			
4549.87	$(2,3)^-$	1479.4 5	100	3069.36	$1, (2^+)$			
		1577.1 5	21.4	2971.97	$2^+, (1^-)$			
		1748.6 5	21.4	2800.60	$2^+, (1^-)$			
		2762.4 5	86	1786.37	2^+			
		1809.3 5	34	2740.86	$3^-, (2^+)$			
		1836.2 5	42	2713.56	$2^+, (1^-)$			
		2566.2 5	16.0	1983.18	(2^+)			
4552.14	$(2,3)^-$	3155.1 5	67	1394.97	(3^-)			
		3746.2 5	100	803.64	2^+			
		1482.6 5	10.3	3069.36	$1, (2^+)$			
		1513.5 5	69	3038.67	$2^+, (1^-)$			
		2091.4 5	76	2460.94	$2^+, (1^-)$			
		2205.6 5	93	2346.62	$2^+, (1^-)$			
		2214.6 5	100	2337.08	$2^+, (1^-)$			
4553.00	$(3)^-$	2234.7 5	72	2317.69	$2^+, (1)$			
		1213.4 5	19.2	3339.51	$2^+, (1^-)$			
		1422.1 5	17.3	3131.40	$2, 3, (4^+, 1^-)$			
		1856.2 5	31	2697.08	$2, 3, 4$			
		2222.2 5	62	2330.88	$4^+, 3^+, (2^+, 3^-)$			
		2230.6 5	75	2321.69	(2^+)			
		2327.0 5	100	2226.09	$3, 2^-, (2^+)$			
4566.9	16^+	2501.4 5	96	2051.31	(4^-)			
		229.6	100	4337.3	14^+	E2	0.1500	$\alpha(K)=0.1054$ 15; $\alpha(L)=0.0345$ 5; $\alpha(M)=0.00805$ 12; $\alpha(N)=0.00182$ 3; $\alpha(O)=0.000233$ 4 $\alpha(P)=5.19 \times 10^{-6}$ 8; $\alpha(N+..)=0.00206$ 3 B(E2)(W.u.)=9 2 E_γ : from $^{152}\text{Gd}(\alpha, 6n\gamma)$.
4574.26	3^-	1194.7 5	5.6	3378.84	3^-			
		1375.2 5	1.86	3199.03	$(3, 4)$			
		1397.1 5	2.7	3177.24	$4^+, (3^-)$			
		1461.0 5	3.2	3112.59	$3, (2^+, 4^+)$			
		1473.0 5	1.06	3101.88	$2, (1^-, 3^-)$			
		1594.7 5	6.4	2979.79	$2, 3$			
		1618.7 5	4.5	2955.70	$3^-, 4^+$			
		1644.1 5	21.8	2930.32	$4, (3^-)$			
		1774.1 5	2.7	2800.60	$2^+, (1^-)$			

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued) $\gamma(^{150}\text{Dy})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
4574.26	3^-	1860.6 5	37	2713.56	$2^+, (1^-)$
		1877.1 5	26	2697.08	2,3,4
		1955.9 5	27	2618.47	$3,4^+, (2^+)$
		2044.8 5	9.0	2529.18	2^+
		2053.2 5	7.2	2521.03	$3,4^+$
		2227.6 5	20.7	2346.62	$2^+, (1^-)$
		2243.4 5	44	2330.88	$4^+, 3^+, (2^+, 3^-)$
		2252.8 5	19.9	2321.69	(2^+)
		2522.8 5	27	2051.31	(4^-)
		2591.1 5	15.7	1983.18	(2^+)
		2787.7 5	38	1786.37	2^+
		3117.2 5	100	1456.96	4^+
		3179.3 5	66	1394.97	(3^-)
4576.5	$(3)^-$	2349.7 5	58	2226.09	$3,2^-, (2^+)$
		2525.5 5	91	2051.31	(4^-)
		3773.1 5	100	803.64	2^+
4584.4	1^-	4584.3 5	100	0	0^+
4594.7	1^-	2701.7 5	100	1892.98	(0^+)
4597.24	$(2,3)^-$	1591.2 5	24.0	3005.94	$4^+, 3^-$
		1796.6 5	11.6	2800.60	$2^+, (1^-)$
		1883.8 5	39	2713.56	$2^+, (1^-)$
		2076.9 5	19.9	2521.03	$3,4^+$
		2275.5 5	26	2321.69	(2^+)
		2370.7 5	39	2226.09	$3,2^-, (2^+)$
		2613.7 5	100	1983.18	(2^+)
		2810.7 5	94	1786.37	2^+
		3793.8 5	49	803.64	2^+
4601.9	3^-	1263.0 5	19.0	3339.51	$2^+, (1^-)$
		1904.6 5	43	2697.08	2,3,4
		3144.6 5	100	1456.96	4^+
4605.86	1^-	2170.9 5	37	2434.86	$1^-, 2$
		2268.8 5	59	2337.08	$2^+, (1^-)$
		2284.0 5	26	2321.69	(2^+)
		2288.0 5	28	2317.69	$2^+, (1)$
		2623.0 5	16.3	1983.18	(2^+)
		2712.7 5	11.6	1892.98	(0^+)
		2820.0 5	22.4	1786.37	2^+
		4605.4 5	100	0	0^+
4607.7	$(3,2)^-$	3212.7 5	100	1394.97	(3^-)
4610.1	3^-	3152.8 5	100	1456.96	4^+
		3215.3 5	76	1394.97	(3^-)
4640.5	$(2,3)^-$	1927.0 5	2.9	2713.56	$2^+, (1^-)$
		3836.8 5	100	803.64	2^+
4649.0	$(2,3)^-$	1936.1 5	47	2713.56	$2^+, (1^-)$
		2862.0 5	100	1786.37	2^+
4653.0	1^-	4652.9 5	100	0	0^+
4660.26	$(2,3)^-$	1476.6 5	12.1	3183.32	$2^-, 3^-$
		1859.4 5	19.0	2800.60	$2^+, (1^-)$
		2199.7 5	31	2460.94	$2^+, (1^-)$
		2323.1 5	22.4	2337.08	$2^+, (1^-)$
		3856.8 5	100	803.64	2^+
4665.93	$(2,3)^-$	1483.2 5	6.1	3183.32	$2^-, 3^-$
		1595.7 5	6.1	3069.36	$1, (2^+)$
		1626.8 5	11.0	3038.67	$2^+, (1^-)$
		2137.0 5	35	2529.18	2^+
		3862.7 5	100	803.64	2^+

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

$\gamma(^{150}\text{Dy})$ (continued)					
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
4668.1	$(2,3)^-$	2321.5 5	100	2346.62	$2^+, (1^-)$
4694.97	3^-	1738.6 5	8.7	2955.70	$3^-, 4^+$
		1954.5 5	20.4	2740.86	$3^-, (2^+)$
		1997.1 5	12.6	2697.08	$2, 3, 4$
		2283.3 5	21.4	2411.96	$4^+, (2^+, 3)$
		2712.3 5	15.5	1983.18	(2^+)
		2908.8 5	100	1786.37	2^+
		3237.9 5	26	1456.96	4^+
4698.11	$1^- \& 3^-$	1585.0 5	18.7	3112.59	$3, (2^+, 4^+)$
		1629.3 5	5.5	3069.36	$1, (2^+)$
		1743.0 5	9.9	2955.70	$3^-, 4^+$
		1956.8 5	18.7	2740.86	$3^-, (2^+)$
		2351.4 5	14.3	2346.62	$2^+, (1^-)$
		2366.8 5	54	2330.88	$4^+, 3^+, (2^+, 3^-)$
		3241.2 5	42	1456.96	4^+
		4698.2 5	100	0	0^+
4706.15	$(2,3)^-$	1225.8 5	11.7	3480.5	$(2,3)$
		1593.4 5	3.2	3112.59	$3, (2^+, 4^+)$
		1603.5 5	1.21	3101.88	$2, (1^-, 3^-)$
		1636.0 5	1.61	3069.36	$1, (2^+)$
		1762.7 5	21.0	2943.90	$4, (3, 5^-)$
		1776.5 5	4.4	2930.32	$4, (3^-)$
		1850.0 5	2.42	2855.81	$3, (2^+, 4^+)$
		1965.7 5	6.9	2740.86	$3^-, (2^+)$
		2009.4 5	14.1	2697.08	$2, 3, 4$
		2359.7 5	6.5	2346.62	$2^+, (1^-)$
		2375.4 5	56	2330.88	$4^+, 3^+, (2^+, 3^-)$
		2479.3 5	9.7	2226.09	$3, 2^-, (2^+)$
		2723.2 5	5.6	1983.18	(2^+)
		2919.5 5	17.3	1786.37	2^+
		3311.2 5	50	1394.97	(3^-)
		3902.7 5	100	803.64	2^+
4712.3	1^-	4712.2 5	100	0	0^+
4718.3	$(3,2)^-$	2387.1 5	58	2330.88	$4^+, 3^+, (2^+, 3^-)$
		3323.5 5	100	1394.97	(3^-)
4733.47	$(2,3)^-$	1394.5 5	1.88	3339.51	$2^+, (1^-)$
		1932.3 5	1.88	2800.60	$2^+, (1^-)$
		2507.6 5	35	2226.09	$3, 2^-, (2^+)$
		2750.2 5	48	1983.18	(2^+)
		3929.6 5	100	803.64	2^+
4743.77	1^-	1641.4 5	2.31	3101.88	$2, (1^-, 3^-)$
		1674.0 5	2.31	3069.36	$1, (2^+)$
		2030.7 5	8.7	2713.56	$2^+, (1^-)$
		2851.0 5	3.5	1892.98	(0^+)
		4743.8 5	100	0	0^+
4753.98	3^-	1652.0 5	2.8	3101.88	$2, (1^-, 3^-)$
		2967.8 5	100	1786.37	2^+
		3297.3 5	81	1456.96	4^+
		3359.0 5	21.1	1394.97	(3^-)
		3949.8 5	29	803.64	2^+
4757.8	$(2,3)^-$	1626.1 5	7.4	3131.40	$2, 3, (4^+, 1^-)$
		3362.5 5	26	1394.97	(3^-)
		3954.6 5	100	803.64	2^+
4759.4	3^-	1657.0 5	1.96	3101.88	$2, (1^-, 3^-)$
		2776.2 5	10.8	1983.18	(2^+)
		2973.0 5	40	1786.37	2^+

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Adopted Levels, Gammas (continued) $\gamma(^{150}\text{Dy})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
4759.4	3^-	3302.8 5	100	1456.96	4^+
4766.59	$(2,3)^-$	1426.6 5	8.7	3339.51	$2^+, (1^-)$
		1966.2 5	8.7	2800.60	$2^+, (1^-)$
		2419.5 5	91	2346.62	$2^+, (1^-)$
		2429.1 5	61	2337.08	$2^+, (1^-)$
		2449.6 5	65	2317.69	$2^+, (1)$
		2783.9 5	87	1983.18	(2^+)
		2980.0 5	100	1786.37	2^+
4769.7	$(3,2)^-$	1657.1 5	100	3112.59	$3, (2^+, 4^+)$
4785.2	$(2,3)^-$	1716.0 5	9.7	3069.36	$1, (2^+)$
		2801.8 5	87	1983.18	(2^+)
		2998.8 5	100	1786.37	2^+
4789.4	3^-	3332.8 5	100	1456.96	4^+
		3985.4 5	26	803.64	2^+
4794.1	1^-	4794.0 5	100	0	0^+
4799.3	$(2,3)^-$	2816.1 5	100	1983.18	(2^+)
4803.8	$(2,3)^-$	2578.2 5	21.1	2226.09	$3, 2^-, (2^+)$
		2820.0 5	17.3	1983.18	(2^+)
		3408.8 5	46	1394.97	(3^-)
		4000.2 5	100	803.64	2^+
4808.15	3^-	1706.0 5	2.04	3101.88	$2, (1^-, 3^-)$
		2461.7 5	22.4	2346.62	$2^+, (1^-)$
		2582.0 5	41	2226.09	$3, 2^-, (2^+)$
		2825.7 5	12.2	1983.18	(2^+)
		3350.7 5	24.5	1456.96	4^+
		3412.9 5	76	1394.97	(3^-)
		4004.5 5	100	803.64	2^+
4809.2	1^-	4809.1 5	100	0	0^+
4835.10	$(2,3)^-$	1651.2 5	3.1	3183.32	$2^-, 3^-$
		1879.6 5	3.5	2955.70	$3^-, 4^+$
		2035.0 5	1.15	2800.60	$2^+, (1^-)$
		2514.0 5	10.0	2321.69	(2^+)
		2851.5 5	50	1983.18	(2^+)
		3440.1 5	12.3	1394.97	(3^-)
		4031.0 5	100	803.64	2^+
4849.6	3^-	3392.3 5	43	1456.96	4^+
		3454.8 5	100	1394.97	(3^-)
4870.3	$(2,3)^-$	4066.6 5	100	803.64	2^+
4872.8	$(2,3)^-$	2175.9 5	42	2697.08	$2, 3, 4$
		2541.6 5	100	2330.88	$4^+, 3^+, (2^+, 3^-)$
4881.6	3^-	3424.8 5	71	1456.96	4^+
		4077.7 5	100	803.64	2^+
4883.2	1^-	4883.1 5	100	0	0^+
4901.2	$(2,3)^-$	2554.5 5	11.8	2346.62	$2^+, (1^-)$
		2564.2 5	31	2337.08	$2^+, (1^-)$
		2918.5 5	100	1983.18	(2^+)
		3114.2 5	81	1786.37	2^+
4909.7	$(2,3)^-$	4106.0 5	100	803.64	2^+
4937.7	$(2,3)^-$	4134.0 5	100	803.64	2^+
4949.4	3^-	2761.9 5	6.8	2186.83	(5^-)
		2966.2 5	100	1983.18	(2^+)
		3492.9 5	16.9	1456.96	4^+
		4145.7 5	25	803.64	2^+
4956.4	3^-	3499.4 5	100	1456.96	4^+
4972.8	$(2,3)^-$	3186.4 5	100	1786.37	2^+
4995.5	$(2,3)^-$	2298.6 5	8.5	2697.08	$2, 3, 4$

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Adopted Levels, Gammas (continued)

$\gamma(^{150}\text{Dy})$ (continued)							
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult. [#]	α &
4995.5	(2,3) ⁻	2658.4 5	8.5	2337.08	2 ⁺ , (1 ⁻)		
		4191.5 5	100	803.64	2 ⁺		
5000.7	1 ⁻	5000.6 5	100	0	0 ⁺		
5005.9	(2,3) ⁻	4202.2 5	100	803.64	2 ⁺		
5010.6	(2,3) ⁻	3026.8 5	100	1983.18	(2 ⁺)		
		4207.5 5	79	803.64	2 ⁺		
5031.6	1 ⁻	5031.5 5	100	0	0 ⁺		
5032.8	(2,3) ⁻	3049.6 5	100	1983.18	(2 ⁺)		
5035.3	(2,3) ⁻	4231.6 5	100	803.64	2 ⁺		
5067.7	(2,3) ⁻	4264.0 5	100	803.64	2 ⁺		
5071.1	18 ⁺	504.3	100	4566.9	16 ⁺	E2	0.01482
							$\alpha(\text{K})=0.01194$ 17; $\alpha(\text{L})=0.00224$ 4; $\alpha(\text{M})=0.000504$ 7; $\alpha(\text{N})=0.0001154$ 17 $\alpha(\text{O})=1.593\times 10^{-5}$ 23; $\alpha(\text{P})=6.69\times 10^{-7}$ 10; $\alpha(\text{N}+..)=0.0001320$ 19 E_γ : from $^{152}\text{Gd}(\alpha, 6n\gamma)$.
5076.8	(2,3) ⁻	4273.1 5	100	803.64	2 ⁺		
5088.6	3 ⁻	3631.7 5	88	1456.96	4 ⁺		
		3693.7 5	100	1394.97	(3 ⁻)		
		4284.7 5	88	803.64	2 ⁺		
5098.5	(2,3) ⁻	4294.8 5	100	803.64	2 ⁺		
5106.3	(2,3) ⁻	4302.6 5	100	803.64	2 ⁺		
5110.7	(2,3) ⁻	4307.0 5	100	803.64	2 ⁺		
5129.0	(2,3) ⁻	4325.3 5	100	803.64	2 ⁺		
5142.8	(3,2) ⁻	2445.5 5	36	2697.08	2,3,4		
		3748.0 5	100	1394.97	(3 ⁻)		
5165.6	3 ⁻	3709.0 5	61	1456.96	4 ⁺		
		3770.1 5	100	1394.97	(3 ⁻)		
5176.2	(2,3) ⁻	4372.5 5	100	803.64	2 ⁺		
5181.1	(2,3) ⁻	4377.4 5	100	803.64	2 ⁺		
5193.7	(2,3) ⁻	4390.0 5	100	803.64	2 ⁺		
5207.7	(2,3) ⁻	4404.0 5	100	803.64	2 ⁺		
5211.3	(2,3) ⁻	4407.6 5	100	803.64	2 ⁺		
5218.7	(2,3) ⁻	3823.0 5	54	1394.97	(3 ⁻)		
		4415.6 5	100	803.64	2 ⁺		
5225.0	(3,2) ⁻	3830.0 5	100	1394.97	(3 ⁻)		
5246.7	(2,3) ⁻	4443.0 5	100	803.64	2 ⁺		
5250.4	3 ⁻	3792.7 5	21.4	1456.96	4 ⁺		
		3855.7 5	46	1394.97	(3 ⁻)		
		4447.0 5	100	803.64	2 ⁺		
5251.6	(3,2) ⁻	3856.6 5	100	1394.97	(3 ⁻)		
5254.6	3 ⁻	3798.0 5	43	1456.96	4 ⁺		
		3859.9 5	36	1394.97	(3 ⁻)		
		4450.2 5	100	803.64	2 ⁺		
5296.1	3 ⁻	3839.0 5	50	1456.96	4 ⁺		
		4492.5 5	100	803.64	2 ⁺		
5327.5	(2,3) ⁻	4523.8 5	100	803.64	2 ⁺		
5334.1	(2,3) ⁻	4530.4 5	100	803.64	2 ⁺		
5353.2	3 ⁻	3896.2 5	100	1456.96	4 ⁺		
5359.6	1 ⁻	3466.6 5	100	1892.98	(0 ⁺)		
5414.7	(2,3) ⁻	4611.0 5	100	803.64	2 ⁺		
5415.9	17 ⁽⁺⁾	849.0	100	4566.9	16 ⁺	(M1)	0.00790 11
							$\alpha(\text{K})=0.00671$ 10; $\alpha(\text{L})=0.000933$ 13; $\alpha(\text{M})=0.000204$ 3; $\alpha(\text{N})=4.72\times 10^{-5}$ 7; $\alpha(\text{O})=6.94\times 10^{-6}$ 10 $\alpha(\text{P})=4.06\times 10^{-7}$ 6; $\alpha(\text{N}+..)=5.45\times 10^{-5}$ 8 E_γ : from $^{152}\text{Gd}(\alpha, 6n\gamma)$.

