^{70}Zn(^{36}S,p4nγ) 2001Ti08

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	ENSDF	1-Jul-2006

2001Ti08: E=130 MeV. Measured Eγ, Iγ, $\gamma\gamma$, $\gamma\gamma(\theta)$(DCO) and linear polarization using EUROGAM II spectrometer comprised of 54 Compton-suppressed Ge detectors including 30 large volume coaxial detectors and 24 four-element clover detectors.

^{101}Rh Levels

E(level)[†]	J$^\pi$	$T_{1/2}$	Comments
0.0[e]	1/2$^-$		
157.40[‡] *4*	9/2$^+$	4.34 d *1*	$T_{1/2}$: from Adopted Levels for ^{101}Rh.
182.18[#] *5*	7/2$^+$	1.91 ns *6*	$T_{1/2}$,E(level): from Adopted Levels for ^{101}Rh.
304.9[f] *8*	3/2$^-$		
354.88[e] *19*	5/2$^-$		
478.3 *7*	5/2$^+$		
747.93[#] *19*	11/2$^+$		
851.1[f] *8*	7/2$^-$		
893.09[‡] *18*	13/2$^+$		
898.58[e] *25*	9/2$^-$		
1576.0[f] *11*	11/2$^-$		
1603.7[e] *3*	13/2$^-$		
1608.9[#] *4*	15/2$^+$		
1778.66[‡] *24*	17/2$^+$		
1843.0 *8*	(13/2$^-$)		
2386.1[e] *3*	17/2$^-$		
2586.6[#] *5*	19/2$^+$		
2671.7[a] *4*	17/2$^-$		
2780.9[‡] *3*	21/2$^+$		
2785.0 *5*	17/2$^-$		
2930.7[b] *3*	19/2$^-$		
3119.5[a] *3*	21/2$^-$		
3249.6[e] *5*	21/2$^-$		
3425.1[b] *4*	23/2$^-$		
3530.5[d] *3*	23/2$^-$		
3744.2[a] *4*	25/2$^-$		
3763.3 *11*	(23/2$^-$)		
3874.9[‡] *4*	25/2$^+$		
3890.0[#] *6*	(23/2$^+$)		
3930.8[c] *4*	25/2$^-$		
3994.2 *8*	(25/2$^-$)		
4071.7 *15*	(25/2$^-$)		
4236.6[b] *4*	27/2$^-$		
4303.5[d] *4*	27/2$^-$		
4384.4[@] *9*	(25/2$^+$)		
4571.0 *8*			
4609.6[a] *4*	29/2$^-$		
4773.4[&] *6*	(27/2$^+$)		
4801.2[c] *4*	29/2$^-$		
4825.0[#] *7*	(27/2$^+$)		
4979.9[‡] *6*	29/2$^+$		

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^{70}Zn(^{36}S,p4nγ) 2001Ti08 (continued)

^{101}Rh Levels (continued)

E(level)†	Jπ	E(level)†	Jπ	E(level)†	Jπ	E(level)†	Jπ
5196.7@ 6	(29/2+)	6309.6d 4	35/2−	8161.0c 6	41/2−	10414.1& 8	(47/2+)
5230.4d 4	31/2−	6633.1& 7	(35/2+)	8287.6a 7	41/2−	10689.9c 8	49/2−
5234.5b 6	(31/2−)	6706.4 7	(35/2+)	8392.4@ 7	(41/2+)	11029.7@ 8	(49/2+)
5627.1& 7	(31/2+)	6882.5c 5	37/2−	8926.0d 7	43/2−	12127.6c 9	53/2−
5728.1c 4	33/2−	6994.2a 5	37/2−	9066.9& 8	(43/2+)	12382.1@ 10	(53/2+)
5846.3a 4	33/2−	7210.4@ 7	(37/2+)	9464.5c 7	45/2−	13756.3@ 11	(57/2+)
5881.5# 7	(31/2+)	7213.3‡ 9	37/2+	9507.6a 12	45/2−	13833.6c 14	57/2−
6082.8‡ 7	33/2+	7536.0d 5	39/2−	9647.6@ 7	(45/2+)	15407.2@ 15	(61/2+)
6116.9@ 7	(33/2+)	7840.3& 7	(39/2+)	10219.9d 7	47/2−	17234.3@ 18	(65/2+)

† From least-squares fit to Eγ's. Based on authors' general statement, uncertainty is assumed as 0.2 for Iγ>15, 0.5 for Iγ=5-15, 1.0 keV for Iγ<5.
‡ Band(A): band based on 9/2+, α=+1/2.
# Band(a): band based on 9/2+, α=−1/2.
@ Band(B): band based on (25/2+), α=+1/2.
& Band(b): band based on (25/2+), α=−1/2.
a Band(C): band based on 17/2−, α=+1/2.
b Band(c): band based on 17/2−, α=−1/2.
c Band(D): band based on 23/2−, α=−1/2.
d Band(d): band based on 23/2−, α=+1/2.
e Band(E): gs band, α=+1/2.
f Band(e): gs band, α=−1/2.

