

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS	113,715 (2012)	31-May-2011

$Q(\beta^-) = -8.25 \times 10^3$ 6; $S(n) = 1.19 \times 10^4$ 7; $S(p) = 7.5 \times 10^2$ 6; $Q(\alpha) = 2.55 \times 10^3$ 6 [2012Wa38](#)

Note: Current evaluation has used the following Q record -8250 53 $11.9e^+370$ 749 58 2554 53 [2011AuZZ](#).

[2003Au03](#): $Q(\beta^-) = -7800$ 210 (syst), $S(n) = 11450$ 320 (syst), $S(p) = 760$ 70, $Q(\alpha) = 2540$ 60, $Q(\alpha) = 2540$ 60.

$Q(\epsilon p) = 3606$ 59 (syst, [2011AuZZ](#)).

^{143}Tb produced in $^{112}\text{Sn}(^{35}\text{Cl}, 2n2p)$ $E = 191$ MeV ([1985OI01](#)). Others: [1987PI05](#), [1986Re11](#), [1982Gu07](#).

Measured atomic masses: [2007HeZV](#), [2007RaZZ](#), [2007Ra37](#).

 ^{143}Tb Levels

Band configurations are given according to quasiparticle labels in cranked shell model calculations: upper-case letters represent quasiproton orbitals (the lowest quasiproton energy levels of -ve parity ($\pi h_{11/2}$) are labelled A, B, C, and D; and those of +ve parity ($\pi g_{7/2}, \pi d_{5/2}$), E, F, G, and H) and lower-case letters represent quasineutron orbitals (the lowest quasineutron energy levels of -ve parity are labelled a, b, c, and d). See [1999Es07](#) for details.

Cross Reference (XREF) Flags

- A** $^{92}\text{Mo}(^{54}\text{Fe}, 3p\gamma)$
B ^{143}Dy ϵ decay (3.0 s)
C ^{143}Dy ϵ decay (5.6 s)

E(level)	J^π	$T_{1/2}$	XREF	Comments
0.0 @	(11/2 ⁻)	12 s 1	AB	$\% \epsilon + \% \beta^+ = 100$ $T_{1/2}$: from 1986Re11 .
0+x?		<21 s	C	J^π : ϵ decay to (9/2 ⁻ , 11/2 ⁻); syst for 11/2 ⁻ levels in Z=65 nuclei. $\% \epsilon + \% \beta^+ = ?$ J^π : (5/2 ⁺) from systematics of Z=65 nuclides (1997Au04). $T_{1/2}$: from analysis (by 1986Re11) of $T_{1/2}(45\gamma)$ from 45 level in ^{143}Gd . 1986Re11 suggest $T_{1/2} = 17$ s 4 (if there is no isomeric γ between (11/2 ⁻) and (5/2 ⁺) states and (5/2 ⁺) is directly populated in (HI,xn γ) reaction) or ≈ 12 s if there is isomeric γ between (11/2 ⁻) and (5/2 ⁺) states. However, there seems to be no evidence from recent in-beam gamma-ray experiments, that a 5/2 ⁺ state is populated.
142.8 3			B	
287.8 5			B	
520.75 @ 20	(15/2 ⁻)		AB	
534.48 24			A	
541.21 & 22	(13/2 ⁻)		AB	
788.16 ‡ 20	(13/2 ⁻)		A	
1072.3 3	(15/2 ⁻)		A	
1194.80 @ 25	(19/2 ⁻)		A	
1218.42 & 25	(17/2 ⁻)		A	
1423.80 ‡ 23	(17/2 ⁻)		A	
1535.6 3	(17/2 ⁻)		A	
1809.5 3	(17/2 ⁻)		A	
1811.6 ^a 4	(19/2 ⁻)		A	
1927.55 24	(19/2 ⁻)		A	
1966.8 @ 4	(23/2 ⁻)		A	
2025.8 & 4	(21/2 ⁻)		A	

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Adopted Levels, Gammas (continued) ^{143}Tb Levels (continued)