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Adopted Levels, Gammas (continued)

$\gamma(^{150}\text{Dy})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult. #	$\alpha\&$	Comments
5450.8	(2,3) ⁻	4647.1 5	100	803.64	2 ⁺			
5613.3	18 ⁽⁻⁾	197.3	100	5415.9	17 ⁽⁺⁾			E_γ : from $^{152}\text{Gd}(\alpha,6n\gamma)$.
5661.9	(2,3) ⁻	4858.2 5	100	803.64	2 ⁺			
5725.5	(2,3) ⁻	4921.8 5	100	803.64	2 ⁺			
5813.1	19 ⁻	200.2		5613.3	18 ⁽⁻⁾			E_γ : from $^{152}\text{Gd}(\alpha,6n\gamma)$; observed only in $^{152}\text{Gd}(\alpha,6n\gamma)$ and $^{114}\text{Cd}(^{40}\text{Ar},4n\gamma)$.
		742.0		5071.1	18 ⁺	(E1)	0.00222 4	E_γ : from $^{152}\text{Gd}(\alpha,6n\gamma)$.
5880.4	(2,3) ⁻	5076.7 5	100	803.64	2 ⁺			
5887.9	(2,3) ⁻	5084.2 5	100	803.64	2 ⁺			
6018.6	20 ⁻	205.9		5813.1	19 ⁻	M1	0.313	$\alpha(\text{K})=0.264$ 4; $\alpha(\text{L})=0.0384$ 6; $\alpha(\text{M})=0.00843$ 12; $\alpha(\text{N})=0.00195$ 3; $\alpha(\text{O})=0.000286$ 4 $\alpha(\text{P})=1.639\times 10^{-5}$ 23; $\alpha(\text{N}+..)=0.00225$ 4 E_γ : from $^{152}\text{Gd}(\alpha,6n\gamma)$.
		405		5613.3	18 ⁽⁻⁾			E_γ : observed only in $^{114}\text{Cd}(^{40}\text{Ar},4n\gamma)$.
6394.7	21 ⁻	376.3	100	6018.6	20 ⁻	M1	0.0620	$\alpha(\text{K})=0.0524$ 8; $\alpha(\text{L})=0.00750$ 11; $\alpha(\text{M})=0.001642$ 23; $\alpha(\text{N})=0.000380$ 6; $\alpha(\text{O})=5.57\times 10^{-5}$ 8 $\alpha(\text{P})=3.22\times 10^{-6}$ 5; $\alpha(\text{N}+..)=0.000439$ 7 E_γ : from $^{152}\text{Gd}(\alpha,6n\gamma)$.
6815.6		797.0	100	6018.6	20 ⁻			
7000.4	22 ⁽⁻⁾	185		6815.6				
		981.4		6018.6	20 ⁻			
7047.3		1028.7	100	6018.6	20 ⁻			
7102.3	22 ⁺	707.0	100	6394.7	21 ⁻			
7288.7		473		6815.6				
		894		6394.7	21 ⁻			
7372.5?		977	100	6394.7	21 ⁻			
7473.7	22 ⁻	185		7288.7				E_γ : observed only in $^{114}\text{Cd}(^{40}\text{Ar},4n\gamma)$.
		473		7000.4	22 ⁽⁻⁾			E_γ : observed only in $^{114}\text{Cd}(^{40}\text{Ar},4n\gamma)$.
		1455.2		6018.6	20 ⁻	(Q) @		E_γ : from $^{114}\text{Cd}(^{40}\text{Ar},4n\gamma)$.
7650.3		1255.3	100	6394.7	21 ⁻			
7725.8?		353	100	7372.5?				
7741.0	23 ⁻	267		7473.7	22 ⁻	(M1,E2)		E_γ : from $^{114}\text{Cd}(^{40}\text{Ar},4n\gamma)$.
		452		7288.7				E_γ : observed only in $^{114}\text{Cd}(^{40}\text{Ar},4n\gamma)$.
		1346.3		6394.7	21 ⁻	(Q) @		E_γ : from $^{114}\text{Cd}(^{40}\text{Ar},4n\gamma)$.
7755.1?		382	100	7372.5?				
7955.2		853.3	100	7102.3	22 ⁺			
8008.2	24 ⁻	253 [†]		7755.1?				E_γ : observed only in $^{124}\text{Sn}(^{32}\text{S},6n\gamma)$.
		267		7741.0	23 ⁻	(D) @		E_γ : from $^{114}\text{Cd}(^{40}\text{Ar},4n\gamma)$.
		534.8 [‡]		7473.7	22 ⁻			E_γ : observed only in $^{114}\text{Cd}(^{40}\text{Ar},4n\gamma)$.
8123?		397	100	7725.8?				
8303.2		561.6		7741.0	23 ⁻			
		653.3		7650.3				
8404.9?		650		7755.1?				
		679		7725.8?				
8425.1		1322.8		7102.3	22 ⁺			
		2030.9		6394.7	21 ⁻			
8445.1		489.1		7955.2				
		1343.5		7102.3	22 ⁺			
8481.2		2087.0	100	6394.7	21 ⁻			
8544.8		590.5		7955.2				
		804		7741.0	23 ⁻			
		1440		7102.3	22 ⁺			
8610.8	25 ⁻	602.6		8008.2	24 ⁻			E_γ : from $^{114}\text{Cd}(^{40}\text{Ar},4n\gamma)$.

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Adopted Levels, Gammas (continued)

$\gamma(^{150}\text{Dy})$ (continued)						
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Comments
8610.8	25 ⁻	855		7755.1?		E_γ : observed only in $^{124}\text{Sn}(^{32}\text{S},6n\gamma)$. E_γ : observed only in $^{114}\text{Cd}(^{40}\text{Ar},4n\gamma)$.
		869.7		7741.0	23 ⁻	
8729.4		2334.6	100	6394.7	21 ⁻	
8763.8		809	100	7955.2		
8777.8		769.7	100	8008.2	24 ⁻	
8828.9?		1074		7755.1?		
		1103		7725.8?		
8843.6	(23 ⁻)	1369.9		7473.7	22 ⁻	
		2449.1		6394.7	21 ⁻	
8868.1		860.0	100	8008.2	24 ⁻	
8904.7		2510.2	100	6394.7	21 ⁻	
8921.2	(23 ⁻)	1270.1		7650.3		E_γ : observed only in $^{114}\text{Cd}(^{40}\text{Ar},4n\gamma)$. E_γ : from $^{114}\text{Cd}(^{40}\text{Ar},4n\gamma)$.
		2527.0		6394.7	21 ⁻	
8951.6		943.2	100	8008.2	24 ⁻	
9063.4		195		8868.1		
		452.1		8610.8	25 ⁻	
9106.8	26 ⁺	155		8951.6		E_γ : observed only in $^{114}\text{Cd}(^{40}\text{Ar},4n\gamma)$. E_γ : observed only in $^{114}\text{Cd}(^{40}\text{Ar},4n\gamma)$. E_γ : observed only in $^{114}\text{Cd}(^{40}\text{Ar},4n\gamma)$. E_γ : from $^{114}\text{Cd}(^{40}\text{Ar},4n\gamma)$.
		239		8868.1		
		329		8777.8		
		495.6		8610.8	25 ⁻	
9274.5	(25 ⁻)	353		8921.2	(23 ⁻)	
		370		8904.7		
		431		8843.6	(23 ⁻)	
		511		8763.8		
		545		8729.4		
		728		8544.8		
		793.7		8481.2		
		829.2		8445.1		
		850		8425.1		
		971.1		8303.2		
		1533.9		7741.0	23 ⁻	
		2173.2		7102.3	22 ⁺	
9305.9	(27 ⁺)	199	100	9106.8	26 ⁺	
9398.9?		125 ^a	100	9274.5	(25 ⁻)	
9896.1	(26 ⁻)	621.8	100	9274.5	(25 ⁻)	E_γ : from $^{114}\text{Cd}(^{40}\text{Ar},4n\gamma)$.
9974.8	(27 ⁻)	79		9896.1	(26 ⁻)	
		700.4		9274.5	(25 ⁻)	
		910.7		9063.4		
10238.6	(29 ⁻)	932.7	100	9305.9	(27 ⁺)	
10327.3	(29 ⁻)	352		9974.8	(27 ⁻)	
		929.1 ^a		9398.9?		
		1021.4		9305.9	(27 ⁺)	
10889.2		561.6		10327.3	(29 ⁻)	
		650.5		10238.6	(29 ⁻)	
11005.9	(30 ⁻)	678.5	100	10327.3	(29 ⁻)	
11218.4	(31 ⁻)	212		11005.9	(30 ⁻)	
		891.1		10327.3	(29 ⁻)	
11304.8	(31 ⁻)	415 ^a		10889.2		
		977.8		10327.3	(29 ⁻)	
11392.3		503.3	100	10889.2		
11701.8	(32 ⁻)	397		11304.8	(31 ⁻)	
		483		11218.4	(31 ⁻)	
		696.3		11005.9	(30 ⁻)	
11803		411	100	11392.3		
12317		924.3	100	11392.3		
12352.5	(33 ⁻)	650.5		11701.8	(32 ⁻)	

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

$\gamma(^{150}\text{Dy})$ (continued)						Comments
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	
12352.5	(33 ⁻)	1047.6		11304.8	(31 ⁻)	
12498.2	(33)	796.2	100	11701.8	(32 ⁻)	
12735.7	(34 ⁺)	383		12352.5	(33 ⁻)	
		419.1		12317		
		932.7		11803		
12776.4	(34 ⁻)	278		12498.2	(33)	
		1074.8		11701.8	(32 ⁻)	
12927	(35)	151	100	12776.4	(34 ⁻)	
13598	(36)	670.4	100	12927	(35)	
13803	(36 ⁺)	1067.2	100	12735.7	(34 ⁺)	E_γ : from $^{114}\text{Cd}(^{40}\text{Ar}, 4n\gamma)$.
14056	(37)	253		13803	(36 ⁺)	
		458		13598	(36)	
14992	(39)	936.4	100	14056	(37)	
15947		954.7	100	14992	(39)	
16291		1299	100	14992	(39)	

[†] From ($^{32}\text{S}, 6n\gamma$).

[‡] From ($^{40}\text{Ar}, 4n\gamma$).

[#] Multipolarities are from ($\alpha, 6n\gamma$) ([1980LuZV](#), [1979LuZZ](#)), unless otherwise noted.

[@] From $^{124}\text{Sn}(^{32}\text{S}, 6n\gamma)$.

[&] Total theoretical internal conversion coefficients, calculated using the BrIcc code ([2008Ki07](#)) with Frozen orbital approximation based on γ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

^a Placement of transition in the level scheme is uncertain.

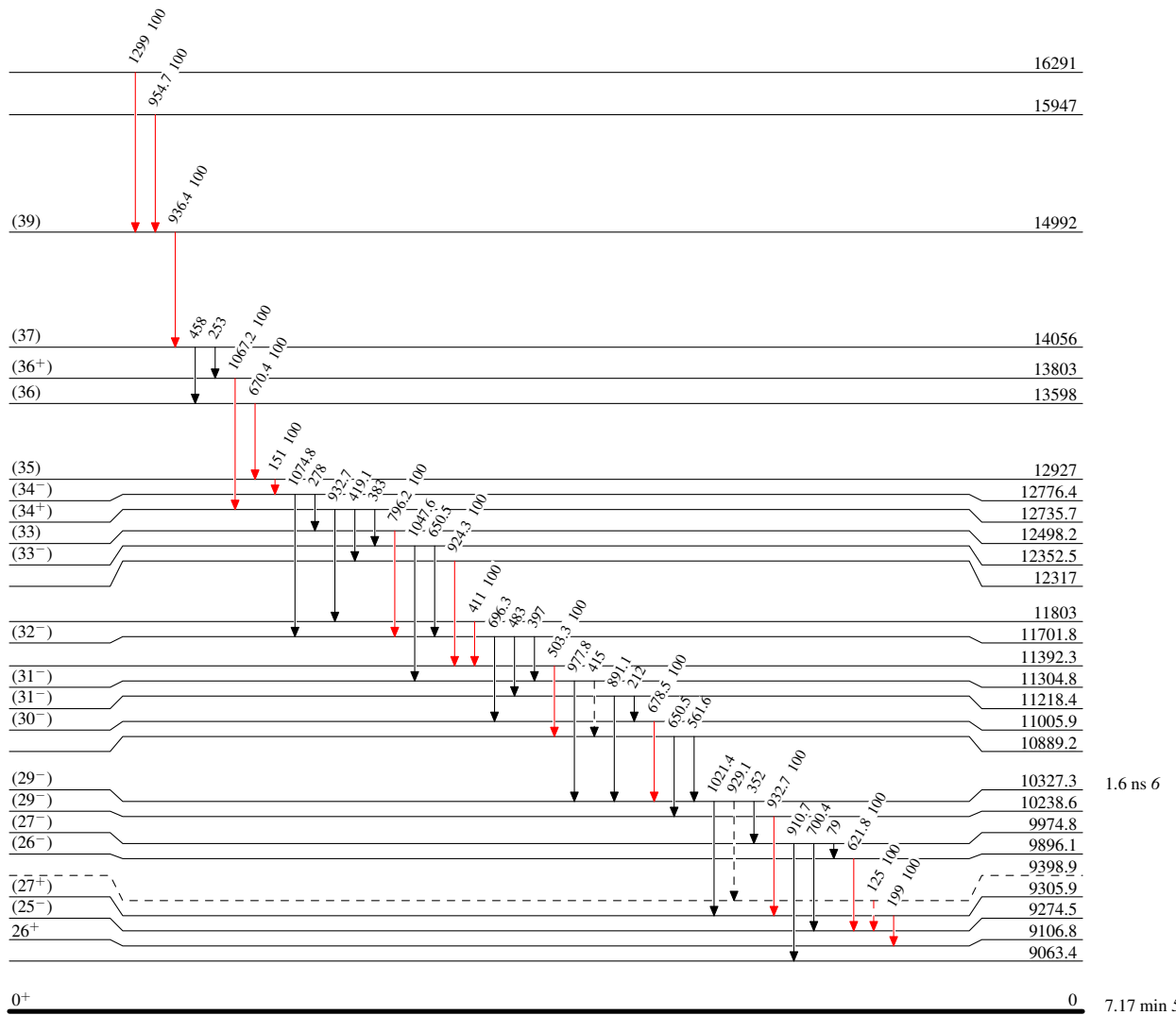
Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Type not specified

