^{92}Mo(^{54}Fe,3pγ) 1999Es07

History

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

1999Es07: E=240 MeV. Measured Eγ, Iγ, $\gamma\gamma$, $\gamma\gamma(\theta)$(DCO) using GASP array of 40 Compton-suppressed HPGe detectors and an 80-element BGO ball.
Other: 1987Go35: E=260 MeV. 772-674-521 ΔJ=2 cascade from 23/2$^-$ to 11/2$^-$ reported.

^{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 (πh11/2) are labelled A, B, C, and D; and those of +ve parity (πg7/2,πd5/2), 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.

E(level)†	J$^\pi$‡	E(level)†	J$^\pi$‡	E(level)†	J$^\pi$‡	E(level)†	J$^\pi$‡
0.0[&]	11/2$^-$	2834.4[b] 4	27/2$^-$	4600.3 5	35/2$^-$	6773.8[b] 6	47/2$^-$
520.75[&] 20	15/2$^-$	2901.4[a] 5	(25/2$^-$)	4663.9[d] 5	35/2$^+$	6895.4 8	
534.48 24		2939.3[h] 7	27/2$^+$	4751.6[g] 9	(35/2$^+$)	6906.0[d] 7	47/2$^+$
541.21[a] 22	13/2$^-$	3078.5[d] 4	27/2$^+$	4775.4[#] 5	37/2$^-$	6938.1[&] 6	47/2$^-$
788.16[#] 20	13/2$^-$	3186.6[g] 6	(27/2$^+$)	4789.9[@] 5	35/2$^-$	7032.8[@] 6	47/2$^-$
1072.3 3	15/2$^-$	3199.6[c] 4	29/2$^-$	4941.2[c] 5	37/2$^-$	7090.4[h] 12	(47/2$^+$)
1194.80[&] 25	19/2$^-$	3231.0 5	(27/2$^+$)	5069.3 5	(35/2$^+$)	7336.8 8	
1218.42[a] 25	17/2$^-$	3281.1[#] 4	29/2$^-$	5108.7[b] 5	39/2$^-$	7342.0[c] 7	49/2$^-$
1423.80[#] 23	17/2$^-$	3407.0[b] 4	31/2$^-$	5144.8[&] 5	39/2$^-$	7519.3[#] 7	49/2$^-$
1535.6 3	17/2$^-$	3468.1 5	29/2$^+$	5161.0[e] 5	37/2$^+$	7734.3[b] 7	51/2$^-$
1809.5 3	17/2$^-$	3503.6[&] 4	31/2$^-$	5191.1[f] 5	37/2$^+$	7903.8[@] 7	51/2$^-$
1811.6[b] 4	(19/2$^-$)	3568.2[f] 5	(29/2$^+$)	5196.2[h] 9	39/2$^+$	7912.4[&] 7	51/2$^-$
1927.55 24	19/2$^-$	3588.6[e] 5	29/2$^+$	5336.8[d] 5	39/2$^+$	7985.8 8	53/2$^-$
1966.8[&] 4	23/2$^-$	3604.6[h] 8	31/2$^+$	5447.9[@] 5	39/2$^-$	8153.5[h] 13	(51/2$^+$)
2025.8[a] 4	21/2$^-$	3785.3 5		5553.6[c] 6	41/2$^-$	8252.4[c] 7	(53/2$^-$)
2092.6[#] 3	21/2$^-$	3797.6[d] 5	31/2$^+$	5598.8[#] 5	41/2$^-$	8409.0 10	
2146.8[e] 3	21/2$^+$	3886.1[c] 4	33/2$^-$	5721.0[e] 6	41/2$^+$	8651.5[#] 8	53/2$^-$
2302.5[d] 4	23/2$^+$	3919.5[g] 8	(31/2$^+$)	5804.8[b] 6	43/2$^-$	8750.9[b] 8	55/2$^-$
2310.9[f] 4	21/2$^+$	3979.5[#] 5	33/2$^-$	5989.3[d] 6	43/2$^+$	8789.9 11	
2399.7[b] 4	23/2$^-$	3996.5 7		6033.4[&] 6	43/2$^-$	8916.5 11	
2582.5[g] 5	23/2$^+$	4212.1 9		6115.9[h] 11	43/2$^+$	8944.1[@] 8	55/2$^-$
2688.7[#] 4	25/2$^-$	4287.0[&] 5	35/2$^-$	6123.8 6	43/2$^+$	8970.8[&] 9	55/2$^-$
2705.5[e] 5	25/2$^+$	4332.4[b] 5	35/2$^-$	6230.5[@] 6	43/2$^-$	9330.1[h] 14	(55/2$^+$)
2745.0[&] 4	27/2$^-$	4351.8[h] 9	35/2$^+$	6362.7[c] 6	45/2$^-$	9430.5 12	
2786.7 5	25/2$^+$	4353.3[f] 5	(33/2$^+$)	6445.3[e] 6	45/2$^+$	10126.1[&] 10	(59/2$^-$)
2796.3[f] 5	(25/2$^+$)	4373.5[e] 5	33/2$^+$	6489.6[#] 6	45/2$^-$		

† From least-squares fit to Eγ's (by evaluator), assuming Δ(Eγ)=0.3 for I$\gamma\geq$10 and 0.5 for Iγ<10, based on authors' statement about uncertainty for Eγ.
‡ As proposed by 1999Es07, based on $\gamma\gamma(\theta)$(DCO) data and band assignments, assuming the g.s. as h$_{11/2}$ state.
# Band(A): Band based on 13/2$^-$, α=+1/2.
@ Band(a): Band based on 35/2$^-$, α=−1/2.
& Band(B): πh$_{11/2}$ favored band, α=−1/2.

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^{92}Mo(^{54}Fe,3pγ) 1999Es07 (continued)

^{143}Tb Levels (continued)

[a] Band(b): $\pi h_{11/2}$ unfavored band, α=+1/2.
[b] Band(C): Band based on 19/2$^-$, α=−1/2; configuration=Aab. At higher spins there is a crossing attributed to BC and AD quasiprotons.
[c] Band(c): Band based on 29/2$^-$, α=+1/2; configuration=Bab.
[d] Band(D): Band based on 23/2$^+$, α=−1/2; configuration=ABEab.
[e] Band(d): Band based on 21/2$^+$, α=+1/2; configuration=ABFab.
[f] Band(E): Band based on 21/2$^+$, α=+1/2; configuration=abg or abG.
[g] Band(e): Band based on 23/2$^+$, α=−1/2; configuration=abh or abH.
[h] Band(F): Band based on 27/2$^+$, α=−1/2; configuration=abf.