E(level)	J^π [†]	XREF	E(level)	J^π [†]	XREF	E(level)	J^π [†]	XREF
2092.6 [‡] 3	(21/2 ⁻)	A	3996.5 7		A	6362.7 ^b 6	(45/2 ⁻)	A
2146.8 ^d 3	(21/2 ⁺)	A	4212.1 9		A	6445.3 ^d 6	(45/2 ⁺)	A
2302.5 ^c 4	(23/2 ⁺)	A	4287.0 [@] 5	(35/2 ⁻)	A	6489.6 [‡] 6	(45/2 ⁻)	A
2310.9 ^e 4	(21/2 ⁺)	A	4332.4 ^a 5	(35/2 ⁻)	A	6773.8 ^a 6	(47/2 ⁻)	A
2399.7 ^a 4	(23/2 ⁻)	A	4351.8 ^g 9	(35/2 ⁺)	A	6895.4 8		A
2582.5 ^f 5	(23/2 ⁺)	A	4353.3 ^e 5	(33/2 ⁺)	A	6906.0 ^c 7	(47/2 ⁺)	A
2688.7 [‡] 4	(25/2 ⁻)	A	4373.5 ^d 5	(33/2 ⁺)	A	6938.1 [@] 6	(47/2 ⁻)	A
2705.5 ^d 5	(25/2 ⁺)	A	4600.3 5	(35/2 ⁻)	A	7032.8 [#] 6	(47/2 ⁻)	A
2745.0 [@] 4	(27/2 ⁻)	A	4663.9 ^c 5	(35/2 ⁺)	A	7090.4 ^g 12	(47/2 ⁺)	A
2786.7 5	(25/2 ⁺)	A	4751.6 ^f 9	(35/2 ⁺)	A	7336.8 8		A
2796.3 ^e 5	(25/2 ⁺)	A	4775.4 [‡] 5	(37/2 ⁻)	A	7342.0 ^b 7	(49/2 ⁻)	A
2834.4 ^a 4	(27/2 ⁻)	A	4789.9 [#] 5	(35/2 ⁻)	A	7519.3 [‡] 7	(49/2 ⁻)	A
2901.4 ^{&} 5	(25/2 ⁻)	A	4941.2 ^b 5	(37/2 ⁻)	A	7734.3 ^a 7	(51/2 ⁻)	A
2939.3 ^g 7	(27/2 ⁺)	A	5069.3 5	(35/2 ⁺)	A	7903.8 [#] 7	(51/2 ⁻)	A
3078.5 ^c 4	(27/2 ⁺)	A	5108.7 ^a 5	(39/2 ⁻)	A	7912.4 [@] 7	(51/2 ⁻)	A
3186.6 ^f 6	(27/2 ⁺)	A	5144.8 [@] 5	(39/2 ⁻)	A	7985.8 8	(53/2 ⁻)	A
3199.6 ^b 4	(29/2 ⁻)	A	5161.0 ^d 5	(37/2 ⁺)	A	8153.5 ^g 13	(51/2 ⁺)	A
3231.0 5	(27/2 ⁺)	A	5191.1 ^e 5	(37/2 ⁺)	A	8252.4 ^b 7	(53/2 ⁻)	A
3281.1 [‡] 4	(29/2 ⁻)	A	5196.2 ^g 9	(39/2 ⁺)	A	8409.0 10		A
3407.0 ^a 4	(31/2 ⁻)	A	5336.8 ^c 5	(39/2 ⁺)	A	8651.5 [‡] 8	(53/2 ⁻)	A
3468.1 5	(29/2 ⁺)	A	5447.9 [#] 5	(39/2 ⁻)	A	8750.9 ^a 8	(55/2 ⁻)	A
3503.6 [@] 4	(31/2 ⁻)	A	5553.6 ^b 6	(41/2 ⁻)	A	8789.9 11		A
3568.2 ^e 5	(29/2 ⁺)	A	5598.8 [‡] 5	(41/2 ⁻)	A	8916.5 11		A
3588.6 ^d 5	(29/2 ⁺)	A	5721.0 ^d 6	(41/2 ⁺)	A	8944.1 [#] 8	(55/2 ⁻)	A
3604.6 ^g 8	(31/2 ⁺)	A	5804.8 ^a 6	(43/2 ⁻)	A	8970.8 [@] 9	(55/2 ⁻)	A
3785.3 5		A	5989.3 ^c 6	(43/2 ⁺)	A	9330.1 ^g 14	(55/2 ⁺)	A
3797.6 ^c 5	(31/2 ⁺)	A	6033.4 [@] 6	(43/2 ⁻)	A	9430.5 12		A
3886.1 ^b 4	(33/2 ⁻)	A	6115.9 ^g 11	(43/2 ⁺)	A	10126.1 [@] 10	(59/2 ⁻)	A
3919.5 ^f 8	(31/2 ⁺)	A	6123.8 6	(43/2 ⁺)	A			
3979.5 [‡] 5	(33/2 ⁻)	A	6230.5 [#] 6	(43/2 ⁻)	A			

[†] As proposed by 1999Es07, based on $\gamma\gamma(\theta)$ (DCO) data and band assignments, assuming the g.s. as $h_{11/2}$ state. The parentheses are added by the evaluator, since the g.s. J^π and J^π of other bandheads do not seem well established from available data.

[‡] Band(A): Band based on 13/2⁻, $\alpha=+1/2$.

[#] Band(a): Band based on 35/2⁻, $\alpha=-1/2$.

[@] Band(B): $\pi h_{11/2}$ favored band, $\alpha=-1/2$.

[&] Band(b): $\pi h_{11/2}$ unfavored band, $\alpha=+1/2$.

^a Band(C): Band based on 19/2⁻, $\alpha=-1/2$; configuration=Aab. At higher spins there is a crossing attributed to βc and AD quasiprotons.

^b Band(c): Band based on 29/2⁻, $\alpha=+1/2$; configuration=Bab.

^c Band(D): Band based on 23/2⁺, $\alpha=-1/2$; configuration=ABEab.

^d Band(d): Band based on 21/2⁺, $\alpha=+1/2$; configuration=ABFab.

^e Band(E): Band based on 21/2⁺, $\alpha=+1/2$; configuration=ABF or abG.

^f Band(e): Band based on 23/2⁺, $\alpha=-1/2$; configuration=ABH or abH.

^g Band(F): Band based on 27/2⁺, $\alpha=-1/2$; configuration=ABF.

Adopted Levels, Gammas (continued)