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

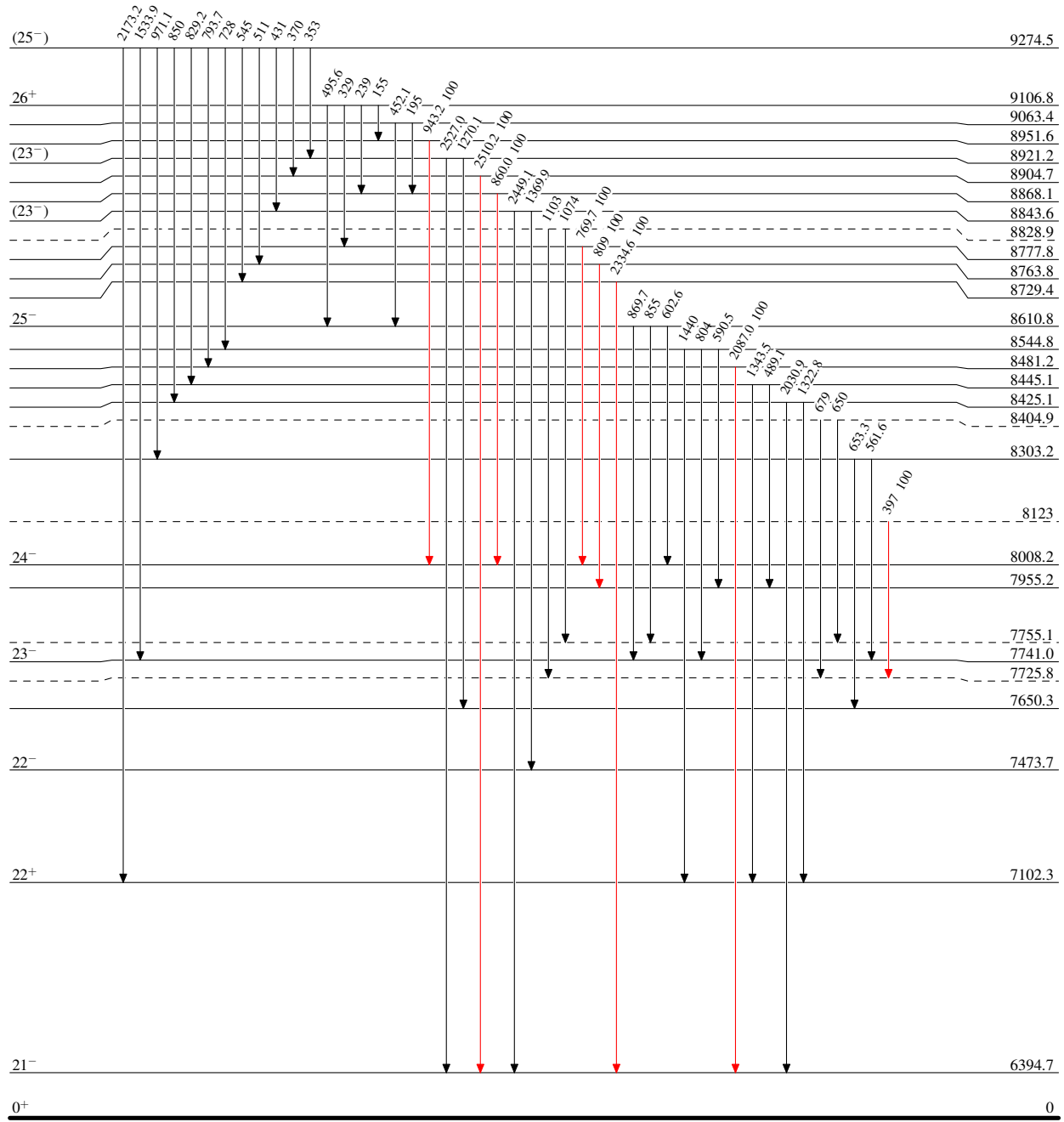


Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Type not specified

Legend

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

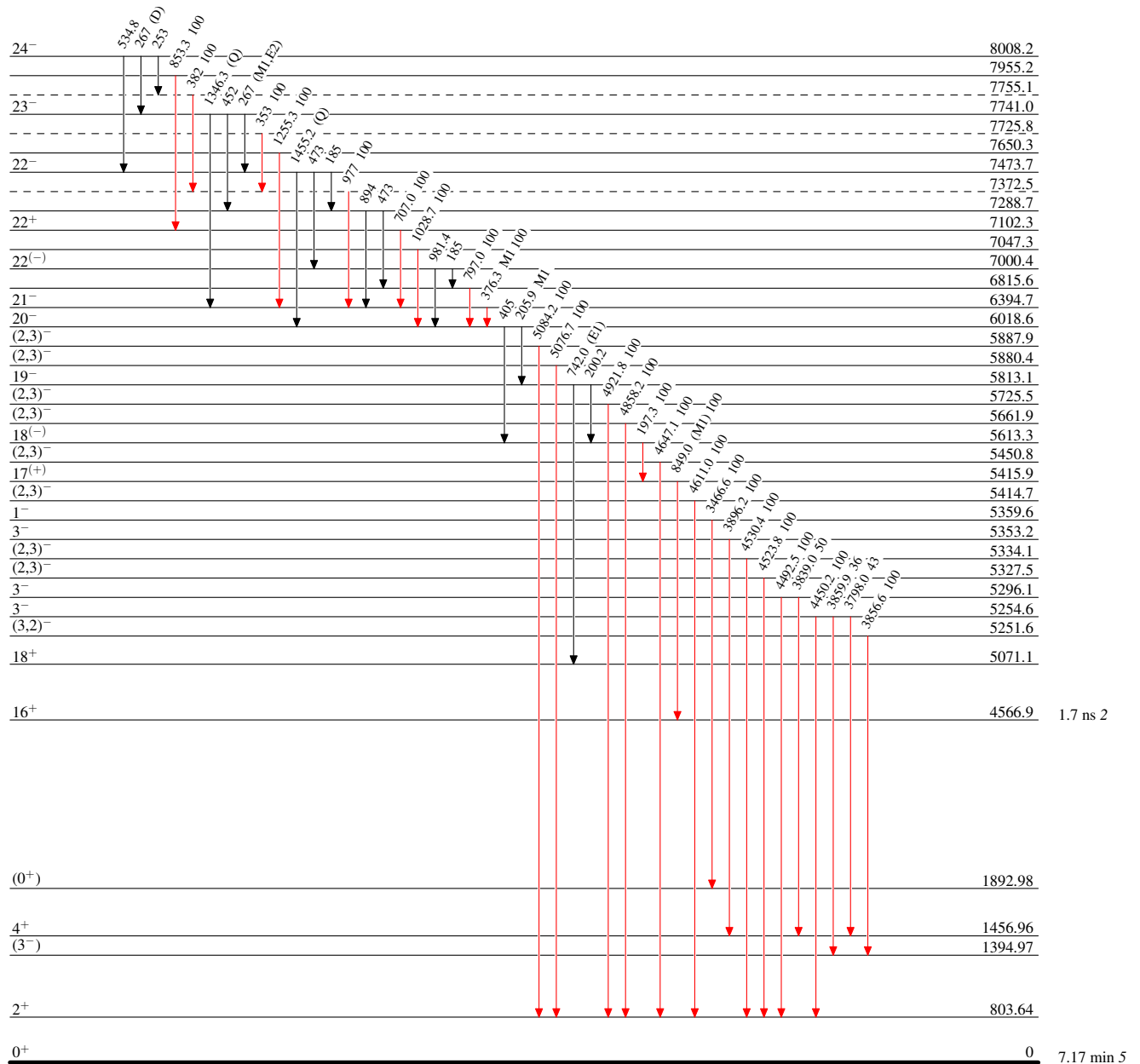


Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Type not specified

Legend

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



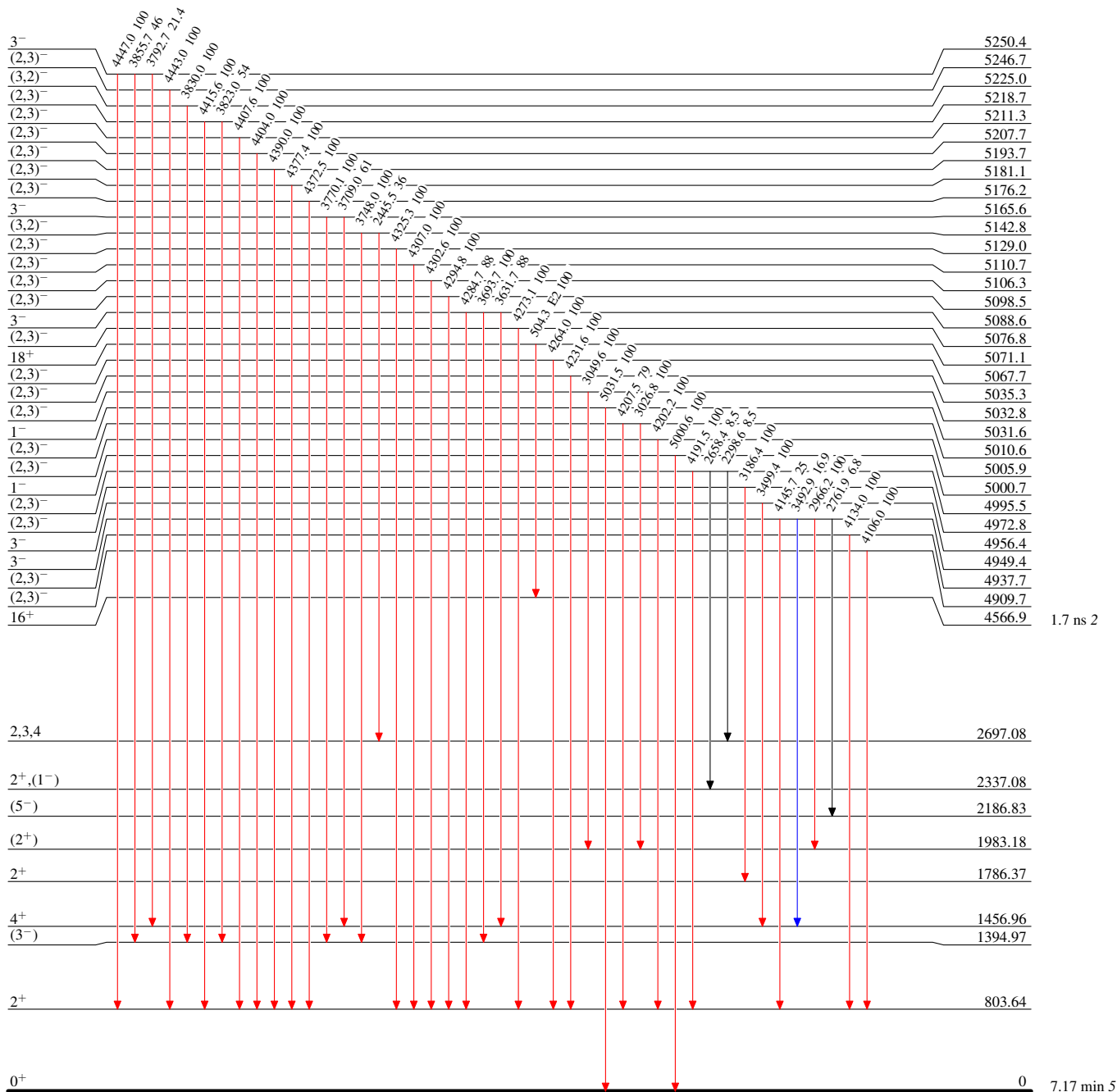
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