γ(^{143}Tb)

Multipolarities are implied as ΔJ=2, stretched quadrupole for R(DCO)=1; ΔJ=1, dipole for R(DCO)=0.55; and ΔJ=0, dipole for R(DCO)=1.07 for the geometry and gates used by 1999Es07.

E_γ	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Comments
89.4 *5*	4.8 *2*	2834.4	27/2$^-$	2745.0	27/2$^-$	R(DCO)=0.73 *19*.
118.1 *3*	17.5 *6*	1927.55	19/2$^-$	1809.5	17/2$^-$	R(DCO)=0.57 *10*.
122.1 *5*	3.0 *1*	5191.1	37/2$^+$	5069.3	(35/2$^+$)	
145.8 *3*	29 *1*	5336.8	39/2$^+$	5191.1	37/2$^+$	R(DCO)=0.61 *5*.
146.0 *5*	1.1 *1*	2834.4	27/2$^-$	2688.7	25/2$^-$	
152.7 *5*	6.1 *2*	3231.0	(27/2$^+$)	3078.5	27/2$^+$	
155.7 *3*	101 *3*	2302.5	23/2$^+$	2146.8	21/2$^+$	R(DCO)=0.56 *2*.
167.5 *3*	40 *1*	5108.7	39/2$^-$	4941.2	37/2$^-$	R(DCO)=0.57 *4*.
175.7 *3*	16.6 *5*	5336.8	39/2$^+$	5161.0	37/2$^+$	R(DCO)=0.53 *3*.
207.7 *3*	99 *3*	3407.0	31/2$^-$	3199.6	29/2$^-$	R(DCO)=0.61 *1*.
211.2 *5*	3.0 *2*	3996.5		3785.3		
215.6 *5*	2.4 *1*	4212.1		3996.5		
219.5 *3*	174 *5*	2146.8	21/2$^+$	1927.55	19/2$^-$	R(DCO)=0.56 *2*.
229.0 *5*	6.6 *3*	1423.80	17/2$^-$	1194.80	19/2$^-$	R(DCO)=0.63 *10*.
251.2 *3*	38 *1*	5804.8	43/2$^-$	5553.6	41/2$^-$	R(DCO)=0.55 *3*.
253.7 *3*	22 *1*	788.16	13/2$^-$	534.48		R(DCO)=0.51 *5*.
267.3 *3*	13.3 *6*	788.16	13/2$^-$	520.75	15/2$^-$	R(DCO)=0.72 *8*.
268.4 *3*	47 *1*	5989.3	43/2$^+$	5721.0	41/2$^+$	R(DCO)=0.57 *2*.
271.6 *5*	8.2 *4*	2582.5	23/2$^+$	2310.9	21/2$^+$	R(DCO)=0.77 *13*.
280.0 *5*	5.7 *2*	2582.5	23/2$^+$	2302.5	23/2$^+$	R(DCO)=0.72 *15*.
288.9 *5*	6.9 *3*	2688.7	25/2$^-$	2399.7	23/2$^-$	
290.8 *3*	13.2 *4*	4663.9	35/2$^+$	4373.5	33/2$^+$	R(DCO)=0.52 *8*.
307.7 *5*	3.7 *2*	4287.0	35/2$^-$	3979.5	33/2$^-$	
321.6 *5*	8.7 *3*	6445.3	45/2$^+$	6123.8	43/2$^+$	R(DCO)=0.52 *11*.
341.0 *3*	18.9 *6*	4941.2	37/2$^-$	4600.3	35/2$^-$	R(DCO)=0.71 *6*.
365.2 *3*	171 *5*	3199.6	29/2$^-$	2834.4	27/2$^-$	R(DCO)=0.57 *2*.
369.4 *5*	4.0 *2*	5144.8	39/2$^-$	4775.4	37/2$^-$	
380.9 *5*	3.6 *2*	8789.9		8409.0		
384.3 *3*	78 *2*	5721.0	41/2$^+$	5336.8	39/2$^+$	R(DCO)=0.54 *3*.
389.6 *3*	15.8 *6*	3468.1	29/2$^+$	3078.5	27/2$^+$	R(DCO)=0.36 *9*.
392.0 *3*	10.1 *4*	1927.55	19/2$^-$	1535.6	17/2$^-$	
392.5 *5*	3.0 *2*	7734.3	51/2$^-$	7342.0	49/2$^-$	
402.8 *3*	34 *1*	6123.8	43/2$^+$	5721.0	41/2$^+$	
403.0 *3*	58 *2*	2705.5	25/2$^+$	2302.5	23/2$^+$	R(DCO)=0.53 *4*.
411.3 *5*	9.1 *3*	6773.8	47/2$^-$	6362.7	45/2$^-$	R(DCO)=0.59 *21*.
423.2 *5*	7.6 *3*	8409.0		7985.8	53/2$^-$	
430.8 *3*	17.3 *6*	7336.8		6906.0	47/2$^+$	

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^{92}Mo(^{54}Fe,3pγ) 1999Es07 (continued)

γ(^{143}Tb) (continued)