$\gamma(^{143}\text{Tb})$					
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
142.8		142.8 3	100	0.0	(11/2 ⁻)
287.8		145.0 3	100	142.8	
520.75	(15/2 ⁻)	520.8 3	100	0.0	(11/2 ⁻)
534.48		534.5 3	100	0.0	(11/2 ⁻)
541.21	(13/2 ⁻)	541.1 3	100	0.0	(11/2 ⁻)
788.16	(13/2 ⁻)	253.7 3	63 3	534.48	
		267.3 3	38.0 17	520.75	(15/2 ⁻)
		788.2 3	100 6	0.0	(11/2 ⁻)
1072.3	(15/2 ⁻)	530.8 3	100	541.21	(13/2 ⁻)
1194.80	(19/2 ⁻)	674.0 3	100	520.75	(15/2 ⁻)
1218.42	(17/2 ⁻)	677.2 3	100 3	541.21	(13/2 ⁻)
		697.7 3	44.3 16	520.75	(15/2 ⁻)
1423.80	(17/2 ⁻)	229.0 5	11.0 5	1194.80	(19/2 ⁻)
		635.6 3	100 3	788.16	(13/2 ⁻)
		882.7 5	14.2 8	541.21	(13/2 ⁻)
		903.1 3	61.7 17	520.75	(15/2 ⁻)
1535.6	(17/2 ⁻)	994.6 3	100 7	541.21	(13/2 ⁻)
		1014.8 3	86 7	520.75	(15/2 ⁻)
1809.5	(17/2 ⁻)	591.2 5	5.8 7	1218.42	(17/2 ⁻)
		614.6 5	9.0 7	1194.80	(19/2 ⁻)
		736.6 5	7.4 5	1072.3	(15/2 ⁻)
		1288.9 3	100 4	520.75	(15/2 ⁻)
1811.6	(19/2 ⁻)	617.2 5	55 4	1194.80	(19/2 ⁻)
		739.1 3	100 8	1072.3	(15/2 ⁻)
1927.55	(19/2 ⁻)	118.1 3	14.1 5	1809.5	(17/2 ⁻)
		392.0 3	8.2 3	1535.6	(17/2 ⁻)
		503.7 3	13.4 5	1423.80	(17/2 ⁻)
		709.1 3	100 3	1218.42	(17/2 ⁻)
		733.0 3	40.3 16	1194.80	(19/2 ⁻)
1966.8	(23/2 ⁻)	771.9 3	100	1194.80	(19/2 ⁻)
2025.8	(21/2 ⁻)	807.4 3	100	1218.42	(17/2 ⁻)
2092.6	(21/2 ⁻)	668.9 3	100 4	1423.80	(17/2 ⁻)
		897.8 3	37.0 12	1194.80	(19/2 ⁻)
2146.8	(21/2 ⁺)	219.5 3	100 3	1927.55	(19/2 ⁻)
		951.7 3	19.0 6	1194.80	(19/2 ⁻)
2302.5	(23/2 ⁺)	155.7 3	100	2146.8	(21/2 ⁺)
2310.9	(21/2 ⁺)	1116.0 3	100	1194.80	(19/2 ⁻)
2399.7	(23/2 ⁻)	588.2 3	100	1811.6	(19/2 ⁻)
2582.5	(23/2 ⁺)	271.6 5	100 5	2310.9	(21/2 ⁺)
		280.0 5	69.5 25	2302.5	(23/2 ⁺)
2688.7	(25/2 ⁻)	288.9 5	8.0 4	2399.7	(23/2 ⁻)
		596.2 3	100 4	2092.6	(21/2 ⁻)
		721.9 3	31.4 12	1966.8	(23/2 ⁻)
2705.5	(25/2 ⁺)	403.0 3	100	2302.5	(23/2 ⁺)
2745.0	(27/2 ⁻)	778.3 3	100	1966.8	(23/2 ⁻)
2786.7	(25/2 ⁺)	484.2 3	100	2302.5	(23/2 ⁺)
2796.3	(25/2 ⁺)	485.3 3	100	2310.9	(21/2 ⁺)
2834.4	(27/2 ⁻)	89.4 5	2.07 9	2745.0	(27/2 ⁻)
		146.0 5	0.47 4	2688.7	(25/2 ⁻)
		434.8 5	4.18 17	2399.7	(23/2 ⁻)
		867.5 3	100.0 4	1966.8	(23/2 ⁻)
2901.4	(25/2 ⁻)	875.6 3	100	2025.8	(21/2 ⁻)
2939.3	(27/2 ⁺)	636.8 5	100	2302.5	(23/2 ⁺)
3078.5	(27/2 ⁺)	776.1 3	100	2302.5	(23/2 ⁺)
3186.6	(27/2 ⁺)	604.1 3	100	2582.5	(23/2 ⁺)