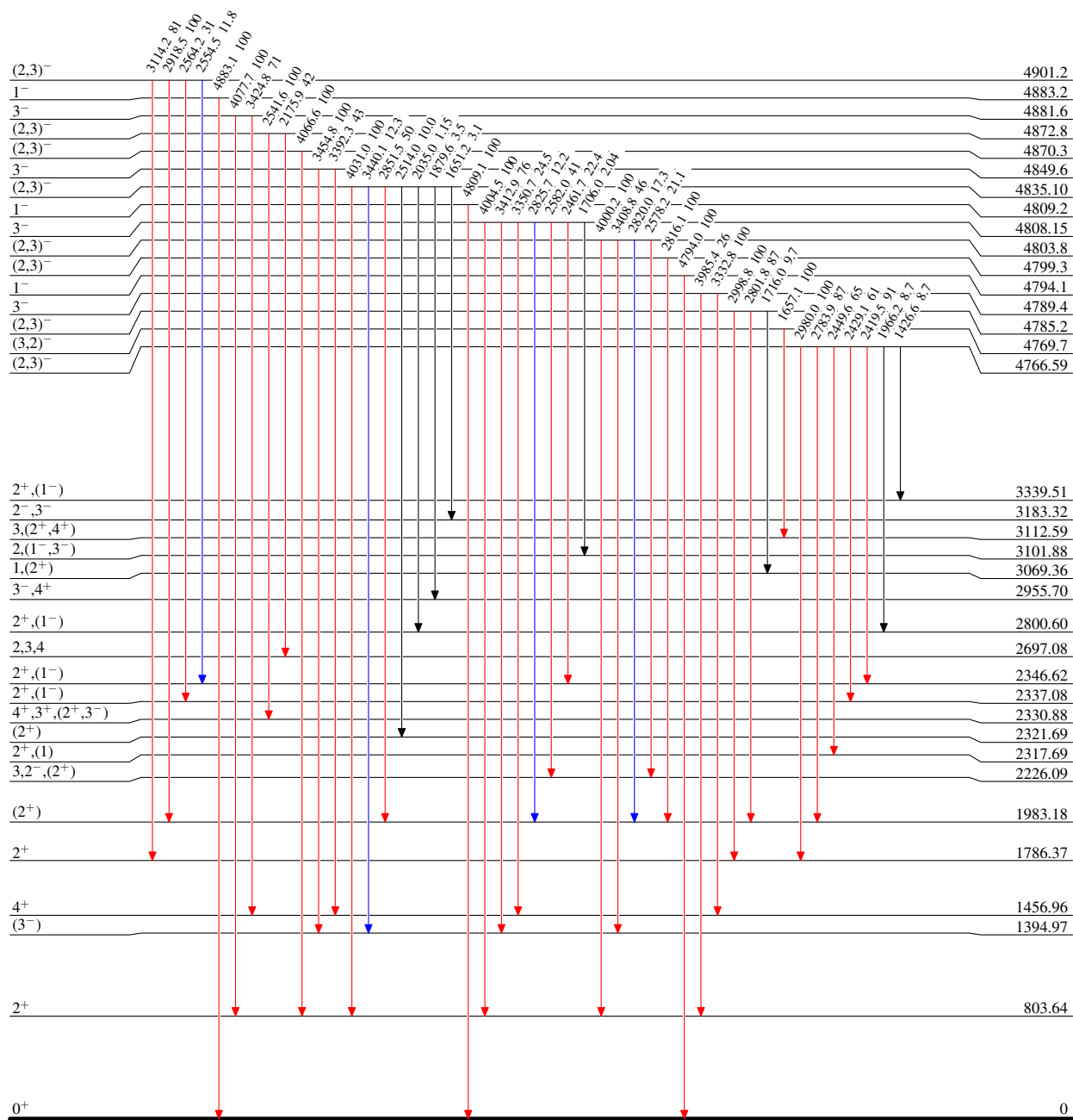
Legend

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



Intensities: Type not specified

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

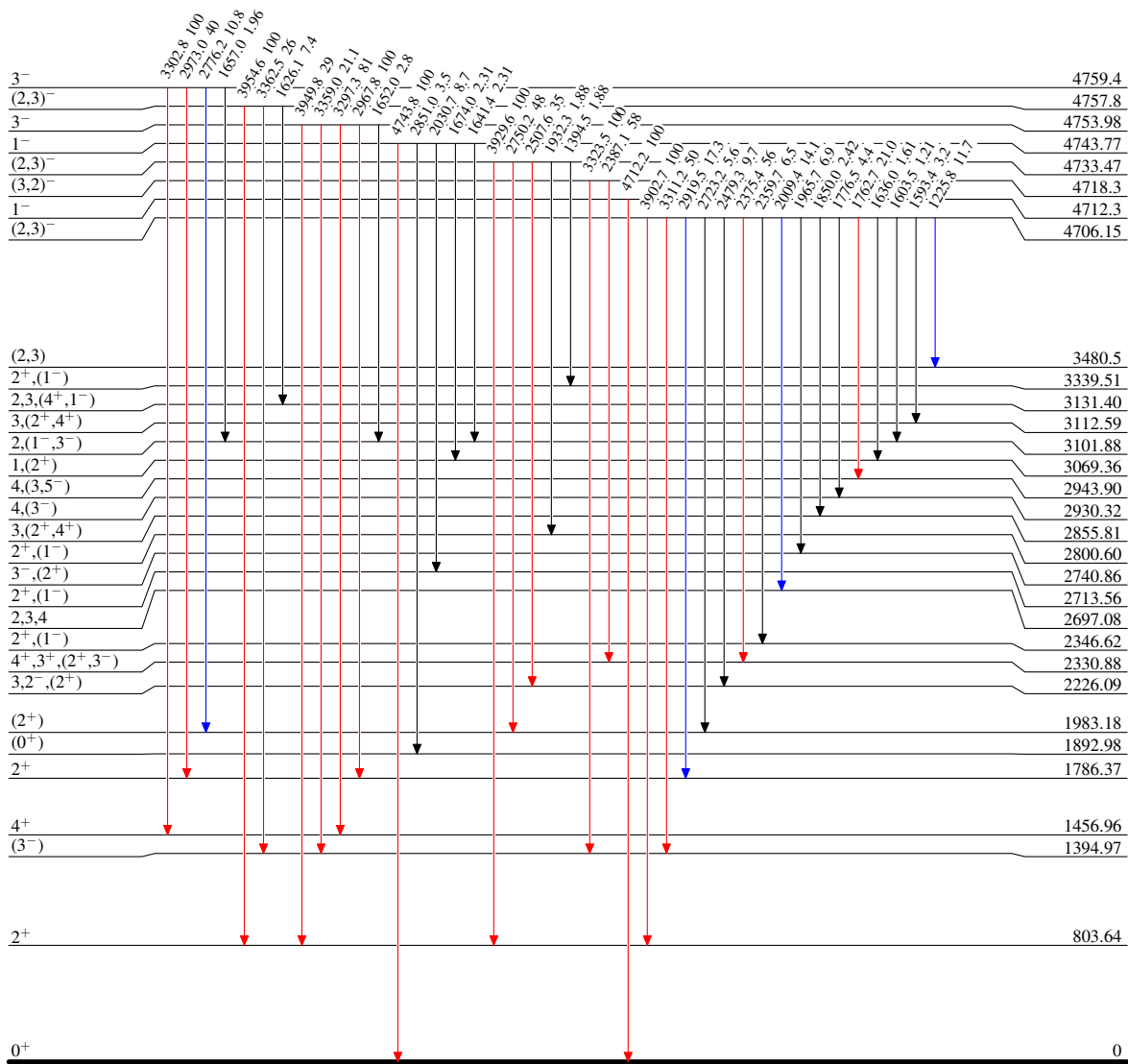


Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Type not specified

Legend

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

 $^{150}_{66}\text{Dy}_{84}$

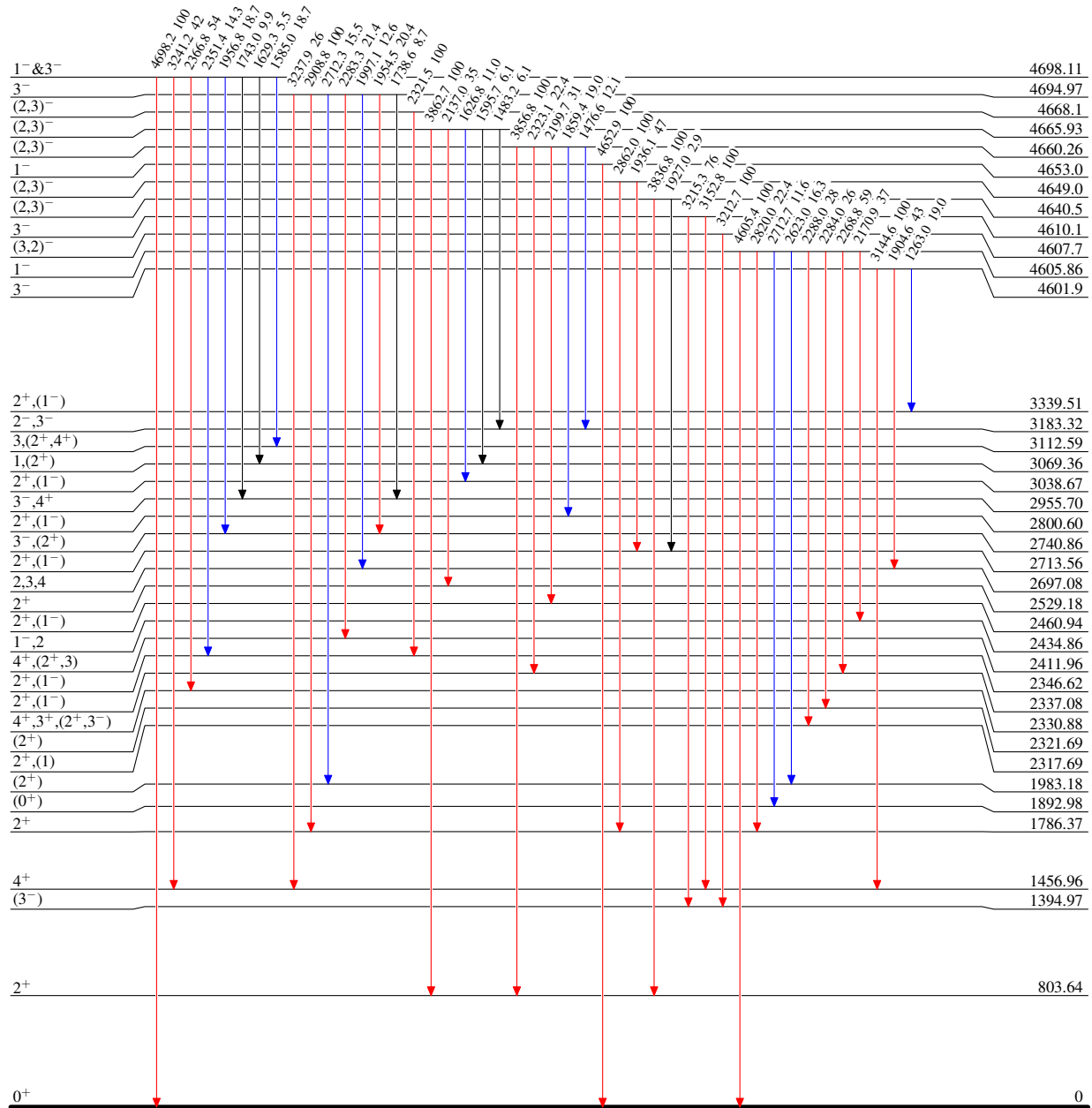
7.17 min 5

Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Type not specified

Legend

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



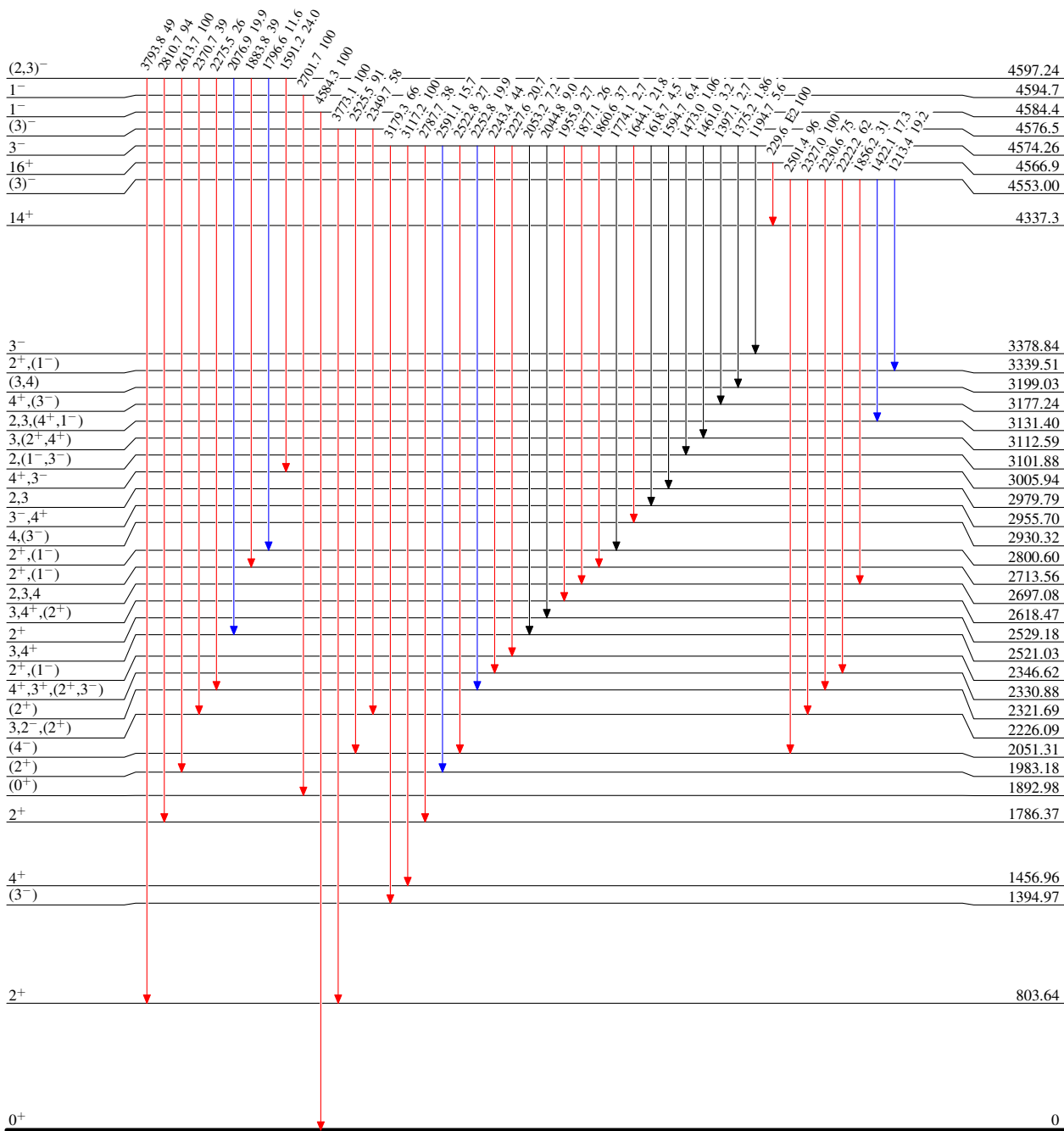
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

Legend

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

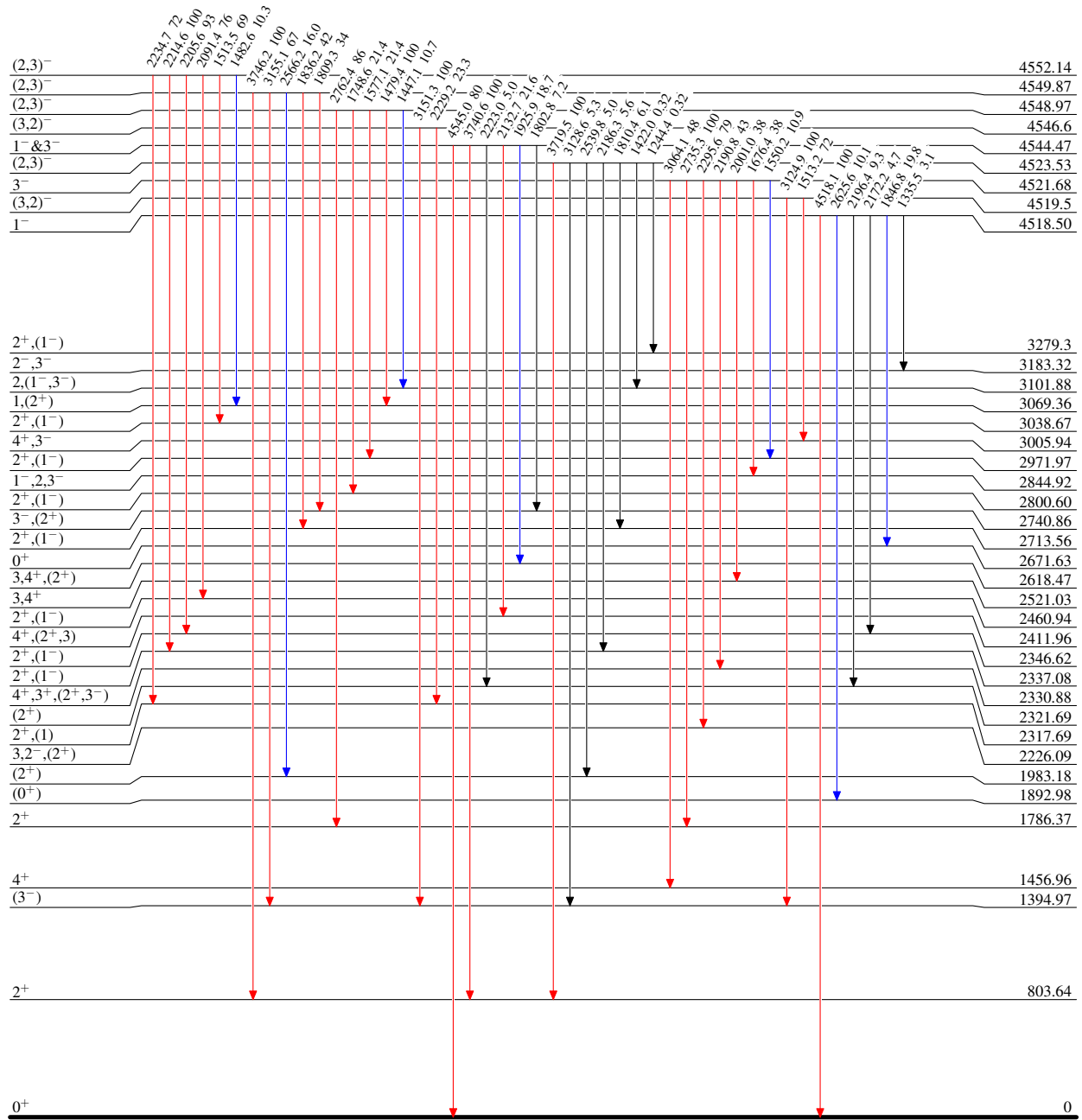


Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Type not specified

Legend

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

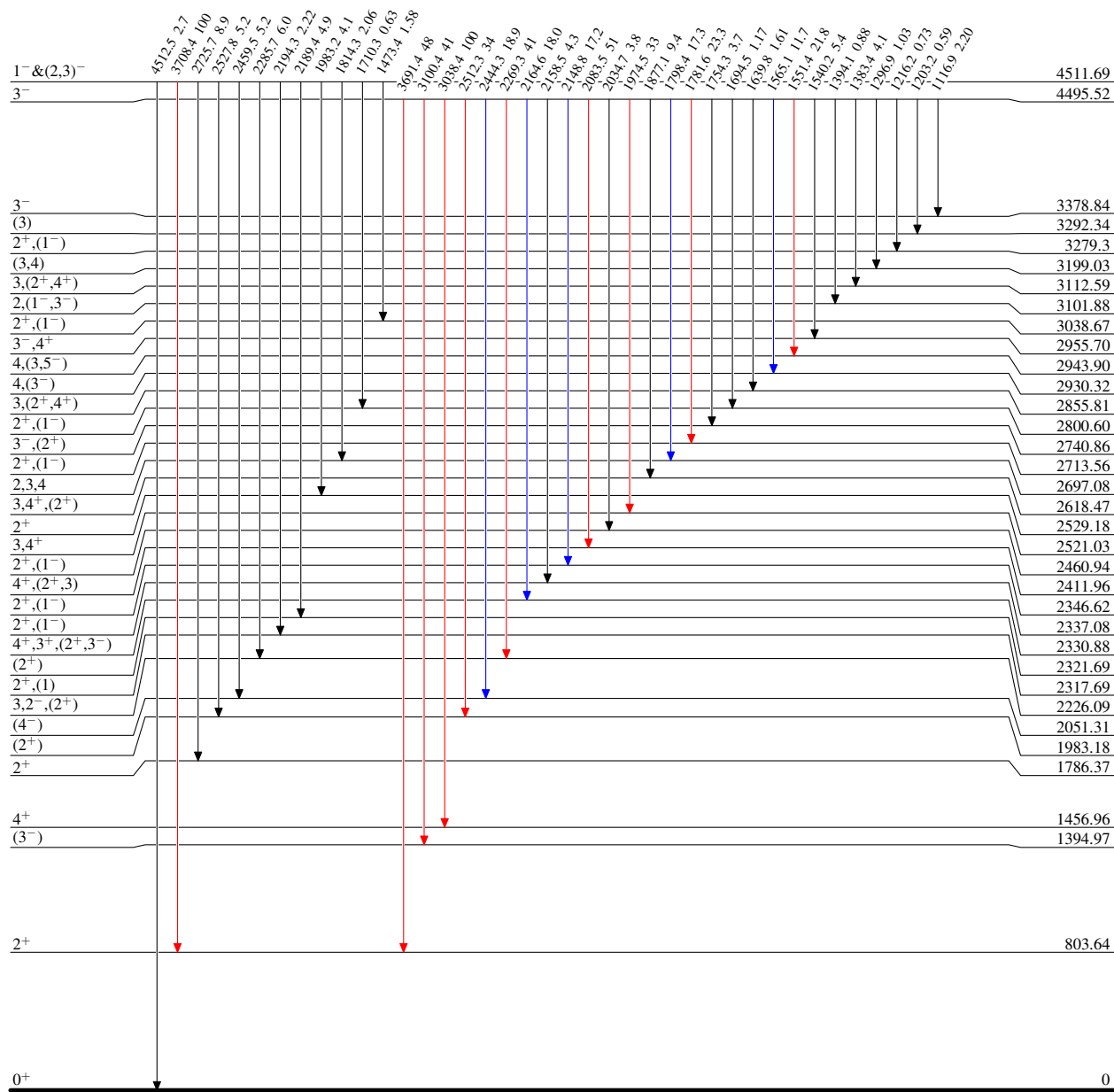


Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Type not specified

Legend

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



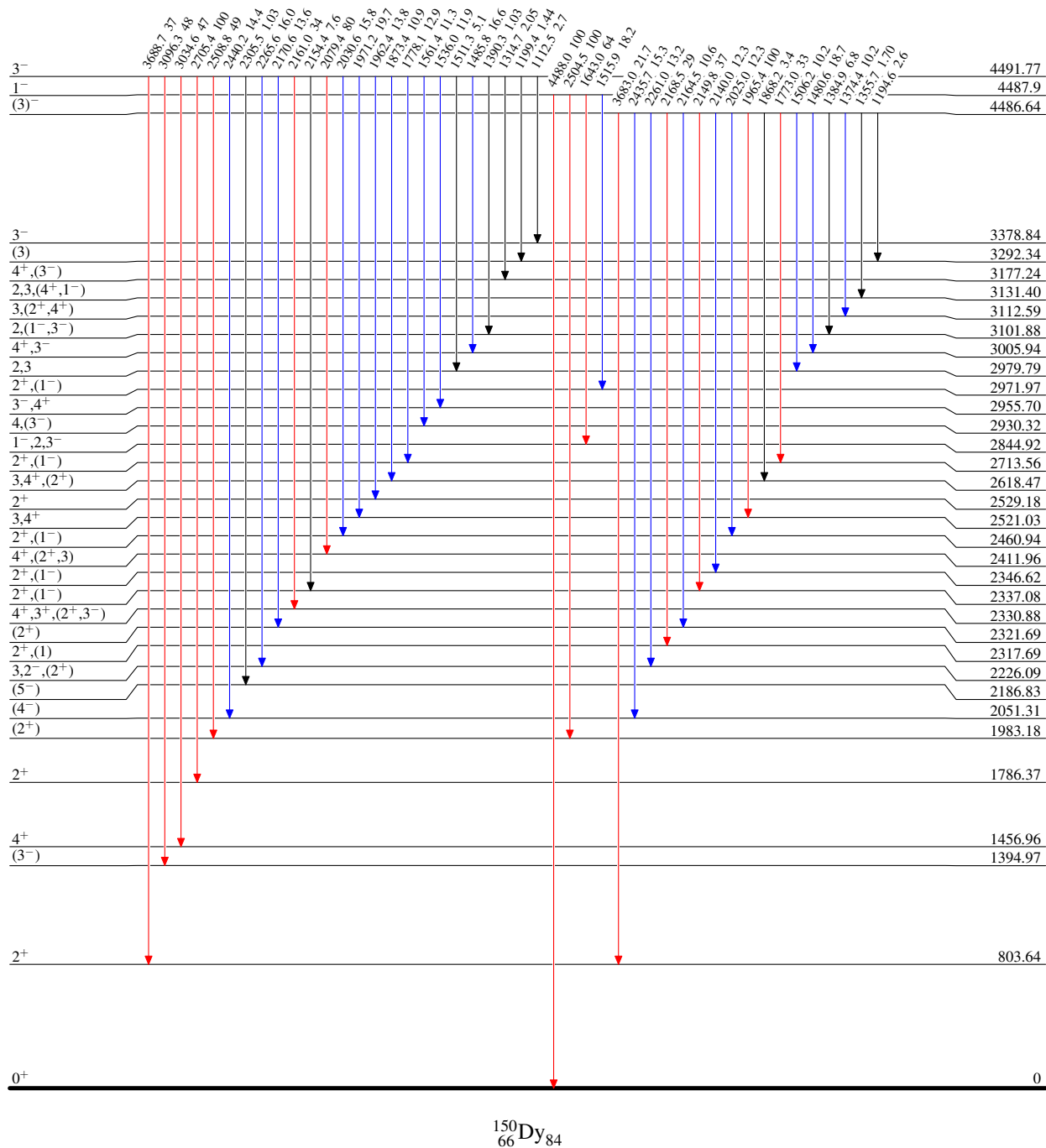
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