E_γ	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Comments
434.6 *5*	6.8 *3*	6033.4	43/2$^-$	5598.8	41/2$^-$	
434.8 *5*	9.7 *4*	2834.4	27/2$^-$	2399.7	23/2$^-$	
444.8 *3*	60 *2*	5553.6	41/2$^-$	5108.7	39/2$^-$	R(DCO)=0.49 *3*.
446.4 *3*	75 *2*	4332.4	35/2$^-$	3886.1	33/2$^-$	R(DCO)=0.50 *3*.
448.5 *5*	2.8 *2*	6938.1	47/2$^-$	6489.6	45/2$^-$	
450.1 *5*	9.3 *3*	6895.4		6445.3	45/2$^+$	
455.1 *3*	15.2 *6*	3199.6	29/2$^-$	2745.0	27/2$^-$	
455.9 *3*	44 *1*	6445.3	45/2$^+$	5989.3	43/2$^+$	R(DCO)=0.50 *5*.
460.7 *3*	26 *1*	6906.0	47/2$^+$	6445.3	45/2$^+$	R(DCO)=0.48 *7*.
475.9 *3*	11.3 *5*	3979.5	33/2$^-$	3503.6	31/2$^-$	
479.2 *3*	167 *5*	3886.1	33/2$^-$	3407.0	31/2$^-$	R(DCO)=0.57 *3*.
484.2 *3*	32 *1*	2786.7	25/2$^+$	2302.5	23/2$^+$	R(DCO)=0.60 *9*.
485.3 *3*	13 *1*	2796.3	(25/2$^+$)	2310.9	21/2$^+$	
497.3 *3*	16.1 *6*	5161.0	37/2$^+$	4663.9	35/2$^+$	R(DCO)=0.48 *7*.
503.7 *3*	16.6 *6*	1927.55	19/2$^-$	1423.80	17/2$^-$	R(DCO)=0.82 *10*.
507.5 *5*	3.4 *2*	8916.5		8409.0		
510.0 *3*	19 *1*	3588.6	29/2$^+$	3078.5	27/2$^+$	R(DCO)=0.68 *10*.
514.0 *5*	4.1 *3*	9430.5		8916.5		
518.1 *3*	14.3 *6*	8252.4	(53/2$^-$)	7734.3	51/2$^-$	
520.8 *3*	1000	520.75	15/2$^-$	0.0	11/2$^-$	R(DCO)=0.92 *2*.
527.5 *3*	18.4 *6*	5191.1	37/2$^+$	4663.9	35/2$^+$	R(DCO)=0.71 *7*.
530.8 *3*	27 *1*	1072.3	15/2$^-$	541.21	13/2$^-$	R(DCO)=0.67 *12*.
534.5 *3*	22 *1*	534.48		0.0	11/2$^-$	R(DCO)=1.02 *11*.
536.1 *3*	35 *1*	3281.1	29/2$^-$	2745.0	27/2$^-$	
541.1 *3*	171 *4*	541.21	13/2$^-$	0.0	11/2$^-$	R(DCO)=0.43 *3*.
543.2 *5*	1.6 *3*	7032.8	47/2$^-$	6489.6	45/2$^-$	R(DCO)=0.70 *17*.
558.0 *3*	37 *1*	6362.7	45/2$^-$	5804.8	43/2$^-$	R(DCO)=0.52 *6*.
566.8 *3*	21 *1*	3797.6	31/2$^+$	3231.0	(27/2$^+$)	
568.1 *3*	18.9 *6*	7342.0	49/2$^-$	6773.8	47/2$^-$	
572.5 *3*	72 *2*	3407.0	31/2$^-$	2834.4	27/2$^-$	R(DCO)=0.96 *6*.
575.8 *3*	11.7 *4*	4373.5	33/2$^+$	3797.6	31/2$^+$	R(DCO)=0.71 *12*.
585.7 *3*	17 *1*	3785.3		3199.6	29/2$^-$	
588.2 *3*	15 *1*	2399.7	23/2$^-$	1811.6	(19/2$^-$)	
591.2 *5*	4.4 *5*	1809.5	17/2$^-$	1218.42	17/2$^-$	R(DCO)=1.02 *7*.
592.5 *3*	111 *3*	3281.1	29/2$^-$	2688.7	25/2$^-$	R(DCO)=1.02 *4*.
596.2 *3*	86 *3*	2688.7	25/2$^-$	2092.6	21/2$^-$	R(DCO)=0.89 *6*.
604.1 *3*	12.2 *5*	3186.6	(27/2$^+$)	2582.5	23/2$^+$	R(DCO)=0.72 *15*.
608.9 *3*	27 *1*	4941.2	37/2$^-$	4332.4	35/2$^-$	R(DCO)=0.69 *9*.
614.6 *5*	6.8 *5*	1809.5	17/2$^-$	1194.80	19/2$^-$	
617.2 *5*	7.2 *5*	1811.6	(19/2$^-$)	1194.80	19/2$^-$	
631.6 *5*	2.5 *2*	6230.5	43/2$^-$	5598.8	41/2$^-$	
635.6 *3*	60 *2*	1423.80	17/2$^-$	788.16	13/2$^-$	R(DCO)=0.92 *8*.
636.8 *5*	8.5 *5*	2939.3	27/2$^+$	2302.5	23/2$^+$	R(DCO)=0.92 *14*.
643.8 *5*	8.2 *4*	7985.8	53/2$^-$	7342.0	49/2$^-$	R(DCO)=1.04 *17*.
652.4 *3*	19 *1*	5989.3	43/2$^+$	5336.8	39/2$^+$	
658.0 *3*	12.6 *5*	5447.9	39/2$^-$	4789.9	35/2$^-$	R(DCO)=0.85 *15*.
661.7 *3*	57 *2*	3407.0	31/2$^-$	2745.0	27/2$^-$	R(DCO)=1.17 *7*.
665.3 *5*	7.6 *4*	3604.6	31/2$^+$	2939.3	27/2$^+$	R(DCO)=1.05 *23*.
668.9 *3*	81 *3*	2092.6	21/2$^-$	1423.80	17/2$^-$	R(DCO)=1.03 *5*.
672.5 *3*	13 *1*	5447.9	39/2$^-$	4775.4	37/2$^-$	
674.0 *3*	808 *25*	1194.80	19/2$^-$	520.75	15/2$^-$	R(DCO)=0.96 *3*.
677.2 *3*	122 *4*	1218.42	17/2$^-$	541.21	13/2$^-$	
686.6 *3*	11.0 *5*	3886.1	33/2$^-$	3199.6	29/2$^-$	R(DCO)=0.77 *11*.
696.2 *3*	69 *2*	5804.8	43/2$^-$	5108.7	39/2$^-$	R(DCO)=1.01 *8*.
697.7 *3*	54 *2*	1218.42	17/2$^-$	520.75	15/2$^-$	
698.4 *3*	121 *4*	3979.5	33/2$^-$	3281.1	29/2$^-$	R(DCO)=0.97 *3*.