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Adopted Levels, Gammas (continued) $\gamma(^{143}\text{Tb})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
3199.6	(29/2 ⁻)	365.2 3	100 3	2834.4	(27/2 ⁻)
		455.1 3	8.9 4	2745.0	(27/2 ⁻)
3231.0	(27/2 ⁺)	152.7 5	38.9 13	3078.5	(27/2 ⁺)
		928.6 3	100 4	2302.5	(23/2 ⁺)
3281.1	(29/2 ⁻)	536.1 3	31.5 9	2745.0	(27/2 ⁻)
		592.5 3	100 3	2688.7	(25/2 ⁻)
3407.0	(31/2 ⁻)	207.7 3	100 3	3199.6	(29/2 ⁻)
		572.5 3	72.7 20	2834.4	(27/2 ⁻)
		661.7 3	57.6 20	2745.0	(27/2 ⁻)
3468.1	(29/2 ⁺)	389.6 3	100	3078.5	(27/2 ⁺)
3503.6	(31/2 ⁻)	758.5 3	100	2745.0	(27/2 ⁻)
3568.2	(29/2 ⁺)	771.7 3	100	2796.3	(25/2 ⁺)
3588.6	(29/2 ⁺)	510.0 3	100 5	3078.5	(27/2 ⁺)
		801.7 5	16.8 11	2786.7	(25/2 ⁺)
		883.0 3	82 3	2705.5	(25/2 ⁺)
3604.6	(31/2 ⁺)	665.3 5	100	2939.3	(27/2 ⁺)
3785.3		585.7 3	100	3199.6	(29/2 ⁻)
3797.6	(31/2 ⁺)	566.8 3	78 4	3231.0	(27/2 ⁺)
		719.1 3	100 4	3078.5	(27/2 ⁺)
3886.1	(33/2 ⁻)	479.2 3	100 3	3407.0	(31/2 ⁻)
		686.6 3	6.6 3	3199.6	(29/2 ⁻)
3919.5	(31/2 ⁺)	732.9 5	100	3186.6	(27/2 ⁺)
3979.5	(33/2 ⁻)	475.9 3	9.3 4	3503.6	(31/2 ⁻)
		698.4 3	100 3	3281.1	(29/2 ⁻)
3996.5		211.2 5	100	3785.3	
4212.1		215.6 5	100	3996.5	
4287.0	(35/2 ⁻)	307.7 5	4.9 3	3979.5	(33/2 ⁻)
		783.3 3	100 4	3503.6	(31/2 ⁻)
		880.3 5	8.9 5	3407.0	(31/2 ⁻)
4332.4	(35/2 ⁻)	446.4 3	100 3	3886.1	(33/2 ⁻)
		925.3 3	77 3	3407.0	(31/2 ⁻)
4351.8	(35/2 ⁺)	747.2 3	100	3604.6	(31/2 ⁺)
4353.3	(33/2 ⁺)	785.0 3	100	3568.2	(29/2 ⁺)
4373.5	(33/2 ⁺)	575.8 3	28.5 10	3797.6	(31/2 ⁺)
		784.8 3	100.0 25	3588.6	(29/2 ⁺)
		905.3 3	48.8 25	3468.1	(29/2 ⁺)
4600.3	(35/2 ⁻)	714.2 3	100 5	3886.1	(33/2 ⁻)
		1193.5 3	80 5	3407.0	(31/2 ⁻)
4663.9	(35/2 ⁺)	290.8 3	48.9 15	4373.5	(33/2 ⁺)
		866.5 3	100 4	3797.6	(31/2 ⁺)
4751.6	(35/2 ⁺)	832.1 3	100	3919.5	(31/2 ⁺)
4775.4	(37/2 ⁻)	795.9 3	100	3979.5	(33/2 ⁻)
4789.9	(35/2 ⁻)	810.5 3	100	3979.5	(33/2 ⁻)
4941.2	(37/2 ⁻)	341.0 3	31.5 10	4600.3	(35/2 ⁻)
		608.9 3	45.0 17	4332.4	(35/2 ⁻)
		1054.9 3	100 3	3886.1	(33/2 ⁻)
5069.3	(35/2 ⁺)	1183.4 5	100	3886.1	(33/2 ⁻)
5108.7	(39/2 ⁻)	167.5 3	61.5 15	4941.2	(37/2 ⁻)
		776.3 3	100 3	4332.4	(35/2 ⁻)
5144.8	(39/2 ⁻)	369.4 5	7.3 4	4775.4	(37/2 ⁻)
		857.7 3	100 4	4287.0	(35/2 ⁻)
5161.0	(37/2 ⁺)	497.3 3	70 3	4663.9	(35/2 ⁺)
		787.3 3	100 4	4373.5	(33/2 ⁺)
5191.1	(37/2 ⁺)	122.1 5	16.3 5	5069.3	(35/2 ⁺)
		527.5 3	100 3	4663.9	(35/2 ⁺)