γ(^{101}Rh)

DCO_1: gated by E2 transitions.
DCO_2: gated by ΔJ=1, dipole transition.

Eγ	Iγ	Ei(level)	J_i^π	Ef	J_f^π	Mult.	Comments
24.78 1		182.18	7/2+	157.40	9/2+	M1+E2	Eγ,Mult.: from Adopted Gammas for ^{101}Rh.
(47.7‡)		898.58	9/2−	851.1	7/2−		
(50.0‡)		354.88	5/2−	304.9	3/2−		
145.3 5	12	893.09	13/2+	747.93	11/2+		
145.4 5	13	2930.7	19/2−	2785.0	17/2−	D	DCO_1=0.73 11.
157.41 4		157.40	9/2+	0.0	1/2−	M4	B(M4)(W.u.)=933 3 Eγ,Mult.: from Adopted Gammas for ^{101}Rh.
169.5 5	6	1778.66	17/2+	1608.9	15/2+		
175.5 10	2	3425.1	23/2−	3249.6	21/2−	D	DCO_2=0.97 18.
188.5 2	75	3119.5	21/2−	2930.7	19/2−	M1+E2	DCO_1=0.73 5. pol=−0.24 17.
190.4 10	1	4801.2	29/2−	4609.6	29/2−		
194.4 10	1	2780.9	21/2+	2586.6	19/2+		
202.2 10	2	4773.4	(27/2+)	4571.0			
213.6 2	23	3744.2	25/2−	3530.5	23/2−	M1+E2	DCO_1=0.70 10. pol=−0.45 45.
239.0 10	1	1843.0	(13/2−)	1603.7	13/2−		

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^{70}Zn(^{36}S,p4nγ) 2001Ti08 (continued)

γ(^{101}Rh) (continued)