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^{92}Mo(^{54}Fe,3pγ) 1999Es07 (continued)

γ(^{143}Tb) (continued)

E_γ	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Comments
709.1 *3*	124 *4*	1927.55	19/2$^-$	1218.42	17/2$^-$	R(DCO)=0.77 *4*.
714.2 *3*	20 *1*	4600.3	35/2$^-$	3886.1	33/2$^-$	
719.1 *3*	27 *1*	3797.6	31/2$^+$	3078.5	27/2$^+$	R(DCO)=0.96 *15*.
721.9 *3*	27 *1*	2688.7	25/2$^-$	1966.8	23/2$^-$	R(DCO)=0.82 *14*.
732.9 *5*	6.8 *4*	3919.5	(31/2$^+$)	3186.6	(27/2$^+$)	R(DCO)=1.43 *43*.
733.0 *3*	50 *2*	1927.55	19/2$^-$	1194.80	19/2$^-$	R(DCO)=1.15 *13*.
736.6 *5*	5.6 *4*	1809.5	17/2$^-$	1072.3	15/2$^-$	
739.1 *3*	13 *1*	1811.6	(19/2$^-$)	1072.3	15/2$^-$	
747.2 *3*	10.5 *5*	4351.8	35/2$^+$	3604.6	31/2$^+$	R(DCO)=0.96 *10*.
758.5 *3*	112 *4*	3503.6	31/2$^-$	2745.0	27/2$^-$	R(DCO)=1.07 *3*.
771.7 *3*	20 *1*	3568.2	(29/2$^+$)	2796.3	(25/2$^+$)	R(DCO)=0.94 *11*.
771.9 *3*	615 *19*	1966.8	23/2$^-$	1194.80	19/2$^-$	R(DCO)=1.01 *2*.
776.1 *3*	82 *3*	3078.5	27/2$^+$	2302.5	23/2$^+$	R(DCO)=1.00 *3*.
776.3 *3*	65 *2*	5108.7	39/2$^-$	4332.4	35/2$^-$	R(DCO)=1.19 *7*.
778.3 *3*	305 *9*	2745.0	27/2$^-$	1966.8	23/2$^-$	R(DCO)=1.16 *6*.
782.6 *3*	13 *1*	6230.5	43/2$^-$	5447.9	39/2$^-$	R(DCO)=1.71 *21*.
783.3 *3*	75 *3*	4287.0	35/2$^-$	3503.6	31/2$^-$	R(DCO)=1.27 *6*.
784.8 *3*	41 *1*	4373.5	33/2$^+$	3588.6	29/2$^+$	R(DCO)=0.96 *24*.
785.0 *3*	11 *1*	4353.3	(33/2$^+$)	3568.2	(29/2$^+$)	
787.3 *3*	23 *1*	5161.0	37/2$^+$	4373.5	33/2$^+$	R(DCO)=1.3 *5*.
788.2 *3*	35 *2*	788.16	13/2$^-$	0.0	11/2$^-$	
795.9 *3*	91 *3*	4775.4	37/2$^-$	3979.5	33/2$^-$	R(DCO)=0.96 *5*.
801.7 *5*	3.2 *2*	3588.6	29/2$^+$	2786.7	25/2$^+$	R(DCO)=1.31 *26*.
802.3 *3*	22 *1*	7032.8	47/2$^-$	6230.5	43/2$^-$	R(DCO)=0.97 *12*.
807.4 *3*	22 *1*	2025.8	21/2$^-$	1218.42	17/2$^-$	R(DCO)=0.91 *19*.
810.5 *3*	13.2 *6*	4789.9	35/2$^-$	3979.5	33/2$^-$	R(DCO)=0.60 *9*.
817.4 *3*	16.9 *6*	5191.1	37/2$^+$	4373.5	33/2$^+$	
823.4 *3*	54 *2*	5598.8	41/2$^-$	4775.4	37/2$^-$	R(DCO)=1.15 *7*.
832.1 *3*	13.4 *6*	4751.6	(35/2$^+$)	3919.5	(31/2$^+$)	
837.7 *3*	10.1 *4*	5191.1	37/2$^+$	4353.3	(33/2$^+$)	
844.4 *3*	14.7 *6*	5196.2	39/2$^+$	4351.8	35/2$^+$	R(DCO)=0.84 *15*.
857.7 *3*	55 *2*	5144.8	39/2$^-$	4287.0	35/2$^-$	R(DCO)=0.95 *5*.
866.5 *3*	27 *1*	4663.9	35/2$^+$	3797.6	31/2$^+$	
867.5 *3*	232 *1*	2834.4	27/2$^-$	1966.8	23/2$^-$	R(DCO)=1.01 *3*.
871.0 *3*	14.9 *6*	7903.8	51/2$^-$	7032.8	47/2$^-$	R(DCO)=0.79 *12*.
875.6 *3*	11.0 *6*	2901.4	(25/2$^-$)	2025.8	21/2$^-$	
880.3 *5*	6.7 *4*	4287.0	35/2$^-$	3407.0	31/2$^-$	
882.7 *5*	8.5 *5*	1423.80	17/2$^-$	541.21	13/2$^-$	R(DCO)=1.29 *18*.
883.0 *3*	15.5 *6*	3588.6	29/2$^+$	2705.5	25/2$^+$	R(DCO)=1.36 *41*.
888.6 *3*	44 *1*	6033.4	43/2$^-$	5144.8	39/2$^-$	R(DCO)=0.90 *4*.
890.8 *3*	35 *1*	6489.6	45/2$^-$	5598.8	41/2$^-$	R(DCO)=1.12 *10*.
897.8 *3*	30 *1*	2092.6	21/2$^-$	1194.80	19/2$^-$	R(DCO)=0.77 *8*.
903.1 *3*	37 *1*	1423.80	17/2$^-$	520.75	15/2$^-$	R(DCO)=0.60 *5*.
904.7 *3*	27 *1*	6938.1	47/2$^-$	6033.4	43/2$^-$	R(DCO)=0.90 *4*.
905.3 *3*	20 *1*	4373.5	33/2$^+$	3468.1	29/2$^+$	R(DCO)=0.90 *11*.
919.7 *5*	9.8 *4*	6115.9	43/2$^+$	5196.2	39/2$^+$	R(DCO)=0.89 *15*.
925.3 *3*	58 *2*	4332.4	35/2$^-$	3407.0	31/2$^-$	R(DCO)=1.02 *9*.
928.6 *3*	15.7 *6*	3231.0	(27/2$^+$)	2302.5	23/2$^+$	
951.7 *3*	33 *1*	2146.8	21/2$^+$	1194.80	19/2$^-$	R(DCO)=0.54 *10*.
960.4 *3*	30 *1*	7734.3	51/2$^-$	6773.8	47/2$^-$	R(DCO)=1.05 *7*.
968.8 *3*	60 *2*	6773.8	47/2$^-$	5804.8	43/2$^-$	R(DCO)=1.02 *4*.
974.3 *3*	17 *1*	7912.4	51/2$^-$	6938.1	47/2$^-$	R(DCO)=1.00 *13*.
974.5 *5*	6.6 *4*	7090.4	(47/2$^+$)	6115.9	43/2$^+$	R(DCO)=0.72 *18*.
979.6 *5*	9.7 *4*	7342.0	49/2$^-$	6362.7	45/2$^-$	R(DCO)=0.99 *21*.
994.6 *3*	14 *1*	1535.6	17/2$^-$	541.21	13/2$^-$	
1014.8 *3*	12 *1*	1535.6	17/2$^-$	520.75	15/2$^-$	R(DCO)=0.71 *17*.