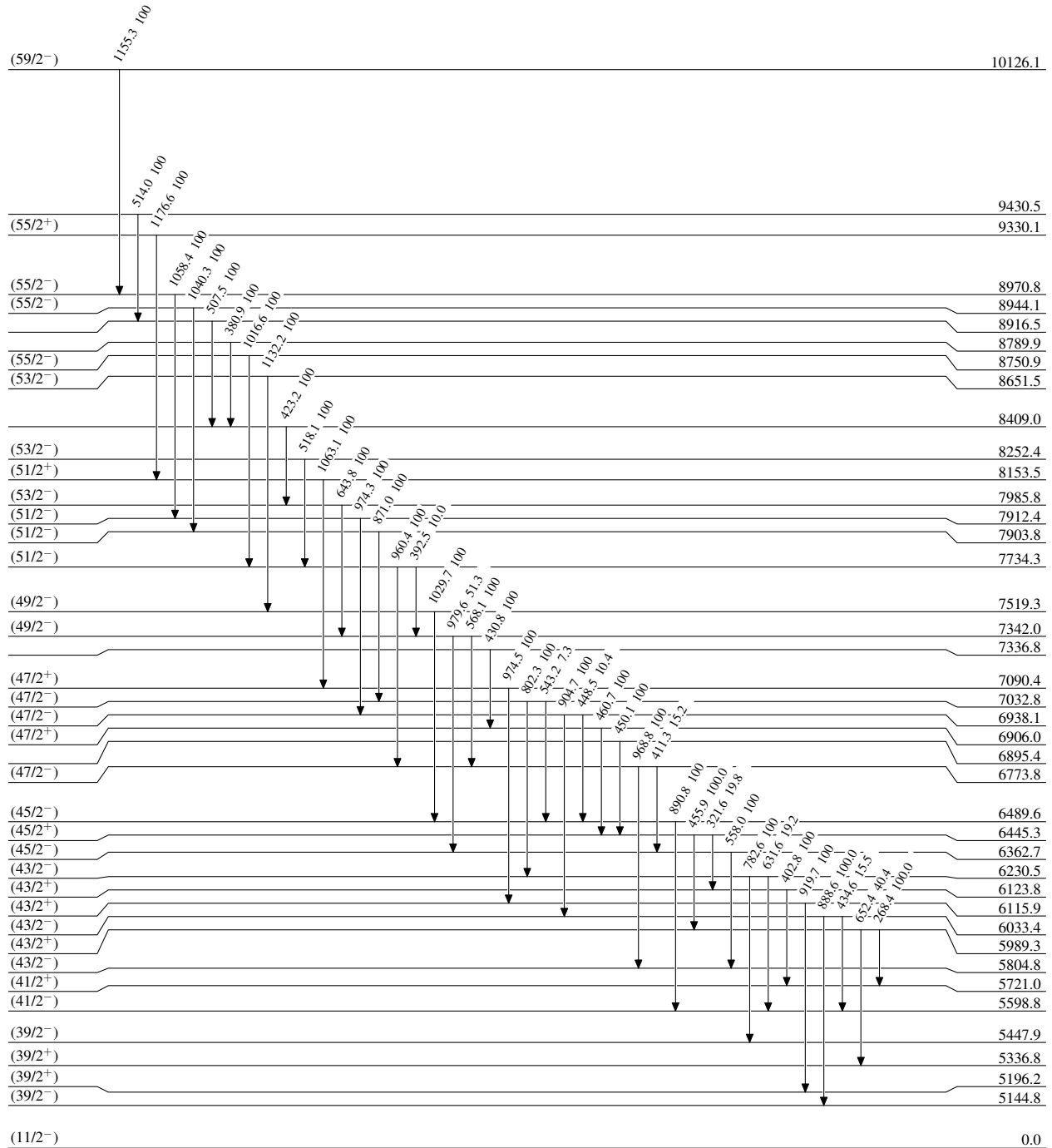
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Adopted Levels, Gammas (continued) $\gamma(^{143}\text{Tb})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
5191.1	(37/2 ⁺)	817.4 3	92 3	4373.5 (33/2 ⁺)	
		837.7 3	54.9 22	4353.3 (33/2 ⁺)	
5196.2	(39/2 ⁺)	844.4 3	100	4351.8 (35/2 ⁺)	
5336.8	(39/2 ⁺)	145.8 3	100 3	5191.1 (37/2 ⁺)	
		175.7 3	57.2 17	5161.0 (37/2 ⁺)	
5447.9	(39/2 ⁻)	658.0 3	97 4	4789.9 (35/2 ⁻)	
		672.5 3	100 8	4775.4 (37/2 ⁻)	
5553.6	(41/2 ⁻)	444.8 3	100	5108.7 (39/2 ⁻)	
5598.8	(41/2 ⁻)	823.4 3	100	4775.4 (37/2 ⁻)	
5721.0	(41/2 ⁺)	384.3 3	100	5336.8 (39/2 ⁺)	
5804.8	(43/2 ⁻)	251.2 3	55.1 15	5553.6 (41/2 ⁻)	
		696.2 3	100 3	5108.7 (39/2 ⁻)	
5989.3	(43/2 ⁺)	268.4 3	100.0 21	5721.0 (41/2 ⁺)	
		652.4 3	40.4 21	5336.8 (39/2 ⁺)	
6033.4	(43/2 ⁻)	434.6 5	15.5 7	5598.8 (41/2 ⁻)	
		888.6 3	100.0 23	5144.8 (39/2 ⁻)	
6115.9	(43/2 ⁺)	919.7 5	100	5196.2 (39/2 ⁺)	
6123.8	(43/2 ⁺)	402.8 3	100	5721.0 (41/2 ⁺)	
6230.5	(43/2 ⁻)	631.6 5	19.2 15	5598.8 (41/2 ⁻)	
		782.6 3	100 8	5447.9 (39/2 ⁻)	
6362.7	(45/2 ⁻)	558.0 3	100	5804.8 (43/2 ⁻)	
6445.3	(45/2 ⁺)	321.6 5	19.8 7	6123.8 (43/2 ⁺)	
		455.9 3	100.0 23	5989.3 (43/2 ⁺)	
6489.6	(45/2 ⁻)	890.8 3	100	5598.8 (41/2 ⁻)	
6773.8	(47/2 ⁻)	411.3 5	15.2 5	6362.7 (45/2 ⁻)	
		968.8 3	100 3	5804.8 (43/2 ⁻)	
6895.4		450.1 5	100	6445.3 (45/2 ⁺)	
6906.0	(47/2 ⁺)	460.7 3	100	6445.3 (45/2 ⁺)	
6938.1	(47/2 ⁻)	448.5 5	10.4 7	6489.6 (45/2 ⁻)	
		904.7 3	100 4	6033.4 (43/2 ⁻)	
7032.8	(47/2 ⁻)	543.2 5	7.3 14	6489.6 (45/2 ⁻)	
		802.3 3	100 5	6230.5 (43/2 ⁻)	
7090.4	(47/2 ⁺)	974.5 5	100	6115.9 (43/2 ⁺)	
7336.8		430.8 3	100	6906.0 (47/2 ⁺)	
7342.0	(49/2 ⁻)	568.1 3	100 3	6773.8 (47/2 ⁻)	
		979.6 5	51.3 21	6362.7 (45/2 ⁻)	
7519.3	(49/2 ⁻)	1029.7 3	100	6489.6 (45/2 ⁻)	
7734.3	(51/2 ⁻)	392.5 5	10.0 7	7342.0 (49/2 ⁻)	
		960.4 3	100 3	6773.8 (47/2 ⁻)	
7903.8	(51/2 ⁻)	871.0 3	100	7032.8 (47/2 ⁻)	
7912.4	(51/2 ⁻)	974.3 3	100	6938.1 (47/2 ⁻)	
7985.8	(53/2 ⁻)	643.8 5	100	7342.0 (49/2 ⁻)	
8153.5	(51/2 ⁺)	1063.1 5	100	7090.4 (47/2 ⁺)	
8252.4	(53/2 ⁻)	518.1 3	100	7734.3 (51/2 ⁻)	
8409.0		423.2 5	100	7985.8 (53/2 ⁻)	
8651.5	(53/2 ⁻)	1132.2 5	100	7519.3 (49/2 ⁻)	
8750.9	(55/2 ⁻)	1016.6 5	100	7734.3 (51/2 ⁻)	
8789.9		380.9 5	100	8409.0	
8916.5		507.5 5	100	8409.0	
8944.1	(55/2 ⁻)	1040.3 3	100	7903.8 (51/2 ⁻)	
8970.8	(55/2 ⁻)	1058.4 5	100	7912.4 (51/2 ⁻)	
9330.1	(55/2 ⁺)	1176.6 5	100	8153.5 (51/2 ⁺)	
9430.5		514.0 5	100	8916.5	
10126.1	(59/2 ⁻)	1155.3 5	100	8970.8 (55/2 ⁻)	