E_γ	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.	Comments
258.9 *2*	27	2930.7	19/2$^-$	2671.7	17/2$^-$	M1+E2	DCO_1=0.88 *12*. pol=−0.41 *17*.
281.1 *10*	3	3530.5	23/2$^-$	3249.6	21/2$^-$	D	DCO_1=0.63 *14*.
284.9 *5*	9	2671.7	17/2$^-$	2386.1	17/2$^-$		DCO_1=1.22 *18*. Mult.: ΔJ=0 transition.
(296.3‡)		478.3	5/2$^+$	182.18	7/2$^+$		
305.0† *10*		304.9	3/2$^-$	0.0	1/2$^-$		
305.5 *2*	70	3425.1	23/2$^-$	3119.5	21/2$^-$	M1+E2	DCO_1=0.82 *12* for 305.5+306.1. pol=−0.27 *8*.
305.5 *5*	5	4236.6	27/2$^-$	3930.8	25/2$^-$		
306.1 *2*	20	4609.6	29/2$^-$	4303.5	27/2$^-$	D	DCO_1=0.82 *12* for 305.5+306.1.
308.4 *10*	3	4071.7	(25/2$^-$)	3763.3	(23/2$^-$)		
318.9 *2*	70	3744.2	25/2$^-$	3425.1	23/2$^-$	M1+E2	DCO_1=0.79 *11*. pol=−0.29 *10*.
(320.8‡)		478.3	5/2$^+$	157.40	9/2$^+$		
354.7 *2*	100	354.88	5/2$^-$	0.0	1/2$^-$	E2	DCO_1=0.88 *7*.
372.8 *2*	23	4303.5	27/2$^-$	3930.8	25/2$^-$	D	DCO_1=0.77 *11* for 372.8+373.0. DCO_2=0.91 *14*.
373.0 *2*	33	4609.6	29/2$^-$	4236.6	27/2$^-$	M1+E2	DCO_1=0.77 *11* for 372.8+372.9. DCO_2=0.96 *14*. pol=−0.21 *10*.
389.2 *10*	4	4773.4	(27/2$^+$)	4384.4	(25/2$^+$)		
398.6 *5*	15	2785.0	17/2$^-$	2386.1	17/2$^-$		Mult.: ΔJ=0 transition. DCO_1=1.00 *15*. pol=+0.37 *21*.
400.5 *5*	12	3930.8	25/2$^-$	3530.5	23/2$^-$	D	DCO_2=1.03 *16*.
410.9 *2*	17	3530.5	23/2$^-$	3119.5	21/2$^-$	M1+E2	DCO_1=0.77 *12*. pol=−0.51 *14*.
423.3 *5*	8	5196.7	(29/2$^+$)	4773.4	(27/2$^+$)	D	DCO_1=0.53 *10*.
429.0 *2*	25	5230.4	31/2$^-$	4801.2	29/2$^-$	M1+E2	DCO_1=0.59 *9*. pol=−0.45 *20*.
430.3 *5*	8	5627.1	(31/2$^+$)	5196.7	(29/2$^+$)		
447.4 *10*	1	3119.5	21/2$^-$	2671.7	17/2$^-$		
463.1 *5*	6	6309.6	35/2$^-$	5846.3	33/2$^-$		
470.0 *5*	5	10689.9	49/2$^-$	10219.9	47/2$^-$		
489.2 *5*	8	6116.9	(33/2$^+$)	5627.1	(31/2$^+$)	D	DCO_1=0.53 *7*.
492.1 *2*	60	4236.6	27/2$^-$	3744.2	25/2$^-$	M1+E2	DCO_1=0.68 *10*. pol=−0.31 *7*.
494.3 *10*	1	3425.1	23/2$^-$	2930.7	19/2$^-$		
496.4† *10*		851.1	7/2$^-$	354.88	5/2$^-$		
497.6 *5*	13	4801.2	29/2$^-$	4303.5	27/2$^-$	D	DCO_1=0.79 *12* for 497.6+497.8.
497.8 *2*	20	5728.1	33/2$^-$	5230.4	31/2$^-$	M1+E2	DCO_1=0.79 *12* for 497.6+497.8. DCO_2=1.04 *18*. pol=−0.36 *14*.
503.8 *5*	6	7210.4	(37/2$^+$)	6706.4	(35/2$^+$)		
506.0 *5*	15	3930.8	25/2$^-$	3425.1	23/2$^-$	M1+E2	DCO_1=0.60 *9*. DCO_1=−0.33 *18*.
513.7 *10*	4	3763.3	(23/2$^-$)	3249.6	21/2$^-$	D	DCO_1=0.51 *8*.
516.2 *5*	6	6633.1	(35/2$^+$)	6116.9	(33/2$^+$)		
543.5 *2*	95	898.58	9/2$^-$	354.88	5/2$^-$	E2	DCO_2=1.32 *19*. pol=+0.16 *7*.
544.5 *2*	40	2930.7	19/2$^-$	2386.1	17/2$^-$		
550.8 *10*	2	6633.1	(35/2$^+$)	6082.8	33/2$^+$		
552.4 *5*	9	8392.4	(41/2$^+$)	7840.3	(39/2$^+$)		
559.5 *5*	10	4303.5	27/2$^-$	3744.2	25/2$^-$	D	DCO_2=0.90 *15*.

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^{70}Zn(^{36}S,p4nγ) 2001Ti08 (continued)

$\gamma(^{101}Rh)$ (continued)