Continued on next page (footnotes at end of table)

^{92}Mo(^{54}Fe,3pγ) 1999Es07 (continued)

γ(^{143}Tb) (continued)

E_γ	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Comments
1016.6 *5*	6.6 *3*	8750.9	$55/2^-$	7734.3	$51/2^-$	R(DCO)=1.06 *20*.
1029.7 *3*	17.1 *6*	7519.3	$49/2^-$	6489.6	$45/2^-$	R(DCO)=1.02 *12*.
1040.3 *3*	11.7 *5*	8944.1	$55/2^-$	7903.8	$51/2^-$	R(DCO)=1.4 *3*.
1054.9 *3*	60 *2*	4941.2	$37/2^-$	3886.1	$33/2^-$	R(DCO)=1.07 *11*.
1058.4 *5*	10.0 *5*	8970.8	$55/2^-$	7912.4	$51/2^-$	R(DCO)=1.28 *20*.
1063.1 *5*	3.1 *3*	8153.5	$(51/2^+)$	7090.4	$(47/2^+)$	
1116.0 *3*	48 *2*	2310.9	$21/2^+$	1194.80	$19/2^-$	R(DCO)=0.50 *4*.
1132.2 *5*	6.2 *4*	8651.5	$53/2^-$	7519.3	$49/2^-$	R(DCO)=1.17 *17*.
1155.3 *5*	7.5 *4*	10126.1	$(59/2^-)$	8970.8	$55/2^-$	
1176.6 *5*	1.9 *2*	9330.1	$(55/2^+)$	8153.5	$(51/2^+)$	
1183.4 *5*	7.4 *5*	5069.3	$(35/2^+)$	3886.1	$33/2^-$	
1193.5 *3*	16 *1*	4600.3	$35/2^-$	3407.0	$31/2^-$	
1288.9 *3*	76 *3*	1809.5	$17/2^-$	520.75	$15/2^-$	R(DCO)=0.73 *12*.

^{92}Mo(^{54}Fe,3pγ) 1999Es07

Level Scheme

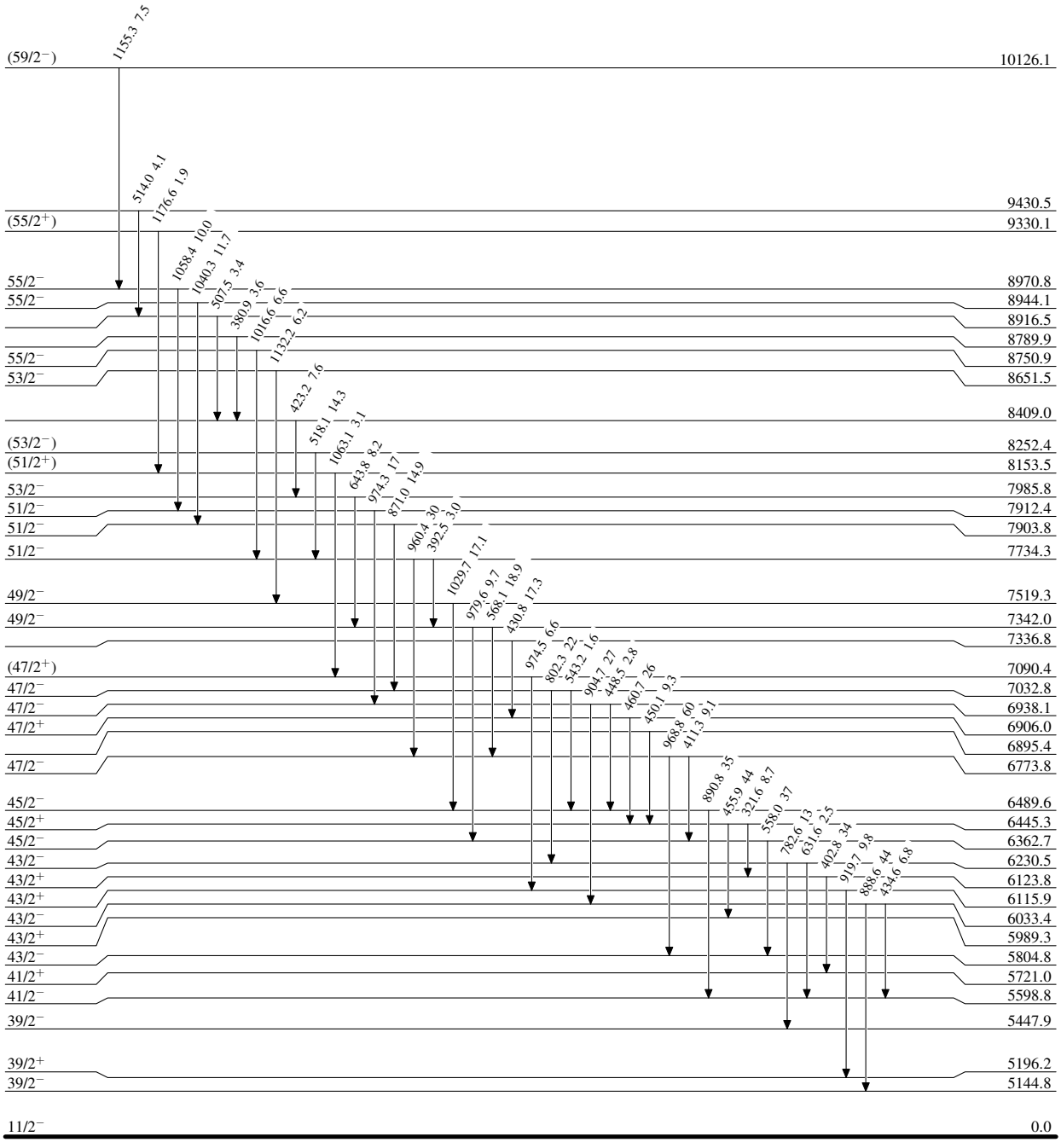
Intensities: Relative I_γ

Legend

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

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

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



$^{143}_{65}Tb_{78}$

^{92}Mo(^{54}Fe,3pγ) 1999Es07

Level Scheme (continued)