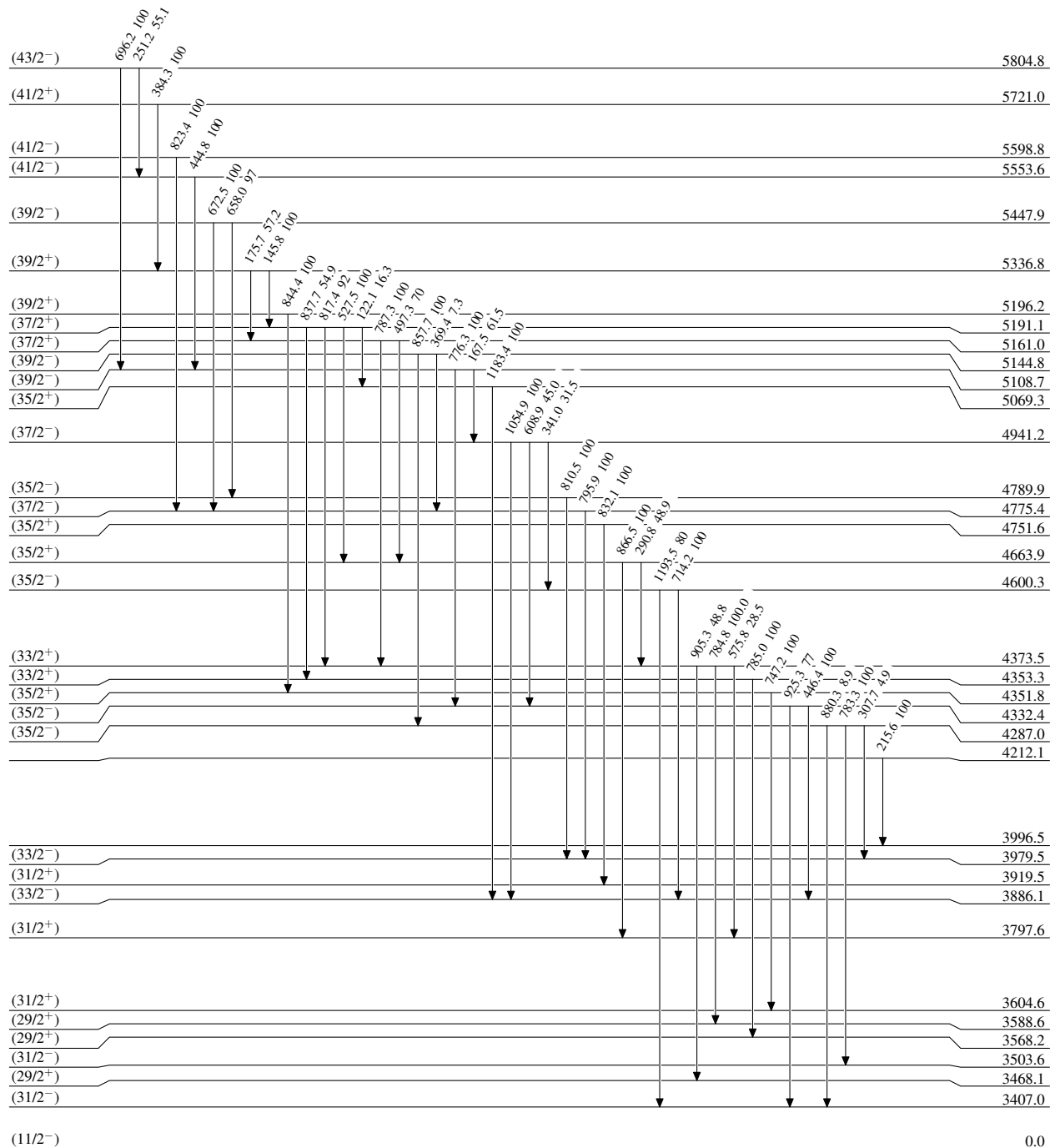
Adopted Levels, GammasLevel Scheme

Intensities: Relative photon branching from each level



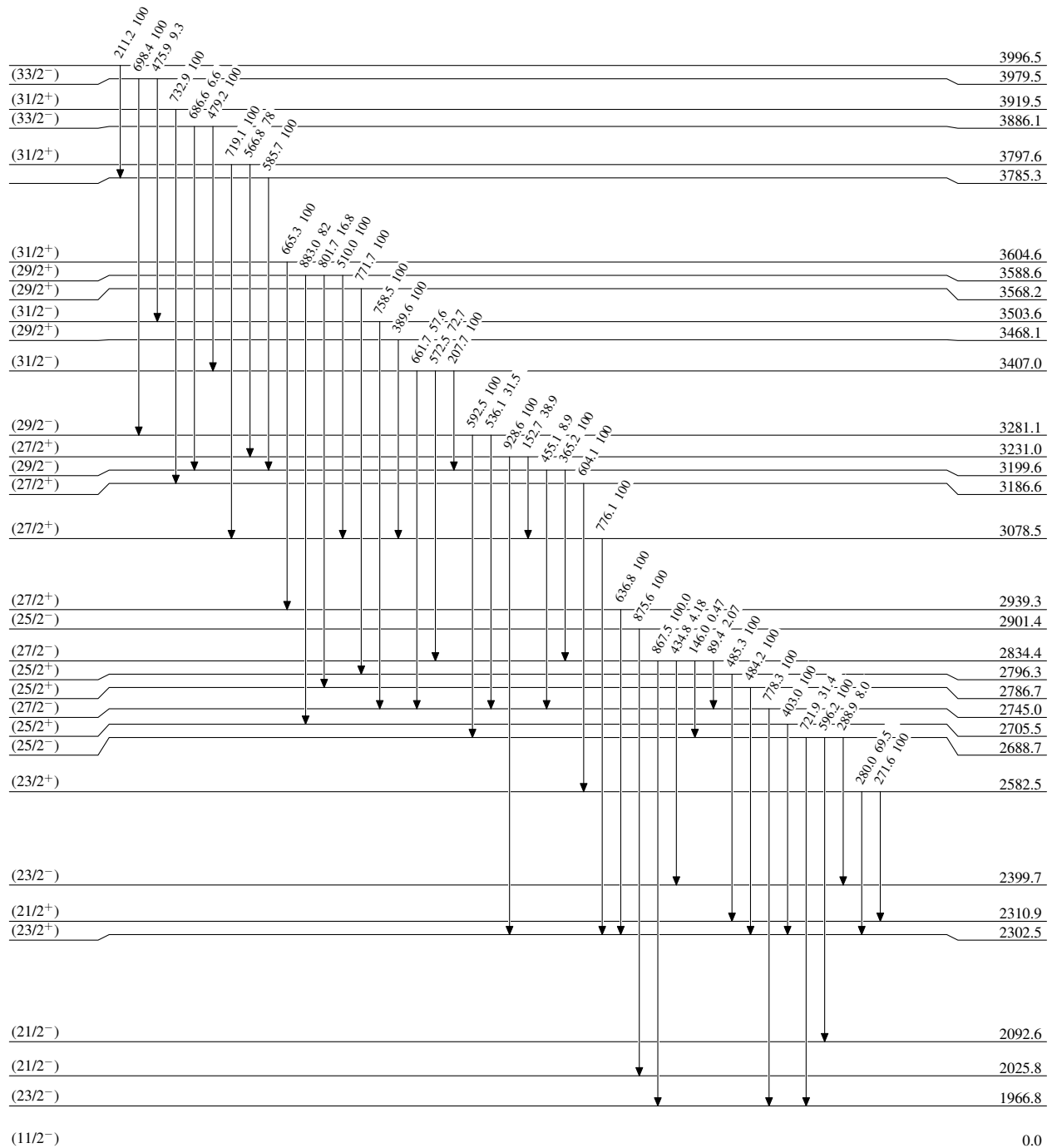
Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Relative photon branching from each level