Legend

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



7.17 min 5

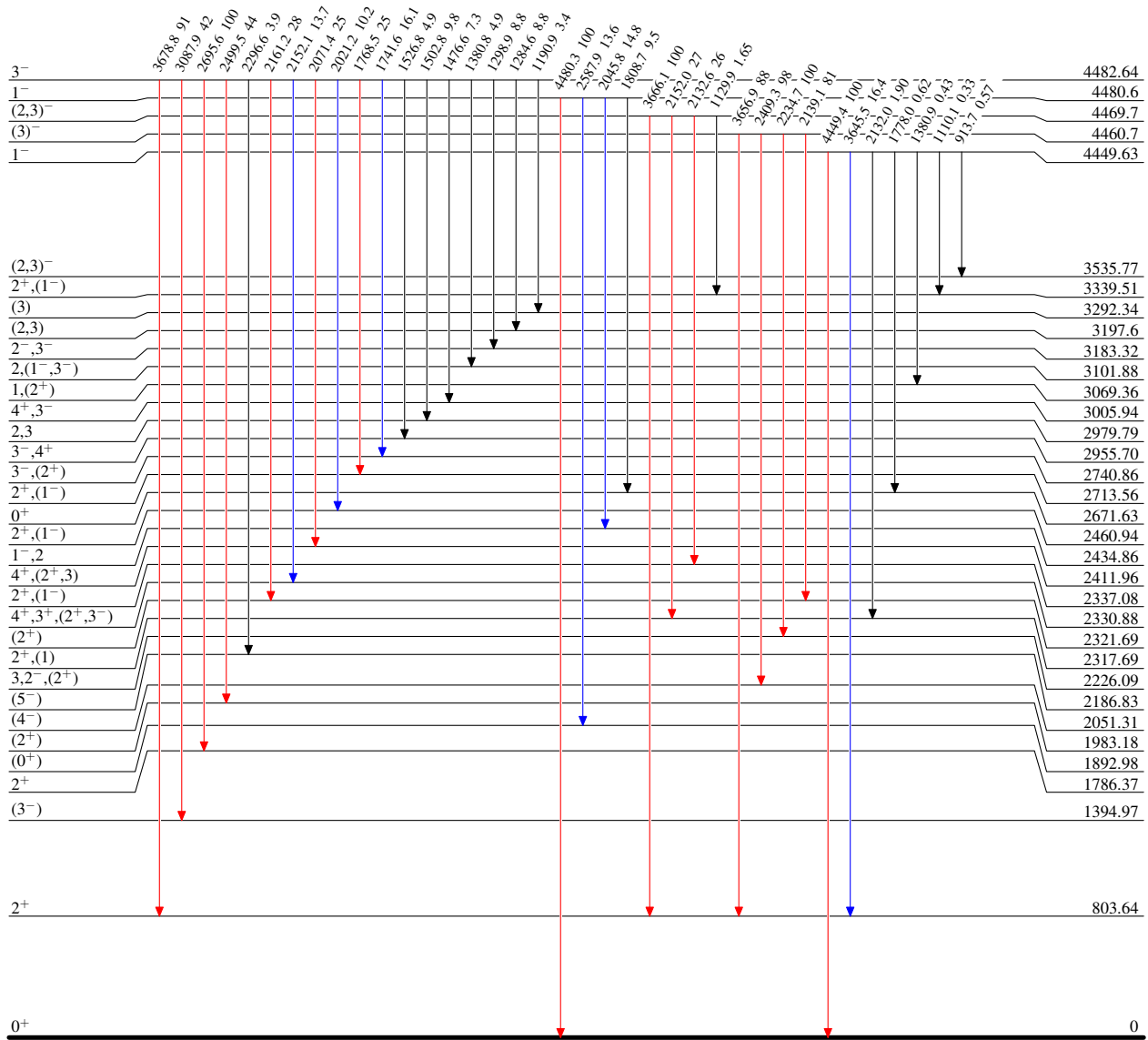
 $^{150}_{66}\text{Dy}_{84}$

Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Type not specified

Legend

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



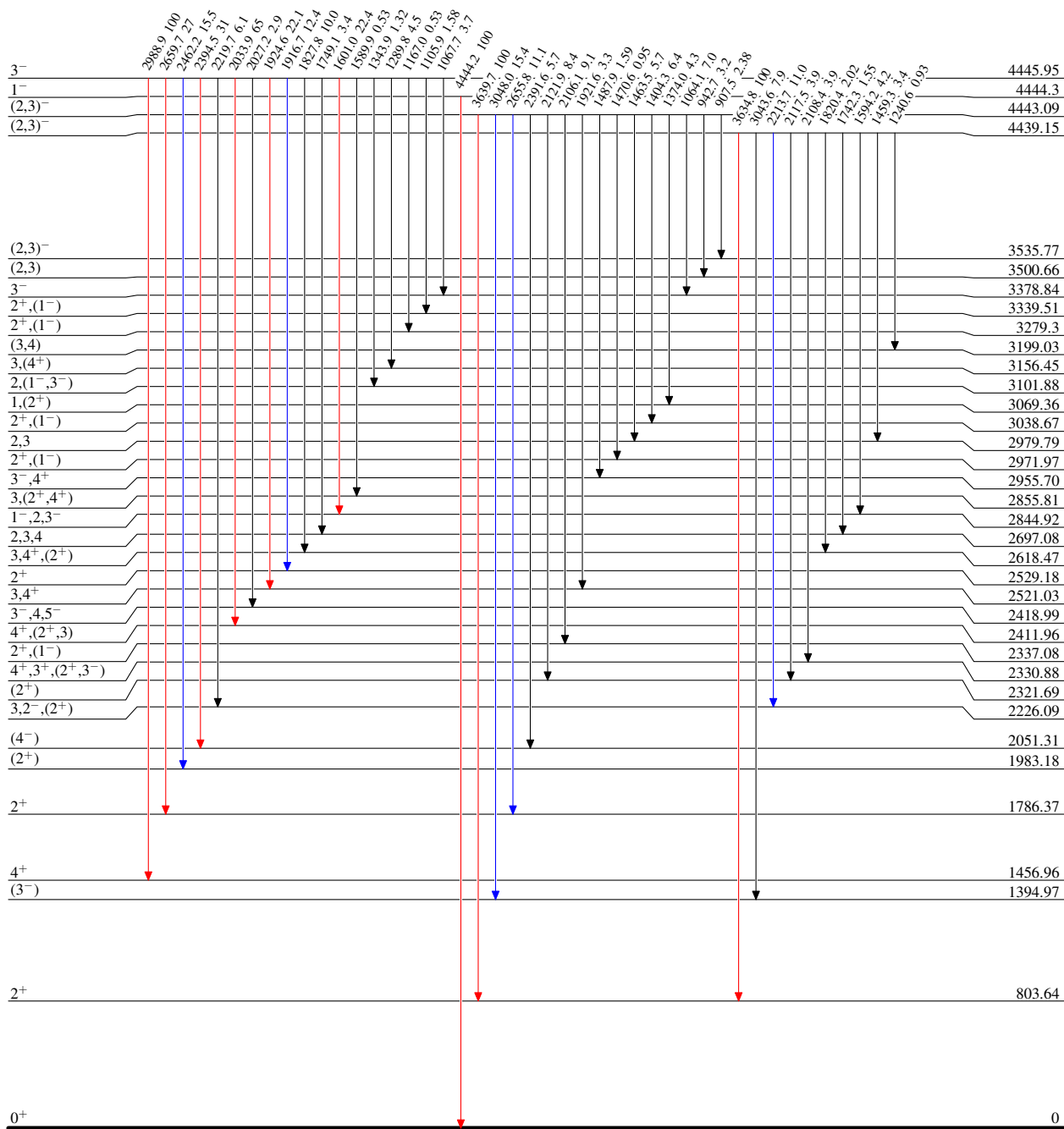
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

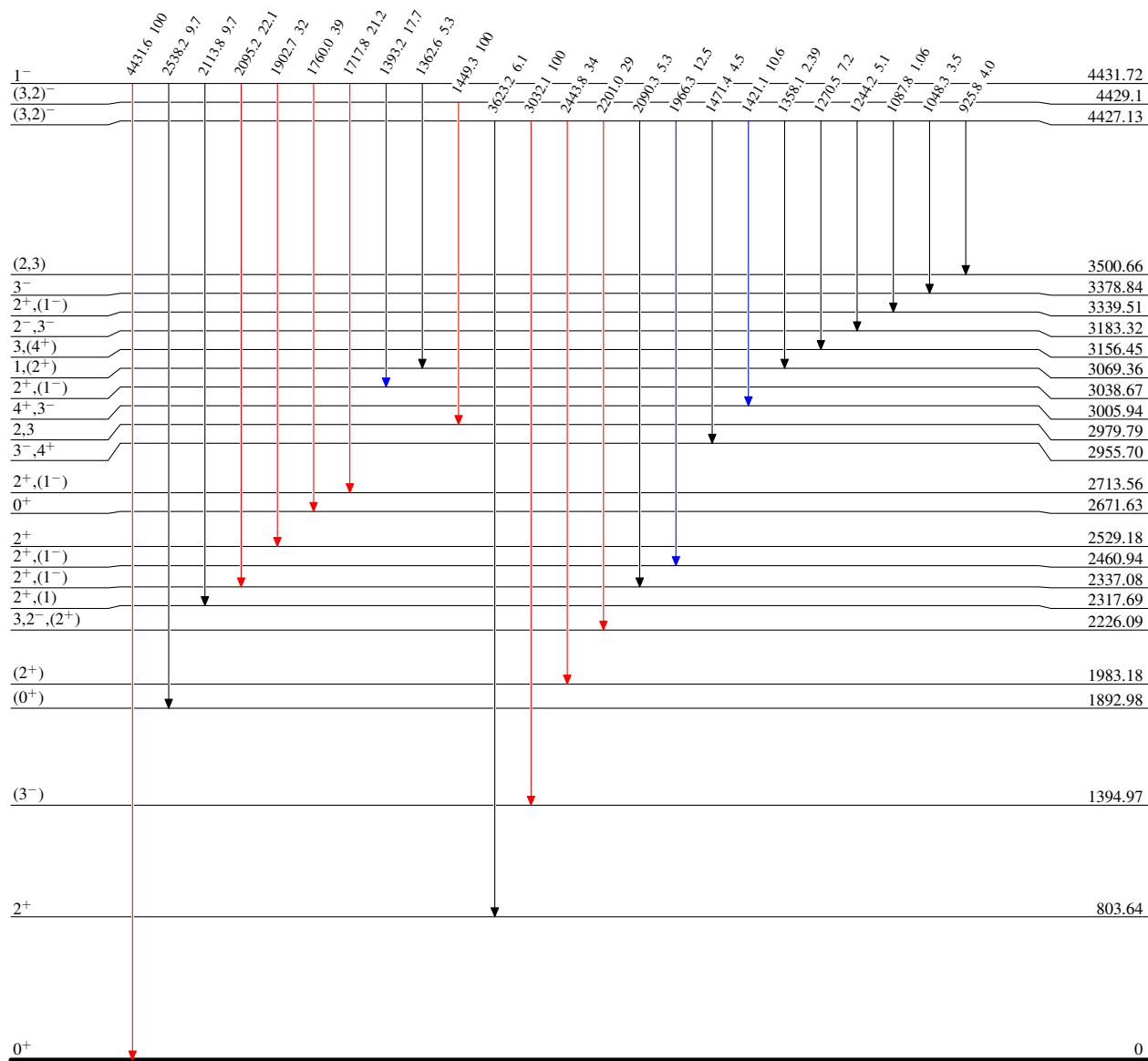
Legend

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



Legend

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

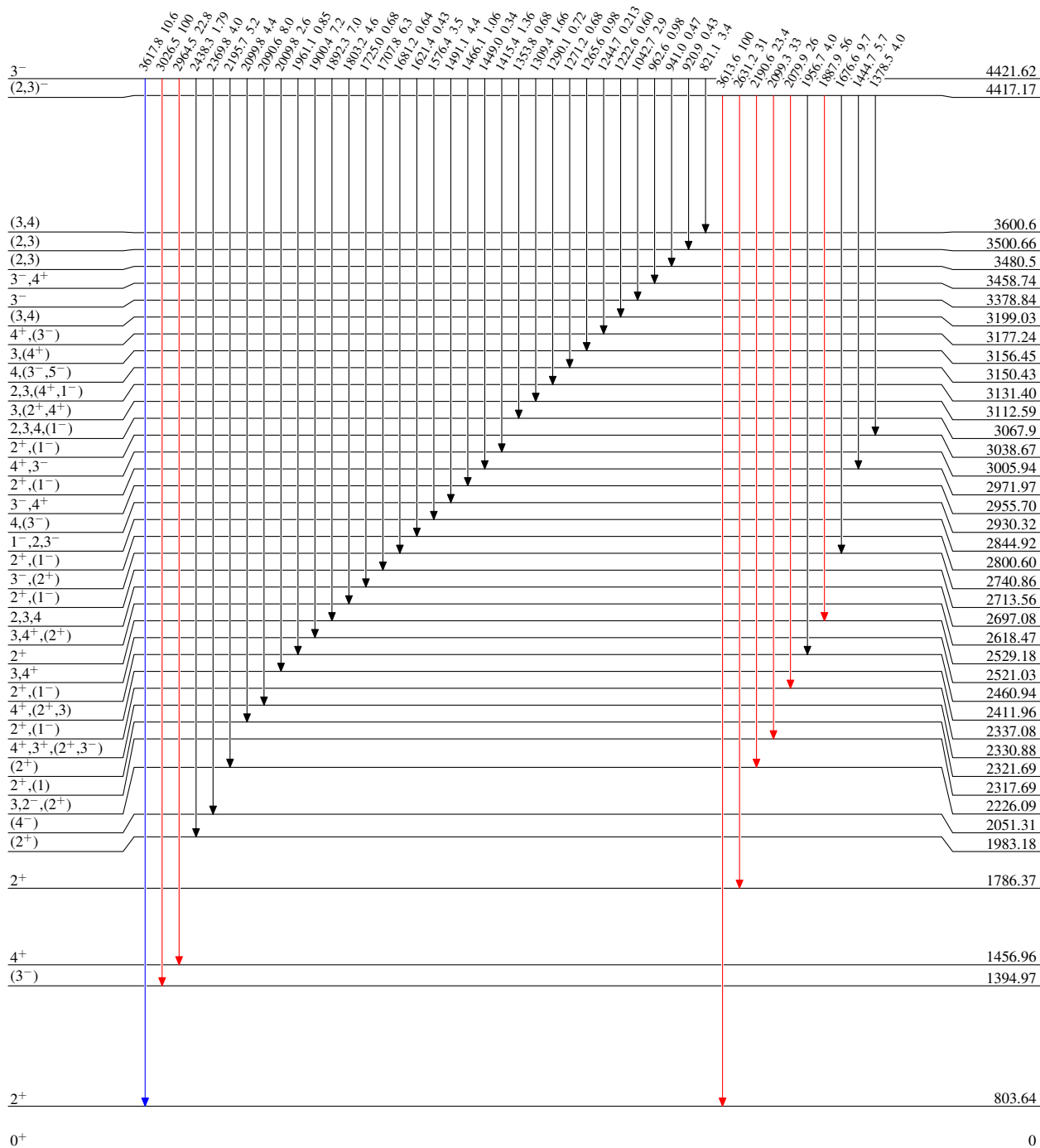
 $^{150}_{66}\text{Dy}_{84}$

Adopted Levels, GammasLevel Scheme (continued)