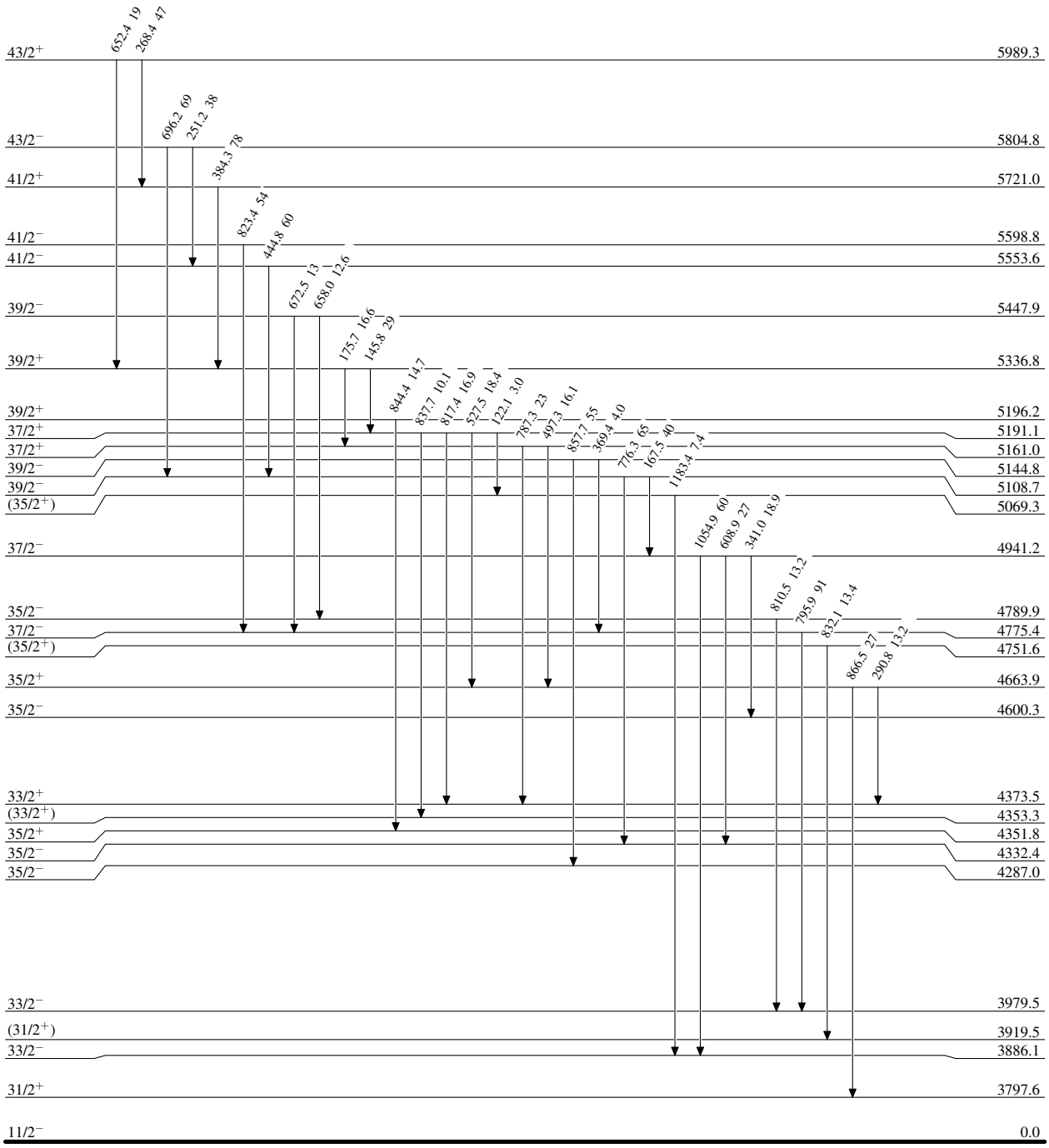
Intensities: Relative I_γ

Legend

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

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

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

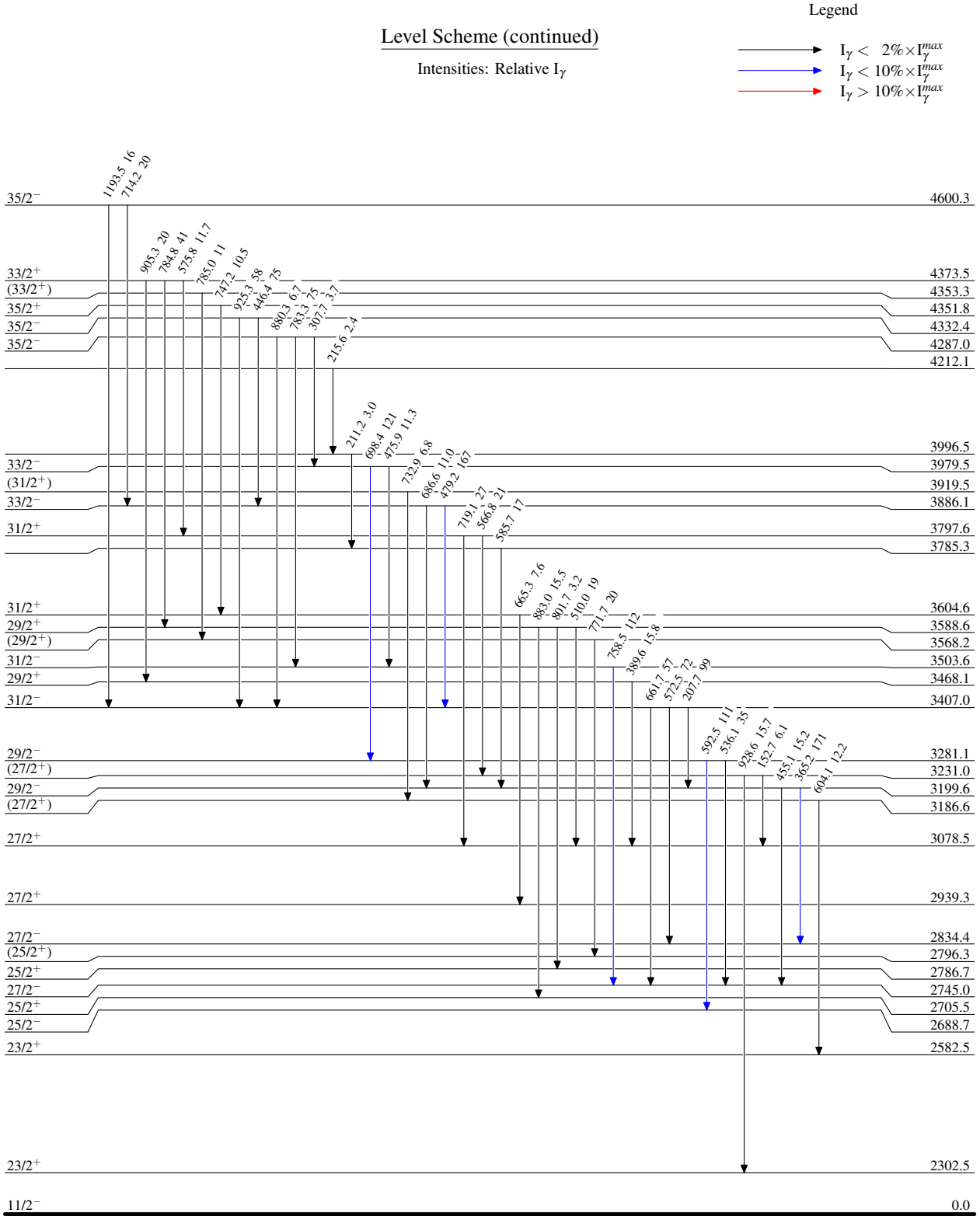


$^{143}_{65}Tb_{78}$

^{92}Mo(^{54}Fe,3pγ) 1999Es07

Level Scheme (continued)

Intensities: Relative I_γ