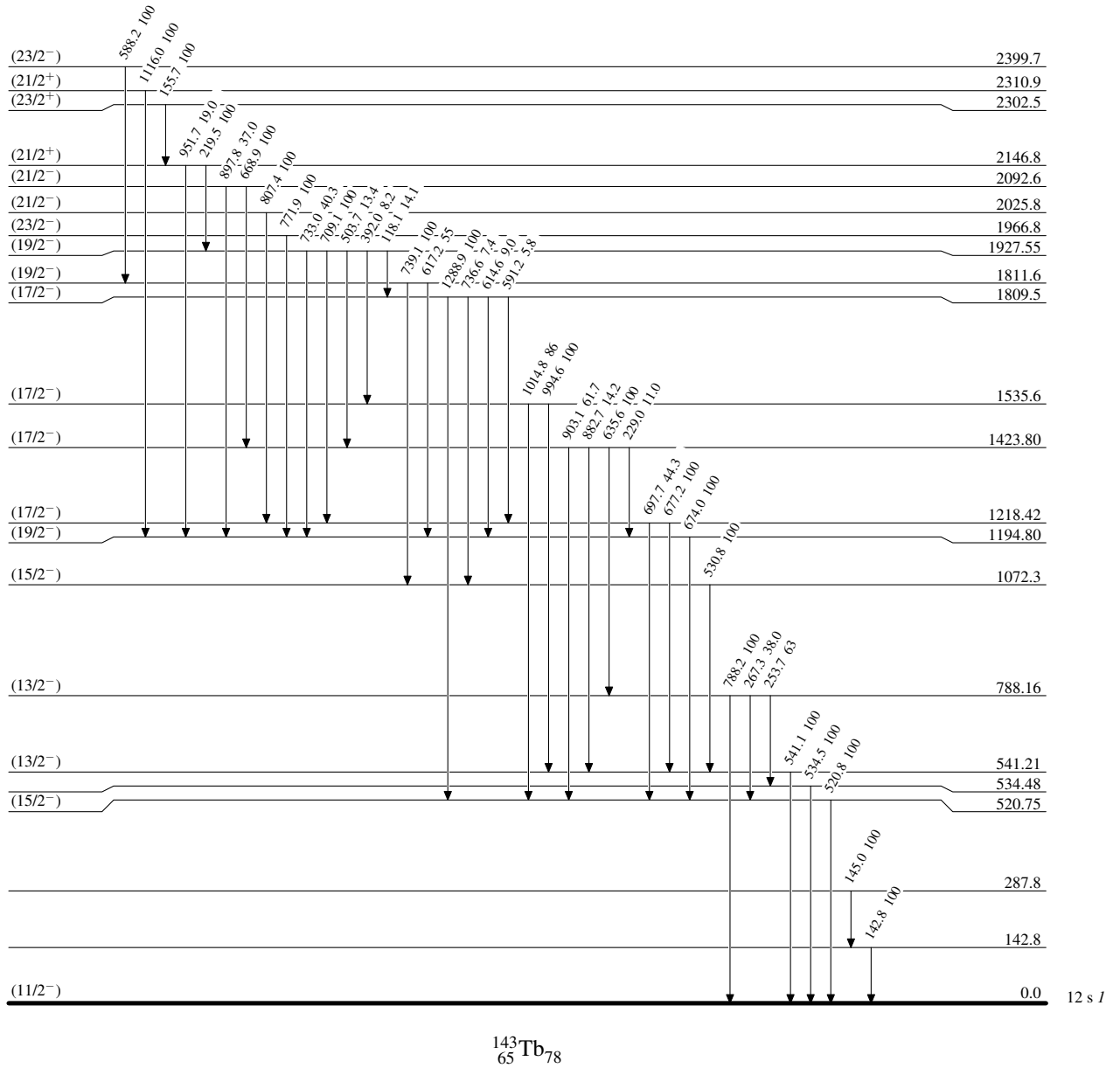
Adopted Levels, Gammas**Level Scheme (continued)**