Intensities: Type not specified

Legend

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

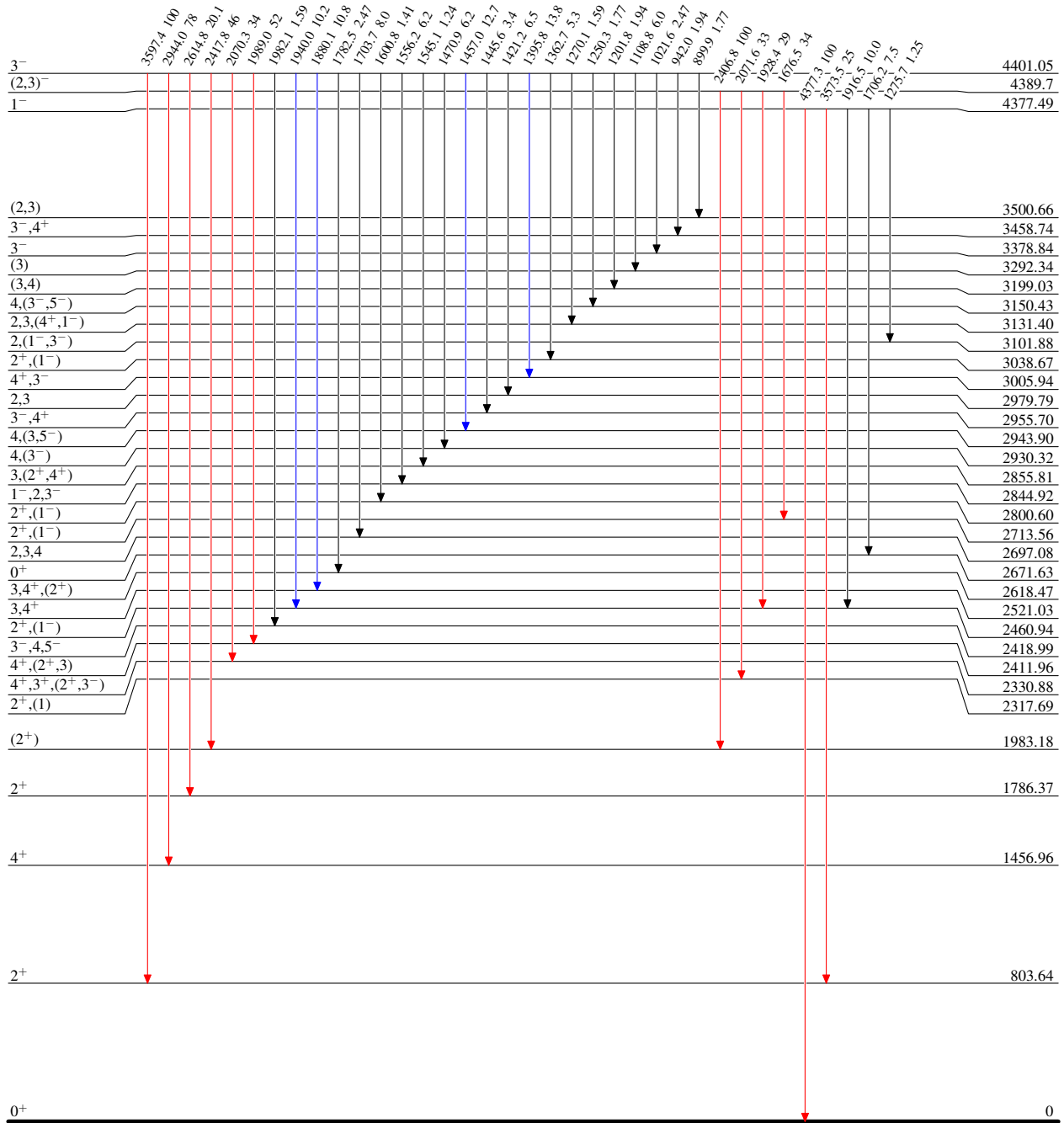


Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Type not specified

Legend

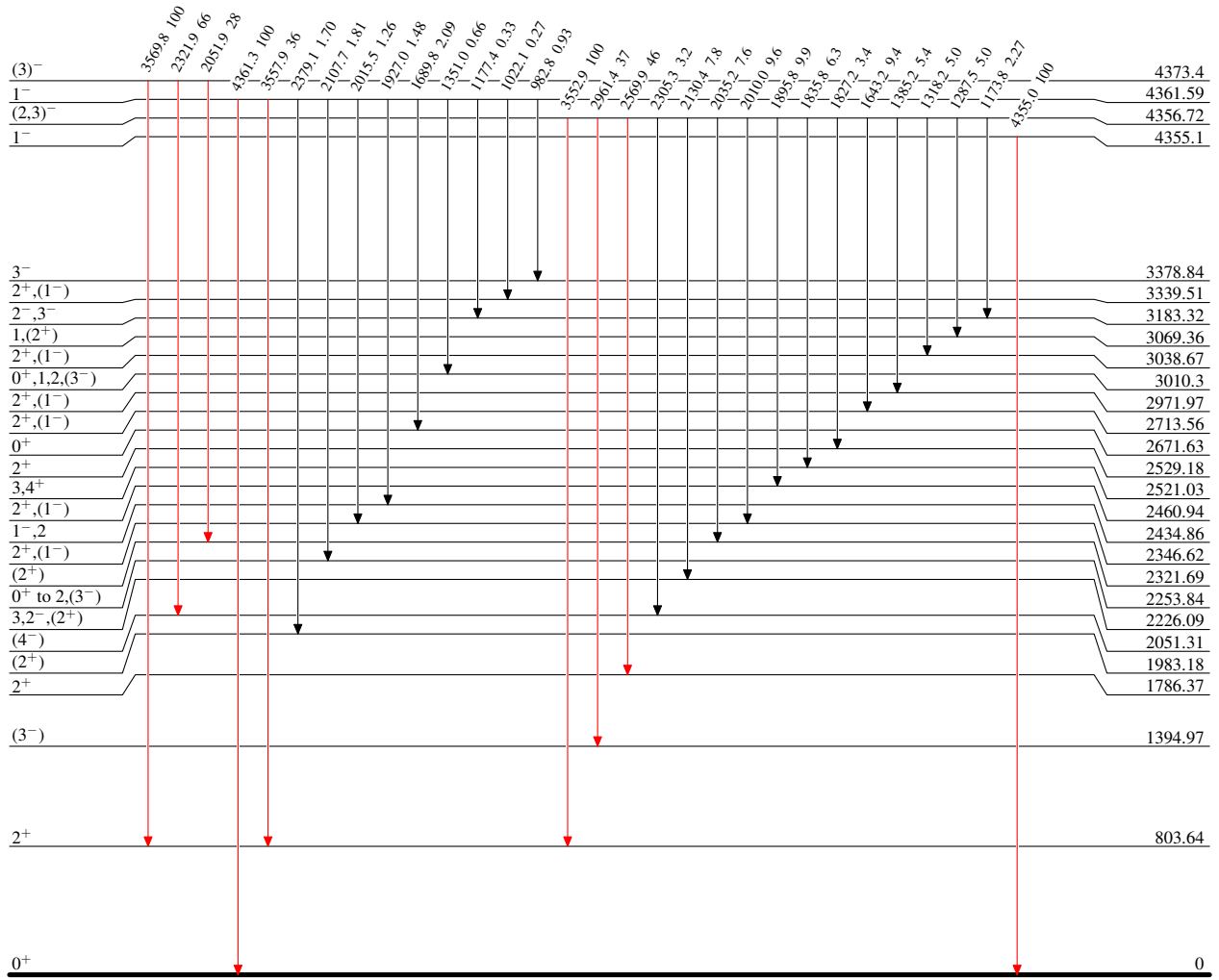
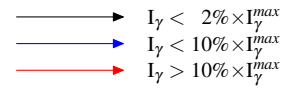
- $I_\gamma < 2\% \times I_\gamma^{\max}$
—→ $I_\gamma < 10\% \times I_\gamma^{\max}$
—→ $I_\gamma > 10\% \times I_\gamma^{\max}$



Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Type not specified

Legend

 $^{150}_{66}\text{Dy}_{84}$

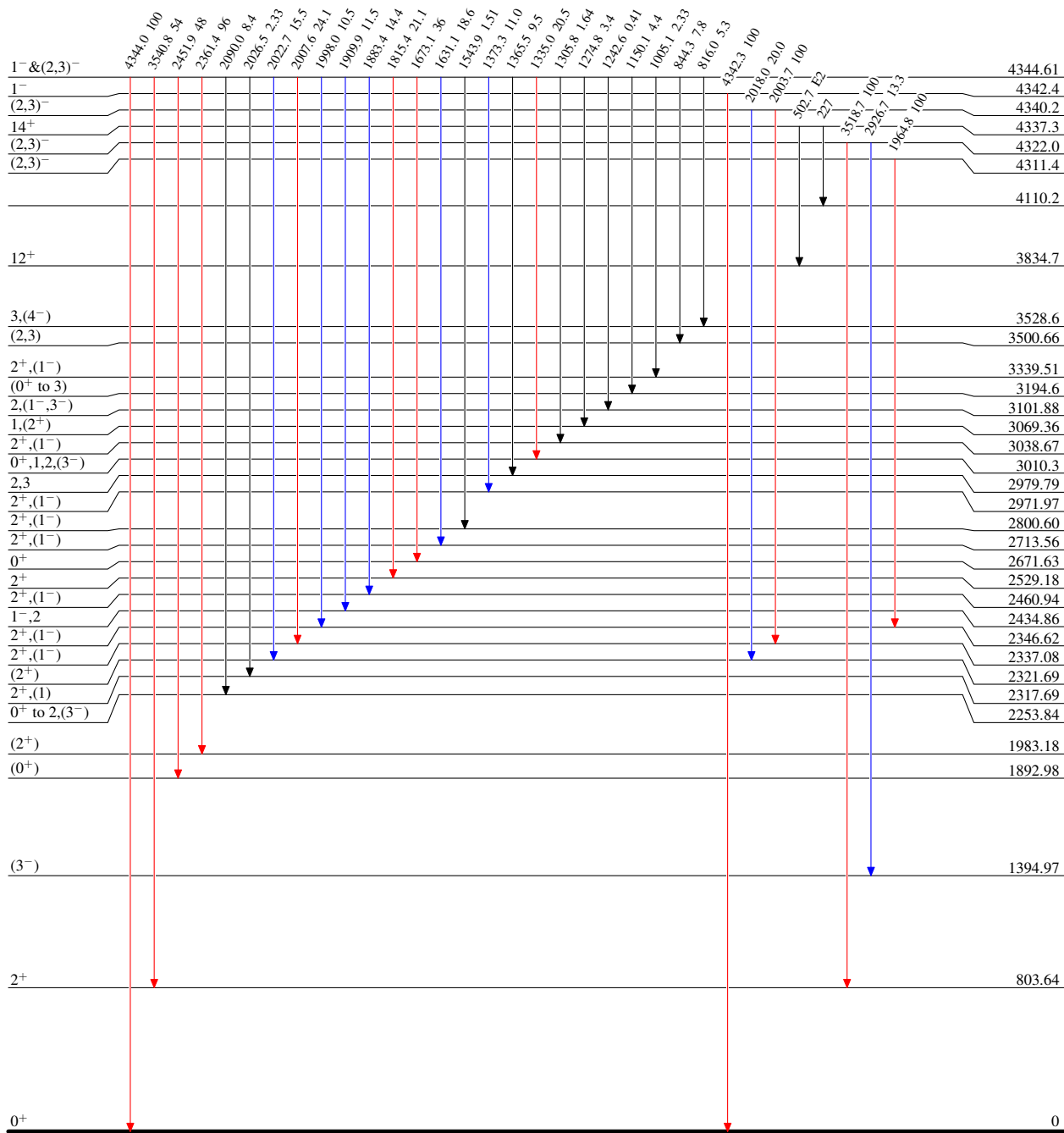
7.17 min 5

Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Type not specified

Legend

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

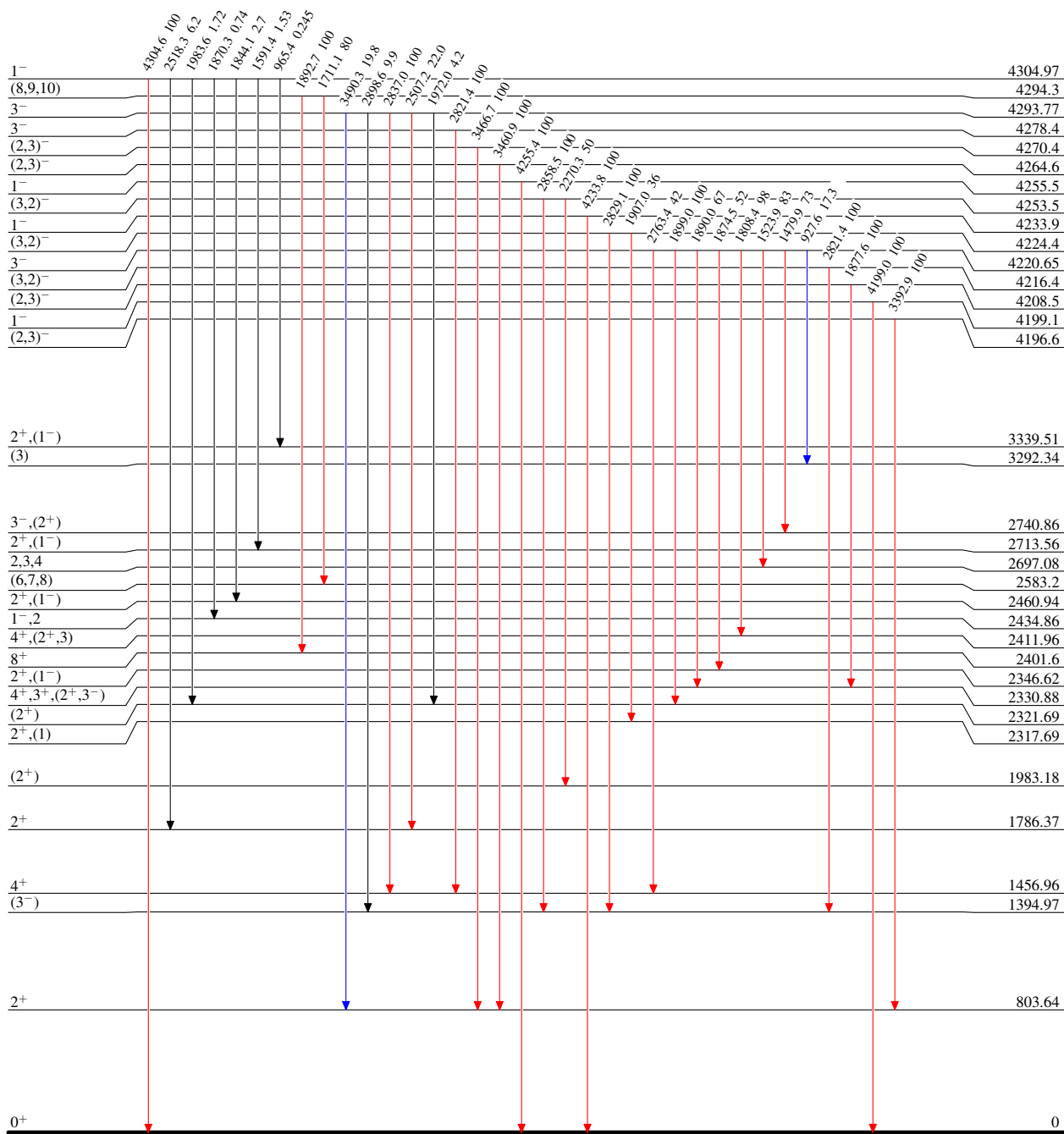


Adopted Levels, Gammas**Level Scheme (continued)**

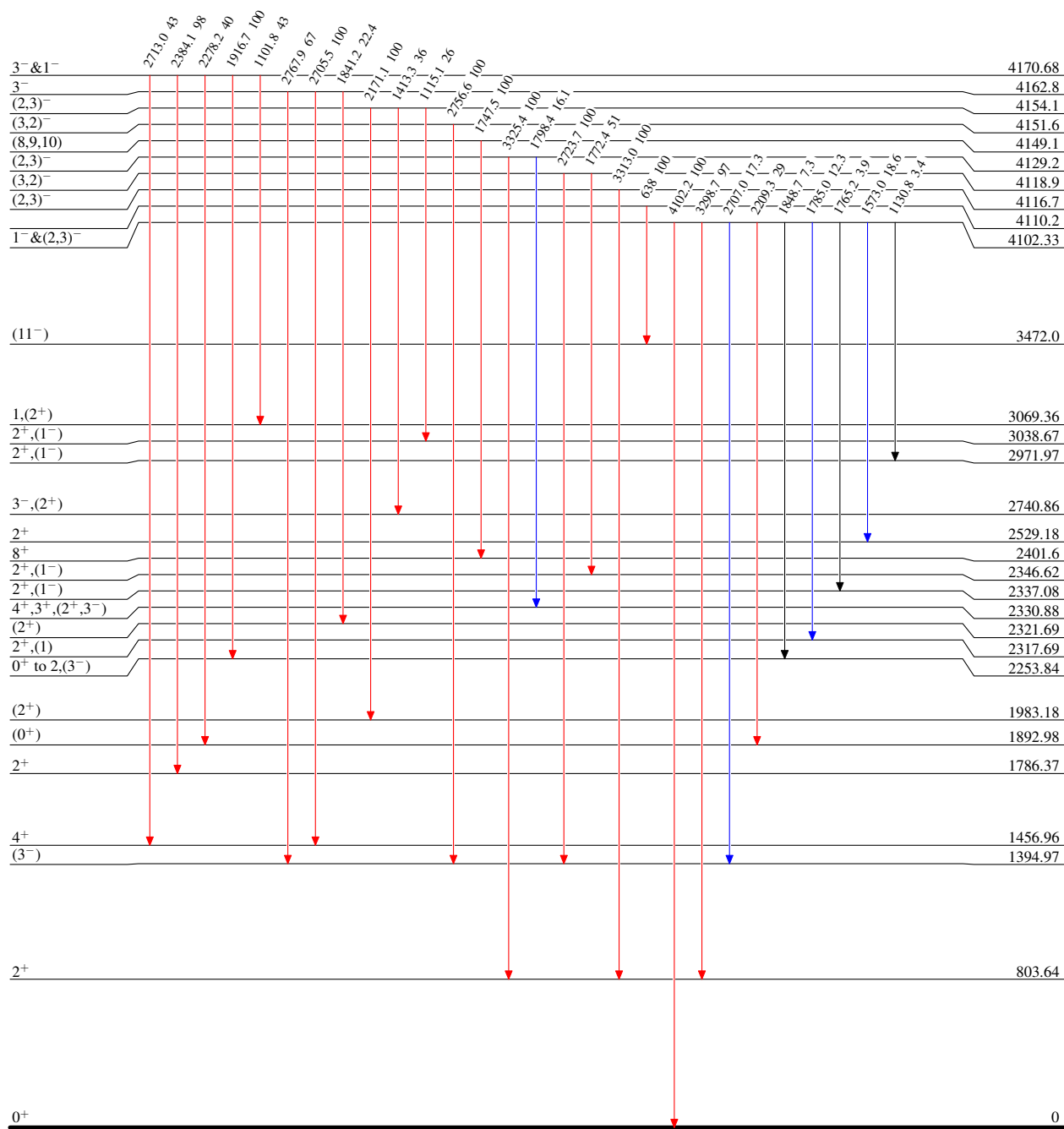
Intensities: Type not specified

Legend

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



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

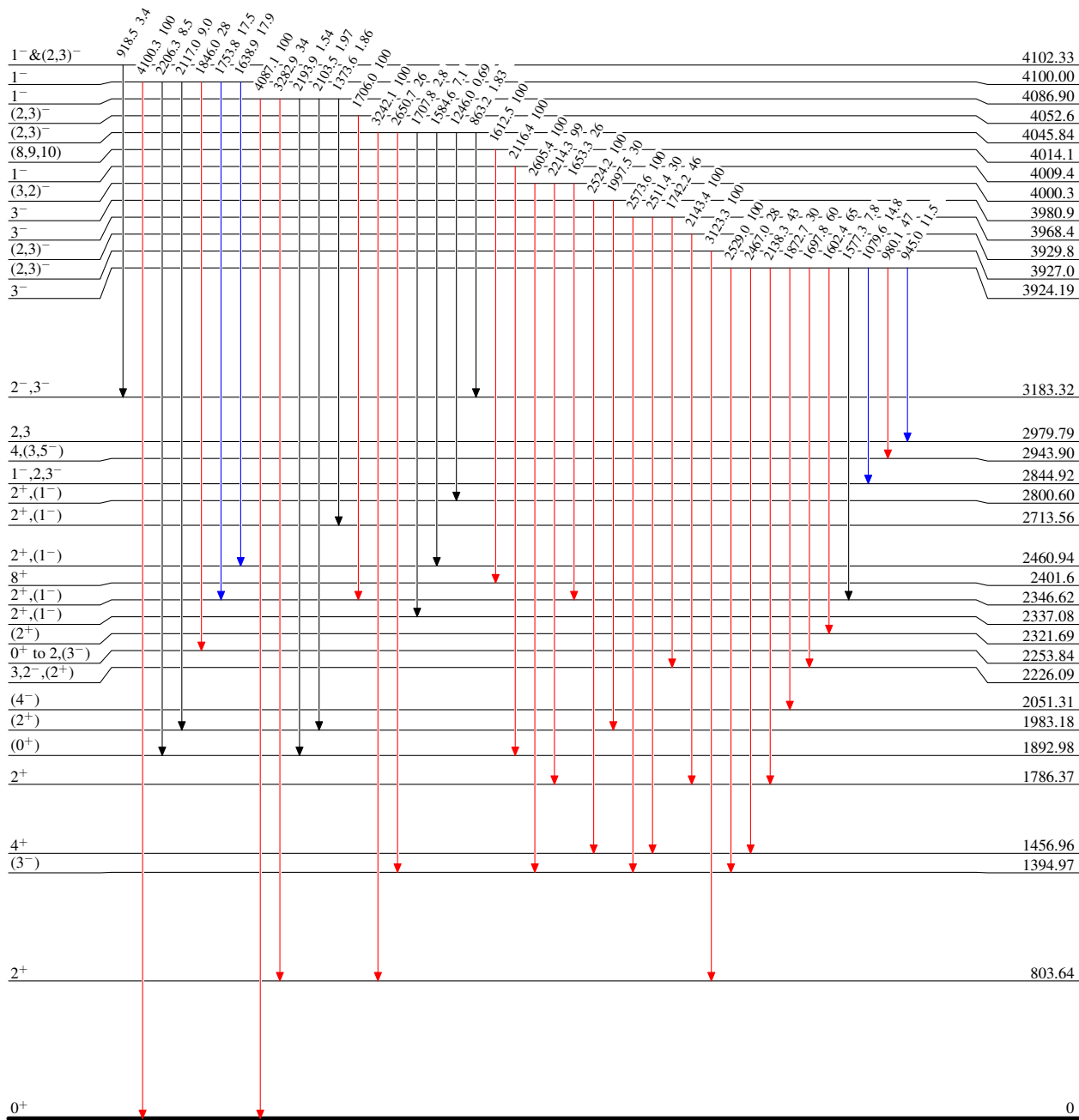
 $^{150}_{66}\text{Dy}_{84}$

Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Type not specified

Legend

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

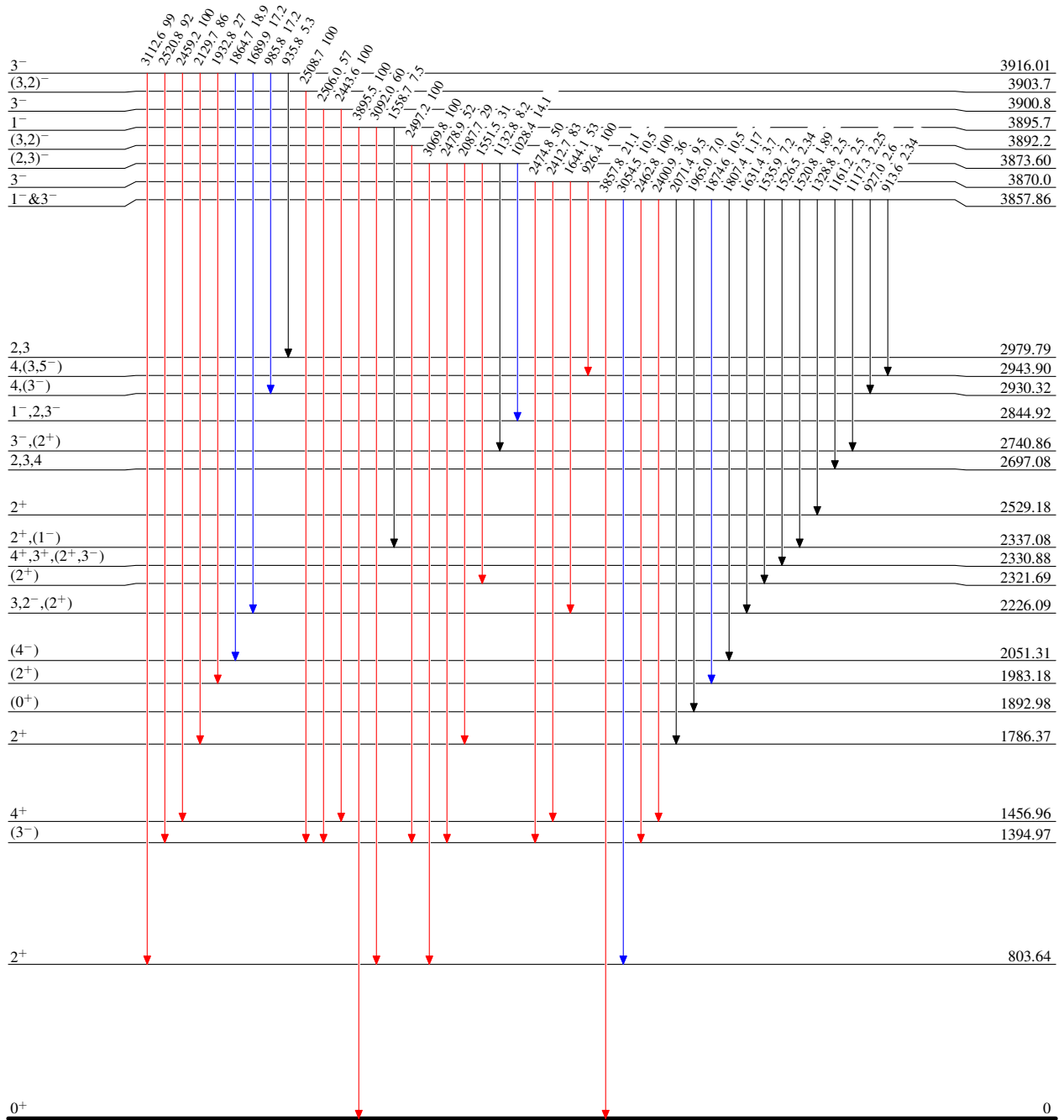


Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Type not specified

Legend

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

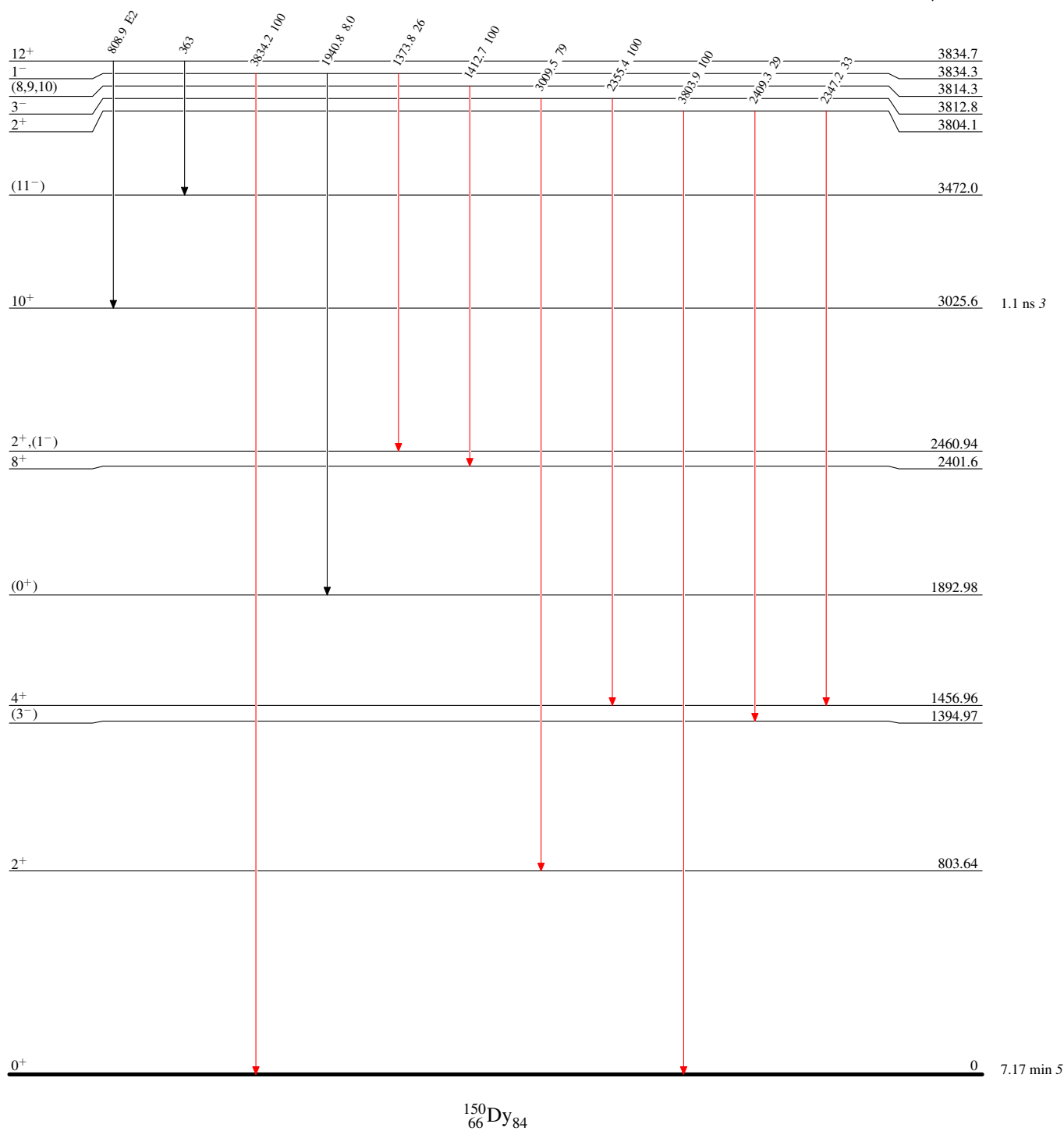


Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Type not specified

Legend

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

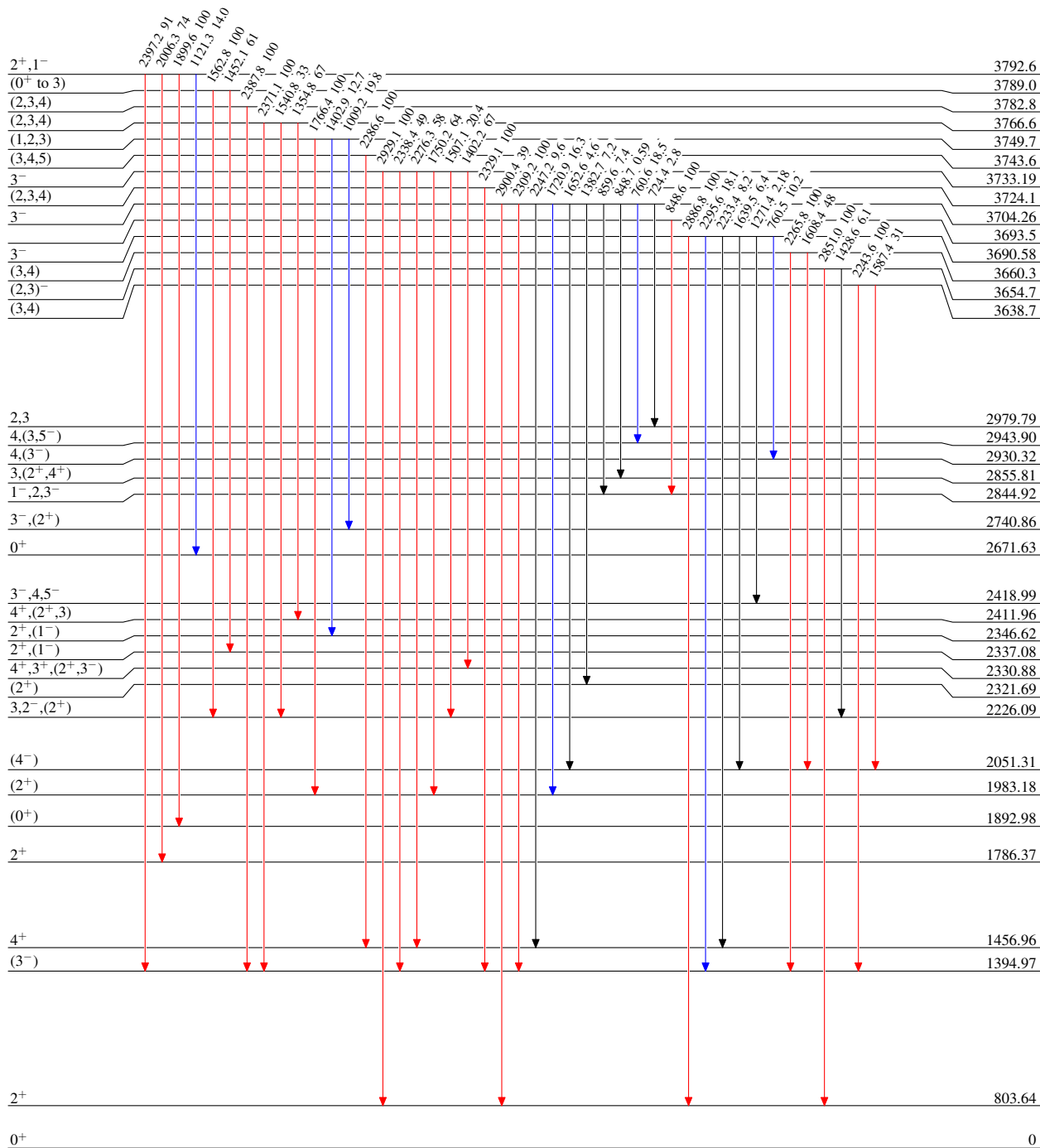


Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Type not specified

Legend

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

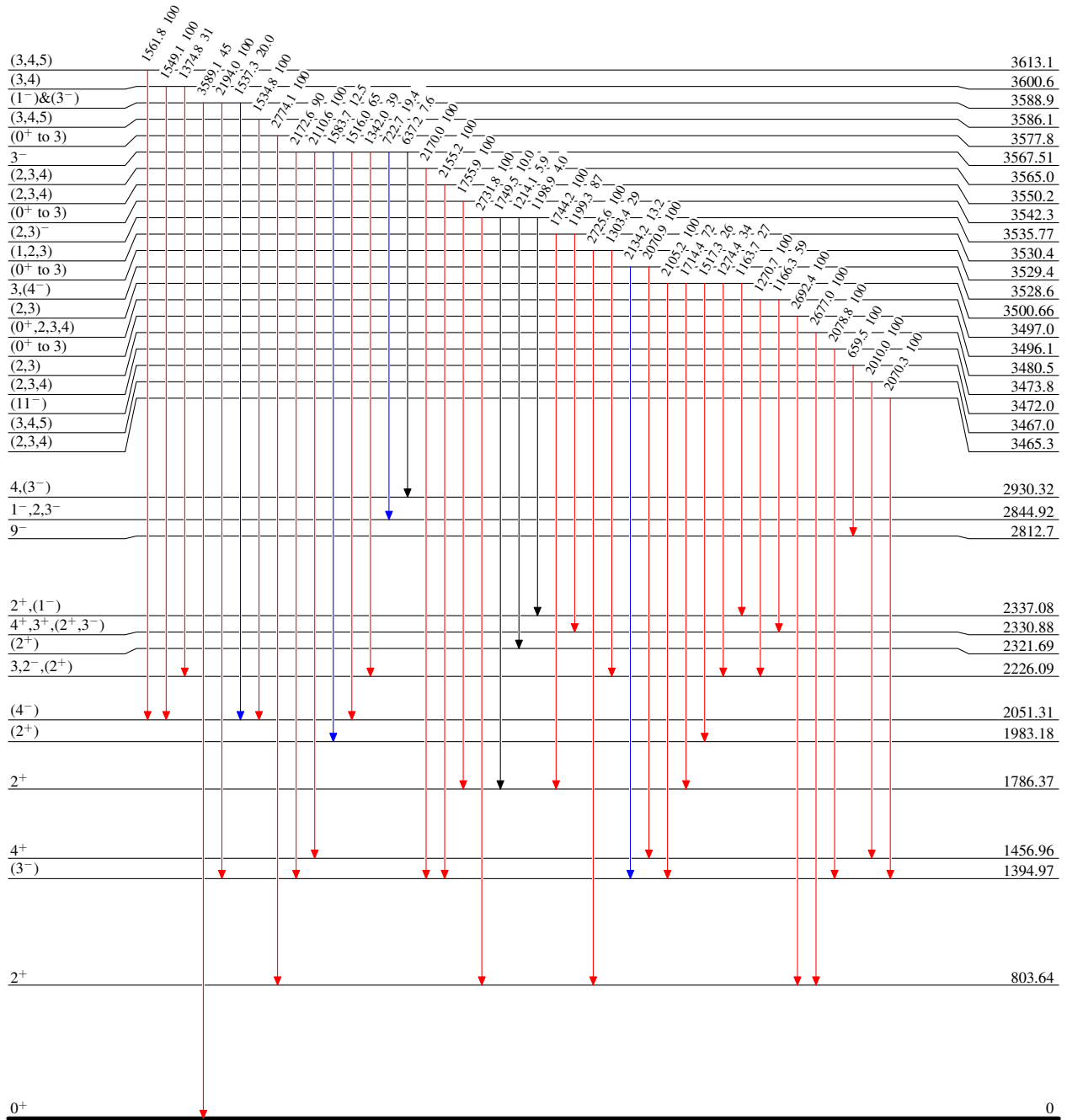


Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Type not specified

Legend

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

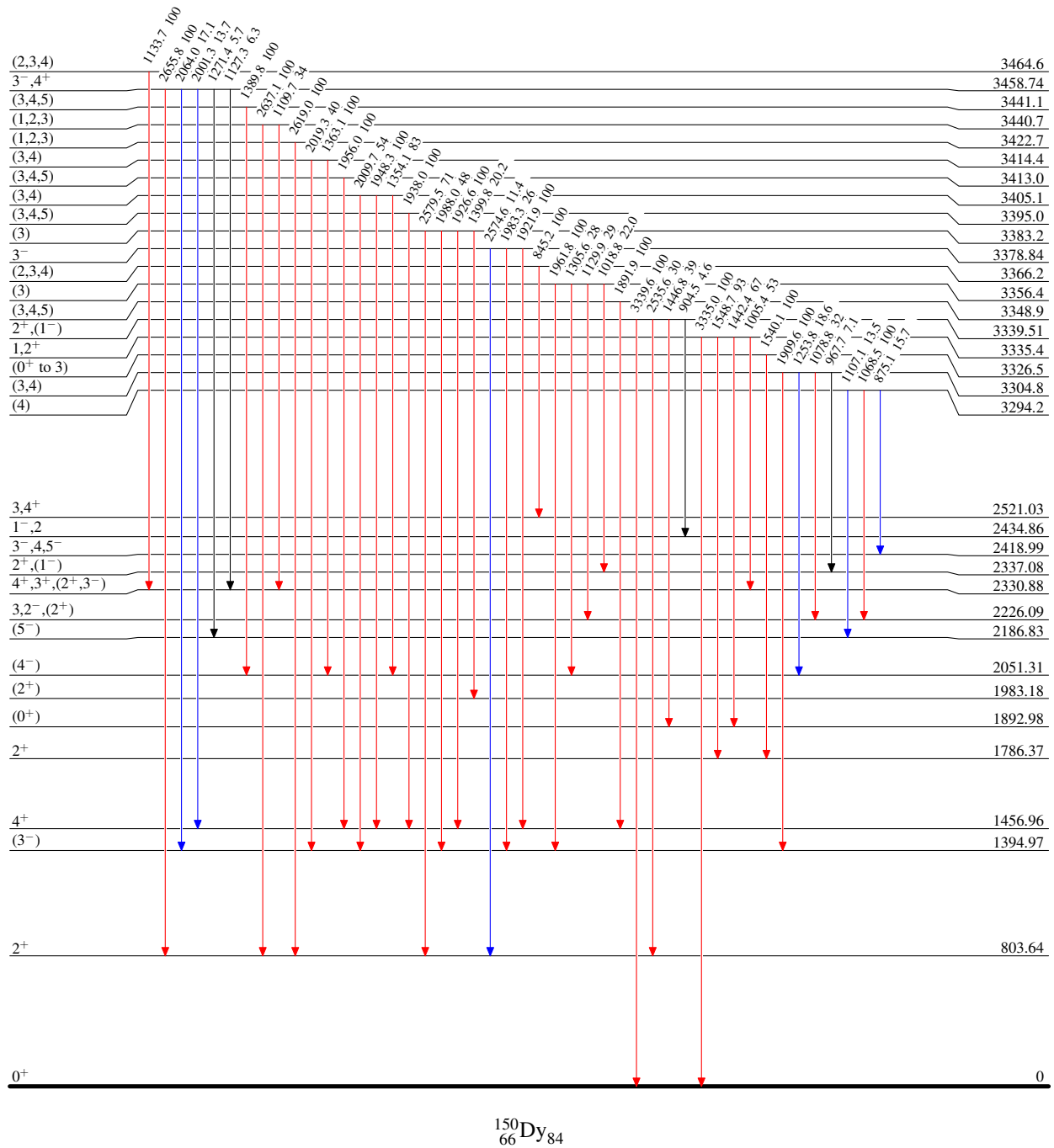


Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Type not specified

Legend

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

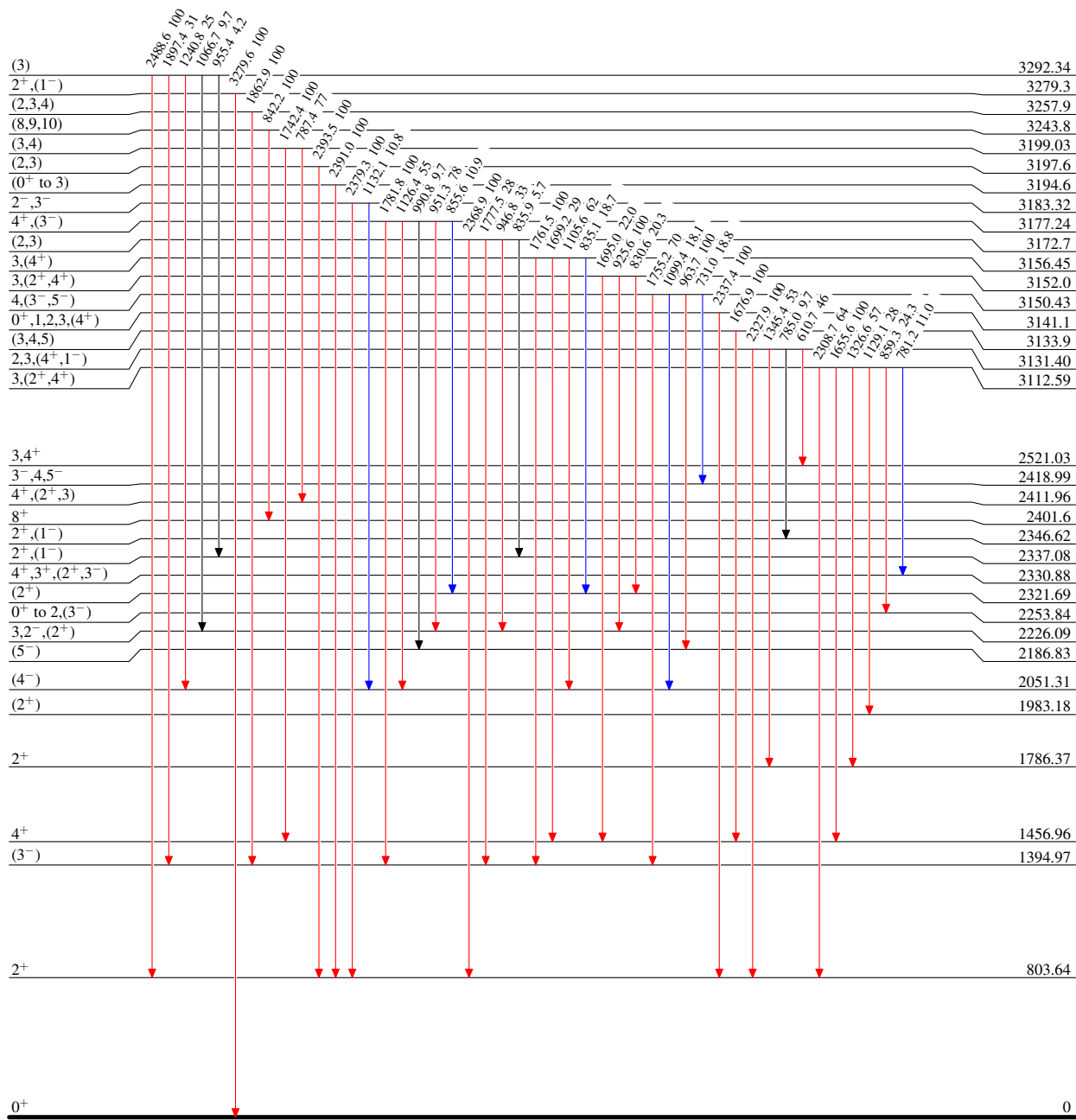
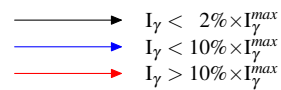


Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

Legend



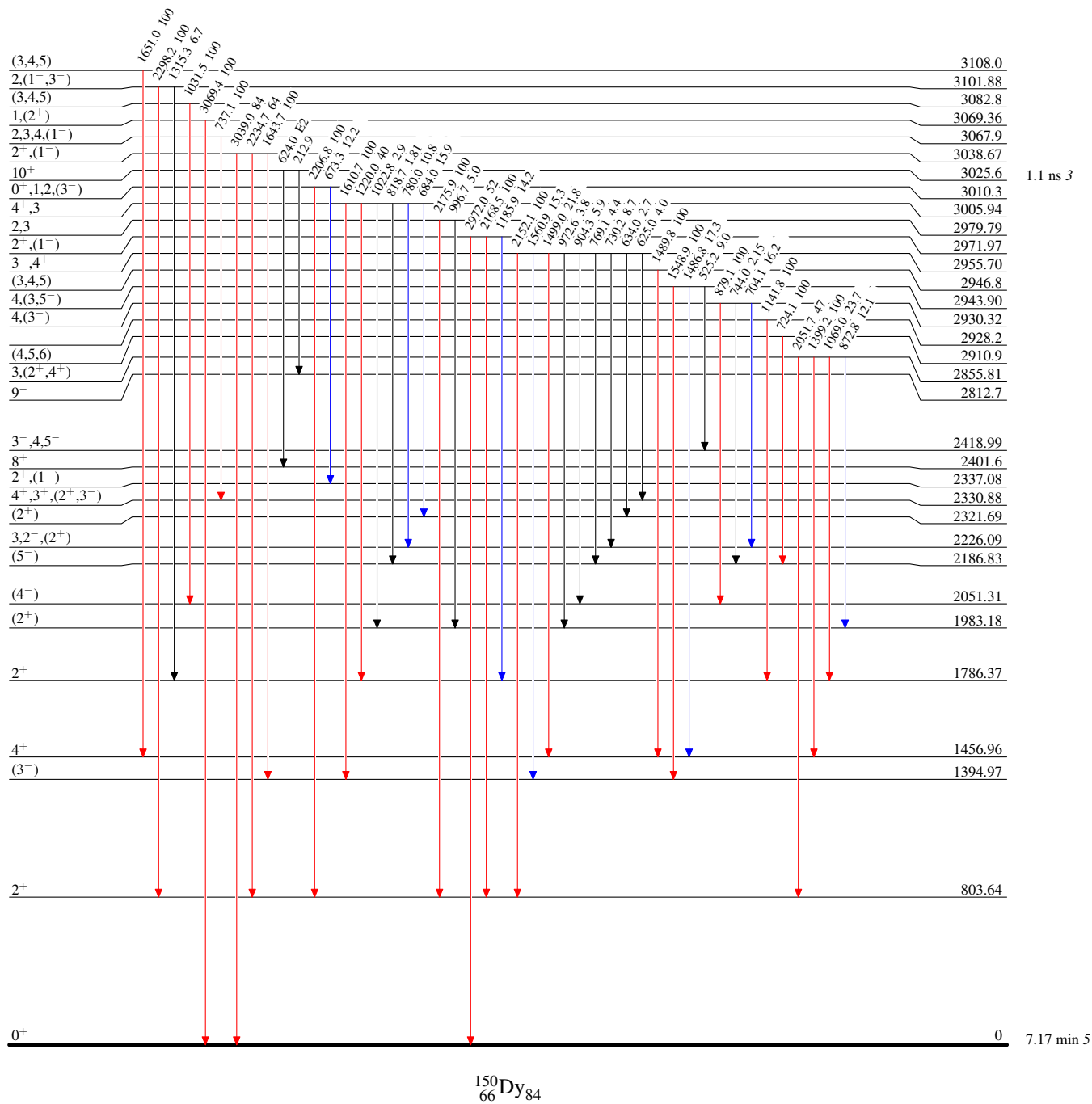
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

Legend

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

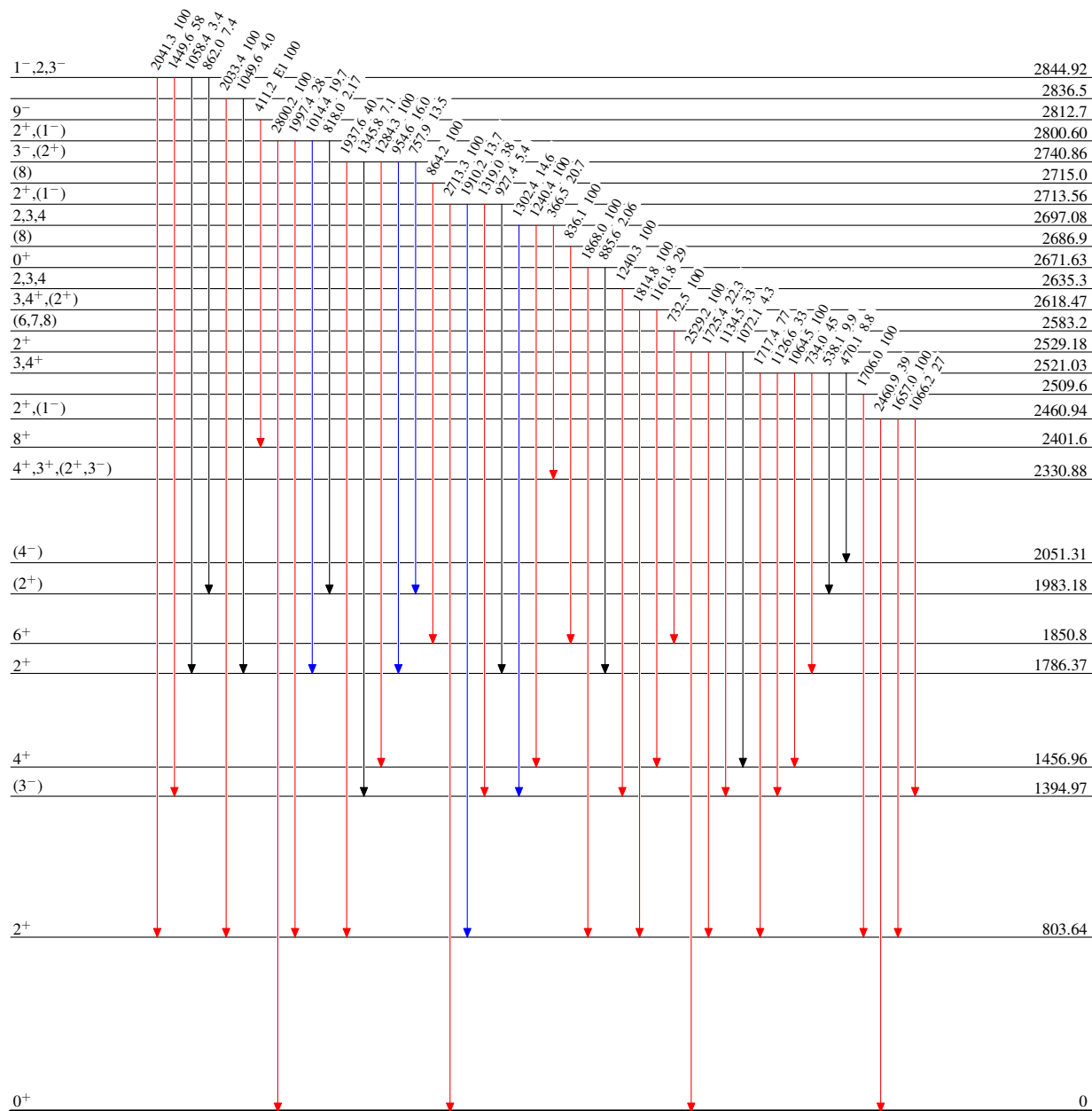


Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Type not specified

Legend

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



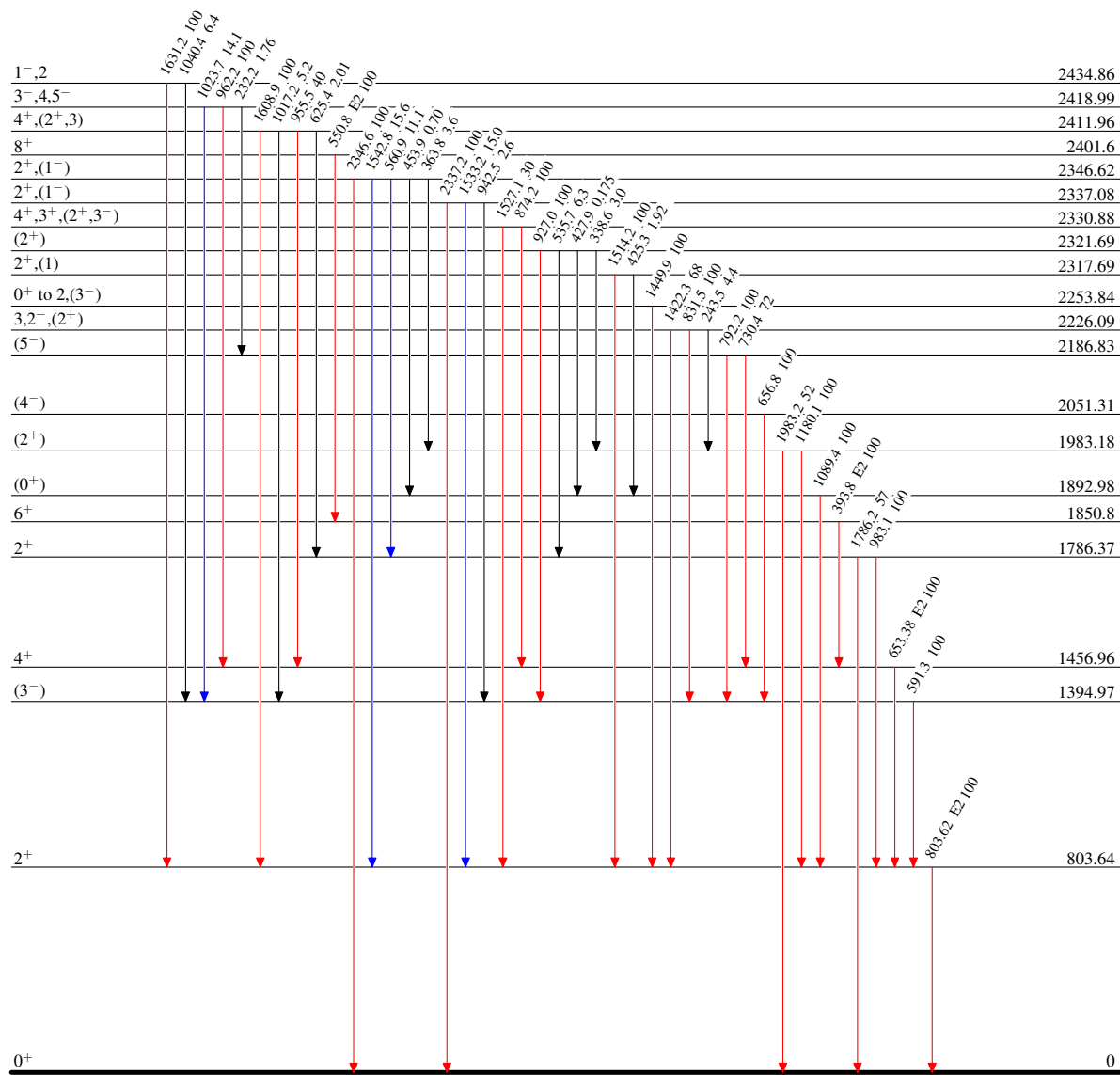
Adopted Levels, Gammas

Level Scheme (continued)

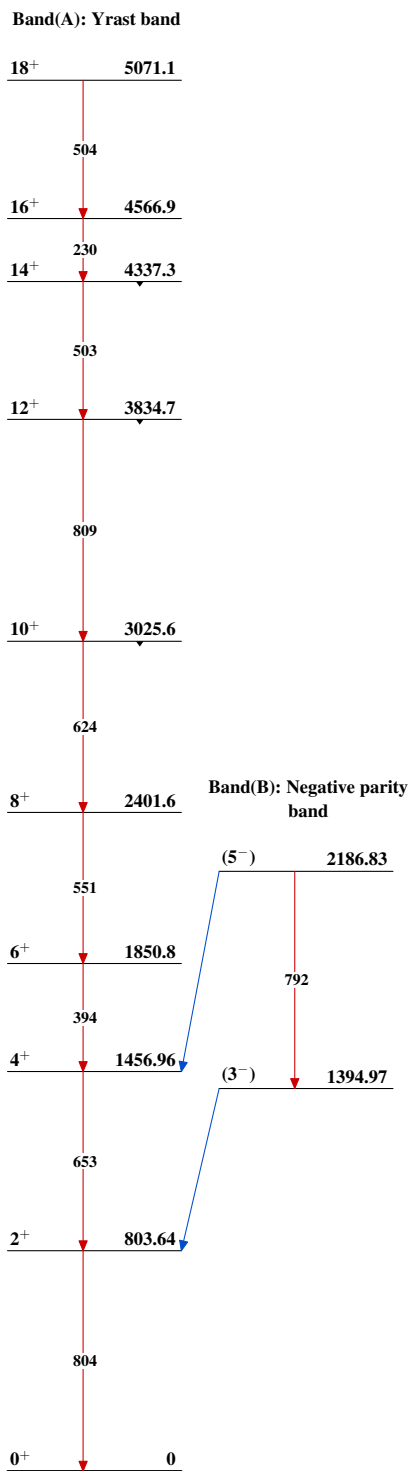
Intensities: Type not specified

Legend

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



Adopted Levels, Gammas


 $^{150}_{66}\text{Dy}_{84}$