$^{143}_{65}Tb_{78}$

^{92}Mo(^{54}Fe,3pγ) 1999Es07

Level Scheme (continued)

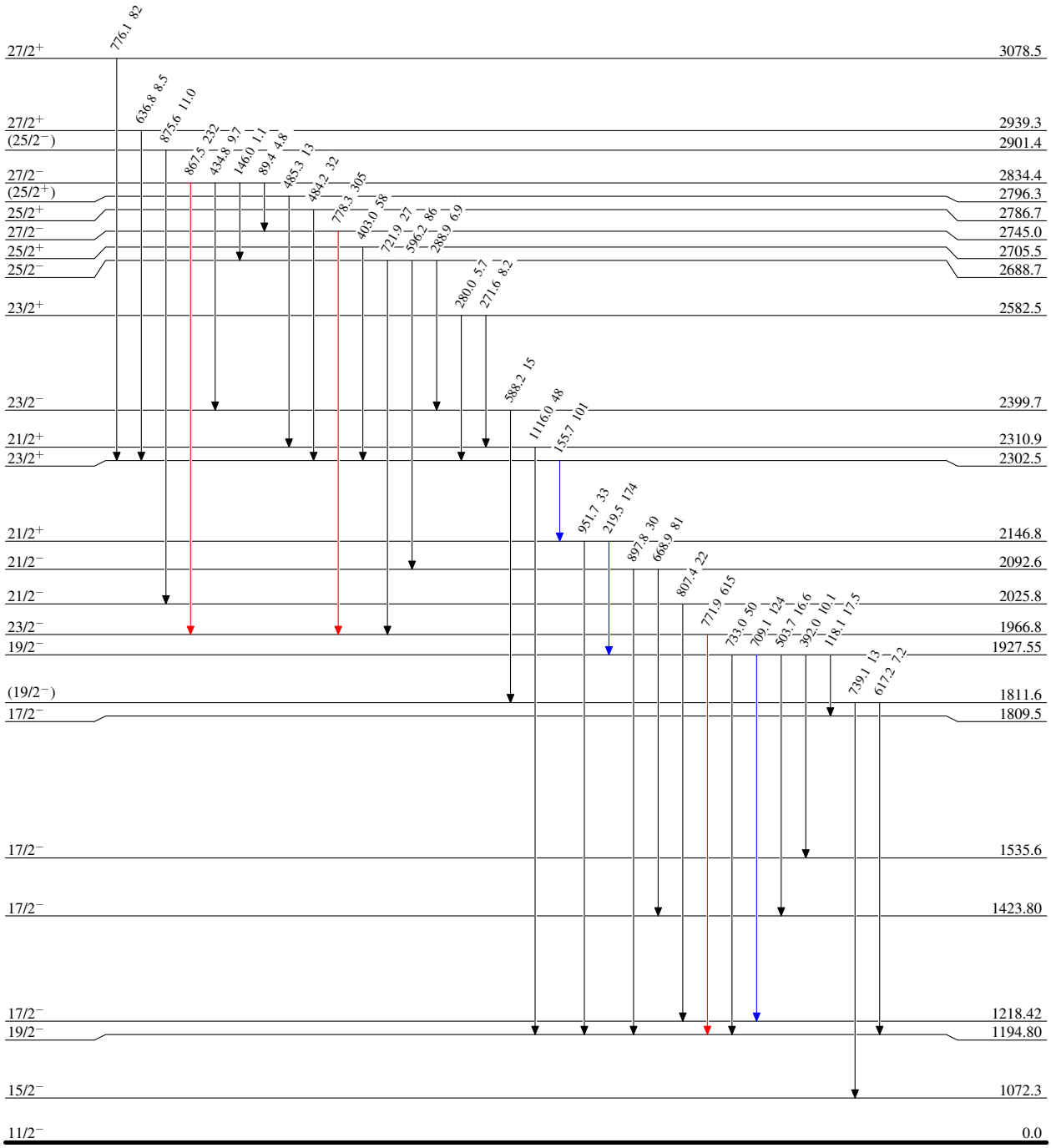
Intensities: Relative I_γ

Legend

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

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

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



$^{143}_{65}Tb_{78}$

^{92}Mo(^{54}Fe,3pγ) 1999Es07

Level Scheme (continued)