E_γ	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.	Comments
564.3 *2*	20	4801.2	29/2$^-$	4236.6	27/2$^-$	D	DCO_1=0.57 *11*.
573.4 *5*	13	6882.5	37/2$^-$	6309.6	35/2$^-$	M1+E2	DCO_2=0.98 *15*. pol=−0.47 *29*.
576.8 *10*	1	4571.0		3994.2	(25/2$^-$)		
577.3 *5*	7	7210.4	(37/2$^+$)	6633.1	(35/2$^+$)		
580.8 *5*	8	9647.6	(45/2$^+$)	9066.9	(43/2$^+$)		
581.0 *5*	12	6309.6	35/2$^-$	5728.1	33/2$^-$	M1+E2	DCO_1=0.69 *11*. pol=−0.71 *37*.
588.8 *5*	5	6706.4	(35/2$^+$)	6116.9	(33/2$^+$)		
590.5 *2*	17	747.93	11/2$^+$	157.40	9/2$^+$		
615.4 *5*	10	11029.7	(49/2$^+$)	10414.1	(47/2$^+$)		
619.9 *10*	3	5230.4	31/2$^-$	4609.6	29/2$^-$		
624.0[#] *10*	2[#]	3744.2	25/2$^-$	3119.5	21/2$^-$		
624.0[#] *5*	11[#]	8161.0	41/2$^-$	7536.0	39/2$^-$	D	DCO_2=0.92 *18*.
624.9 *5*	7	5234.5	(31/2$^-$)	4609.6	29/2$^-$		
630.6 *5*	6	7840.3	(39/2$^+$)	7210.4	(37/2$^+$)		
644.5 *5*	7	3425.1	23/2$^-$	2780.9	21/2$^+$	D	DCO_2=0.98 *17*.
674.2 *5*	10	9066.9	(43/2$^+$)	8392.4	(41/2$^+$)		
(677.4[‡])		1576.0	11/2$^-$	898.58	9/2$^-$		
704.9 *2*	90	1603.7	13/2$^-$	898.58	9/2$^-$	E2	DCO_1=1.03 *8*. pol=+0.36 *9*.
715.8 *5*	7	1608.9	15/2$^+$	893.09	13/2$^+$		
733.8 *5*	12	3119.5	21/2$^-$	2386.1	17/2$^-$	E2	DCO_1=1.00 *15*. pol=+0.32 *22*.
735.9 *2*	66	893.09	13/2$^+$	157.40	9/2$^+$	E2	DCO_1=0.95 *8*. pol=+0.87 *25*.
744.9 *10*	4	3994.2	(25/2$^-$)	3249.6	21/2$^-$		
749.7 *2*	25	3530.5	23/2$^-$	2780.9	21/2$^+$	E1	DCO_1=0.71 *11*. pol=+0.49 *23*.
751.7 *5*	9	6633.1	(35/2$^+$)	5881.5	(31/2$^+$)	Q	DCO_1=0.99 *19*.
766.2 *5*	13	10414.1	(47/2$^+$)	9647.6	(45/2$^+$)		
774.1 *5*	11	4303.5	27/2$^-$	3530.5	23/2$^-$	Q	DCO_2=1.46 *22*.
779.3 *10*	3	4773.4	(27/2$^+$)	3994.2	(25/2$^-$)		
782.3 *2*	85	2386.1	17/2$^-$	1603.7	13/2$^-$	E2	DCO_1=1.02 *8*. pol=+0.42 *8*.
808.0 *5*	8	2586.6	19/2$^+$	1778.66	17/2$^+$		
811.4 *5*	8	4236.6	27/2$^-$	3425.1	23/2$^-$	Q	DCO_1=1.09 *16* for 811.4+811.6.
811.6 *5*	7	3930.8	25/2$^-$	3119.5	21/2$^-$	Q	DCO_1=1.09 *16* for 811.4+811.6.
812.1 *10*	2	5196.7	(29/2$^+$)	4384.4	(25/2$^+$)		
853.6 *10*	3	5627.1	(31/2$^+$)	4773.4	(27/2$^+$)		
860.7 *5*	5	1608.9	15/2$^+$	747.93	11/2$^+$		
863.5 *5*	5	3249.6	21/2$^-$	2386.1	17/2$^-$	Q	DCO_1=1.15 *17* for 863.4+865.4. DCO_2=1.59 *27*.
865.4 *2*	21	4609.6	29/2$^-$	3744.2	25/2$^-$	E2	DCO_1=1.15 *17* for 863.4+865.4. DCO_2=1.63 *24*. pol=+0.38 *25*.
870.9 *5*	8	4801.2	29/2$^-$	3930.8	25/2$^-$		
885.8 *2*	65	1778.66	17/2$^+$	893.09	13/2$^+$	E2	DCO_1=1.18 *10*. pol=+1.13 *29*.
920.3 *10*	3	6116.9	(33/2$^+$)	5196.7	(29/2$^+$)		
926.9 *5*	12	5728.1	33/2$^-$	4801.2	29/2$^-$	E2	DCO_1=1.02 *15* for 926.9+927.2. DCO_2=1.68 *33*. pol=+0.75 *40*.
927.2 *2*	17	5230.4	31/2$^-$	4303.5	27/2$^-$	Q	DCO_1=1.02 *15* for 926.9+927.2.
935.1 *5*	9	4825.0	(27/2$^+$)	3890.0	(23/2$^+$)	Q	DCO_1=0.99 *16*.