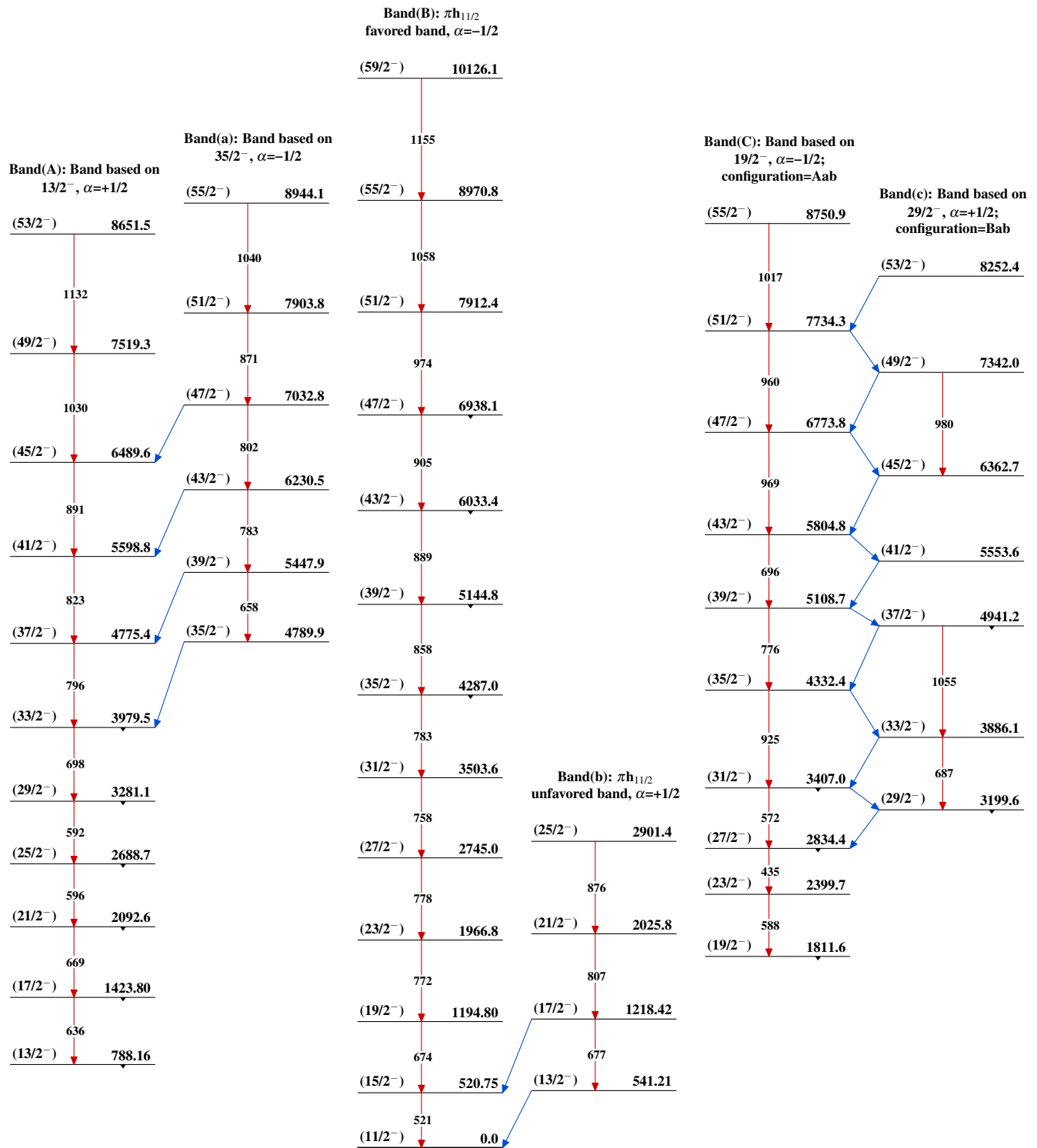
Intensities: Relative photon branching from each level

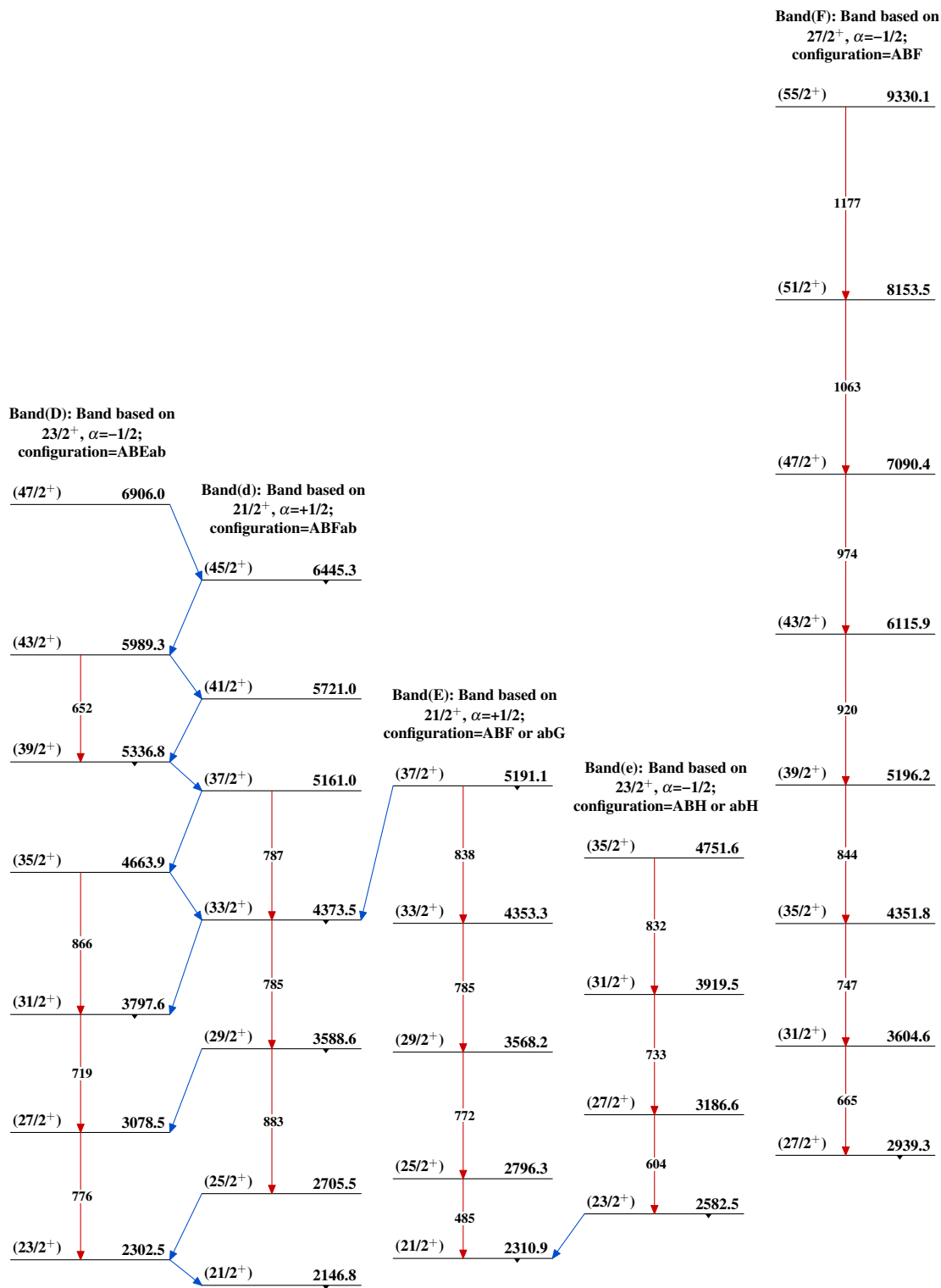


Adopted Levels, GammasLevel Scheme (continued)

Intensities: Relative photon branching from each level



Adopted Levels, Gammas

Adopted Levels, Gammas (continued) $^{143}_{65}\text{Tb}_{78}$