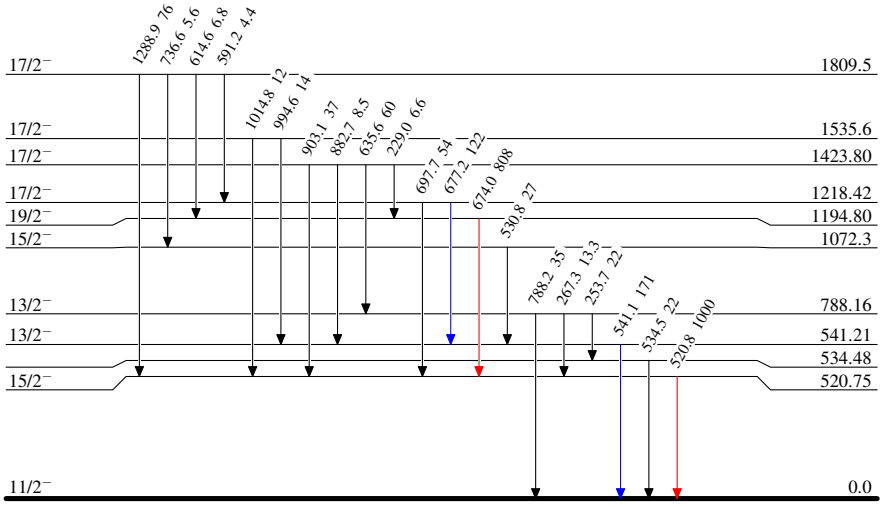
Intensities: Relative I_γ

Legend

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

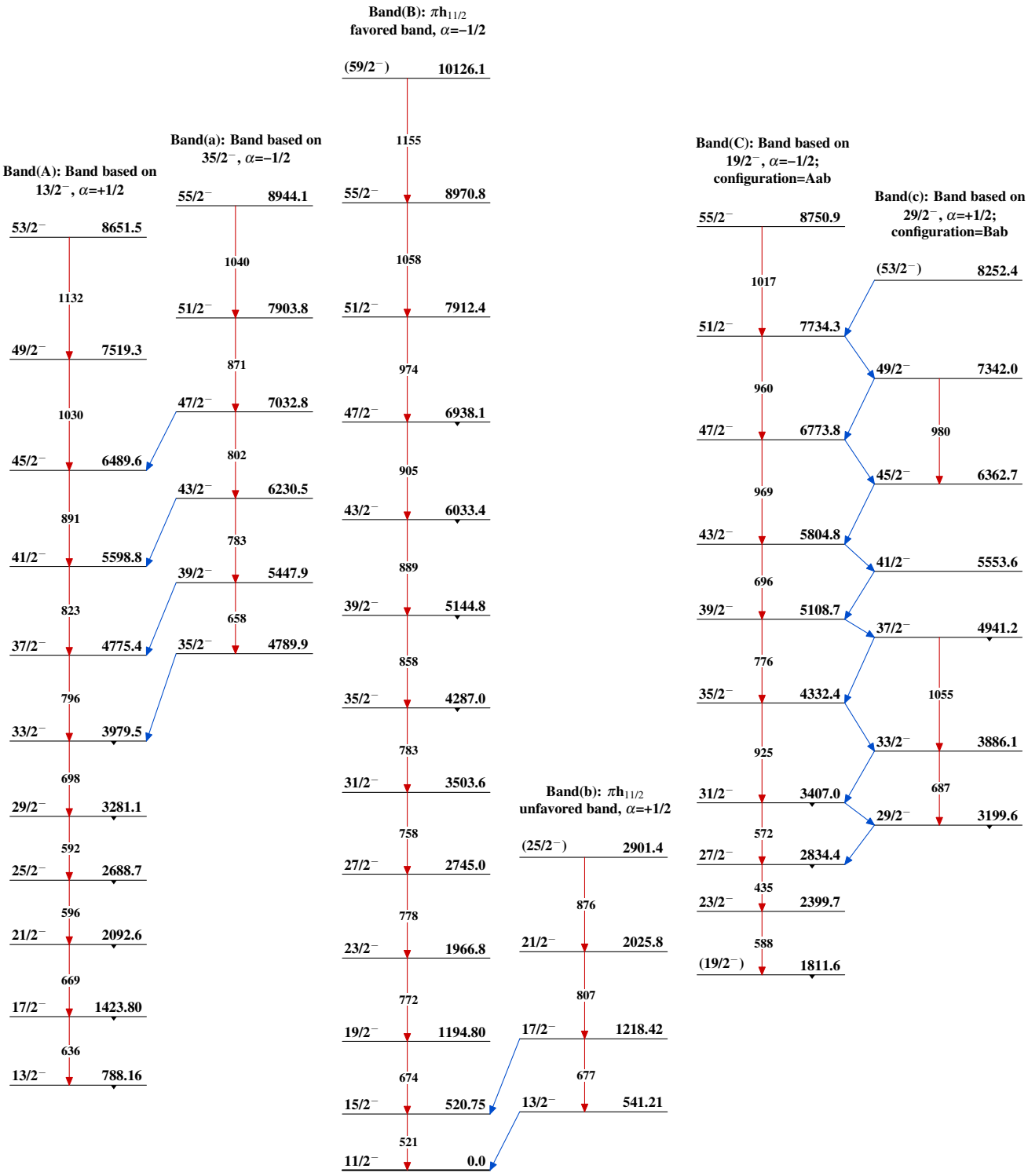
$I_\gamma < 10\% \times I_\gamma^{max}$

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



$^{143}_{65}Tb_{78}$

^{92}Mo(^{54}Fe,3pγ) 1999Es07



$^{143}_{65}Tb_{78}$

^{92}Mo(^{54}Fe,3pγ) 1999Es07 (continued)