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^{70}Zn(^{36}S,p4nγ) 2001Ti08 (continued)

γ(^{101}Rh) (continued)

E_γ	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.	Comments
941.6 *10*	2	2785.0	17/2$^-$	1843.0	(13/2$^-$)		
994.1 *5*	8	5230.4	31/2$^-$	4236.6	27/2$^-$	Q	DCO_2=1.60 *24*.
1002.4 *2*	60	2780.9	21/2$^+$	1778.66	17/2$^+$	E2	DCO_1=1.05 *9*. pol=+1.10 *38*.
1005.5 *10*	3	6633.1	(35/2$^+$)	5627.1	(31/2$^+$)		
1028.5 *10*	3	4773.4	(27/2$^+$)	3744.2	25/2$^-$		
1044.7 *5*	5	5846.3	33/2$^-$	4801.2	29/2$^-$		
1056.6 *5*	8	5881.5	(31/2$^+$)	4825.0	(27/2$^+$)	Q	DCO_1=1.04 *16*.
1068.1 *5*	15	2671.7	17/2$^-$	1603.7	13/2$^-$	E2	DCO_1=1.08 *16*. pol=+0.90 *54*.
1079.2 *2*	24	6309.6	35/2$^-$	5230.4	31/2$^-$	E2	DCO_1=1.26 *19*. pol=+0.95 *52*.
1079.8 *5*	5	6706.4	(35/2$^+$)	5627.1	(31/2$^+$)		
1093.6 *5*	14	7210.4	(37/2$^+$)	6116.9	(33/2$^+$)	Q	DCO_1=1.12 *16* for 1093.6+1094.0.
1094.0 *2*	18	3874.9	25/2$^+$	2780.9	21/2$^+$	Q	DCO_1=1.12 *16* for 1093.6+1094.0.
1103.0 *5*	5	6082.8	33/2$^+$	4979.9	29/2$^+$	Q	DCO_1=1.08 *17* for 1103.0+1105.0.
1105.0 *5*	12	4979.9	29/2$^+$	3874.9	25/2$^+$	Q	DCO_1=1.08 *17* for 1103.0+1105.0.
1109.2 *5*	9	3890.0	(23/2$^+$)	2780.9	21/2$^+$	D	DCO_1=0.74 *12*.
1118.2 *5*	10	5728.1	33/2$^-$	4609.6	29/2$^-$	Q	DCO_1=1.04 *15*.
1129.9 *10*	3	7213.3	37/2$^+$	6082.8	33/2$^+$	Q	DCO_1=1.00 *19*.
1145.6 *10*	1	4571.0		3425.1	23/2$^-$		
1147.9 *2*	17	6994.2	37/2$^-$	5846.3	33/2$^-$	Q	DCO_1=1.06 *15*.
1154.5 *2*	17	6882.5	37/2$^-$	5728.1	33/2$^-$	Q	DCO_1=1.12 *17*.
1178.6 *10*	2	8392.4	(41/2$^+$)	7213.3	37/2$^+$		
1181.9 *2*	19	8392.4	(41/2$^+$)	7210.4	(37/2$^+$)	Q	DCO_1=0.97 *16*.
1207.5 *5*	10	7840.3	(39/2$^+$)	6633.1	(35/2$^+$)		
1220.0 *10*	4	9507.6	45/2$^-$	8287.6	41/2$^-$	Q	DCO_1=1.07 *17*. DCO_2=1.39 *21*.
1225.4 *5*	7	10689.9	49/2$^-$	9464.5	45/2$^-$	Q	DCO_1=1.16 *17* for 1225.4+1226.2.
1226.2 *2*	22	7536.0	39/2$^-$	6309.6	35/2$^-$	E2	DCO_1=1.16 *17* for 1225.4+1226.2.
1227.2 *5*	14	9066.9	(43/2$^+$)	7840.3	(39/2$^+$)		
1236.7 *2*	25	5846.3	33/2$^-$	4609.6	29/2$^-$	Q	DCO_1=1.26 *19*.
1255.1 *2*	16	9647.6	(45/2$^+$)	8392.4	(41/2$^+$)	Q	DCO_1=1.07 *20*.
1279.5 *5*	11	8161.0	41/2$^-$	6882.5	37/2$^-$	Q	DCO_1=0.96 *14*.
1293.4 *5*	9	8287.6	41/2$^-$	6994.2	37/2$^-$	Q	DCO_1=1.18 *18* for 1293.4+1294.0.
1294.0 *5*	6	10219.9	47/2$^-$	8926.0	43/2$^-$	Q	DCO_1=1.18 *18* for 1293.4+1294.0.
1303.4 *5*	14	9464.5	45/2$^-$	8161.0	41/2$^-$	Q	DCO_1=1.08 *16*.
1322.1 *10*	1	5196.7	(29/2$^+$)	3874.9	25/2$^+$		
1347.5 *5*	15	10414.1	(47/2$^+$)	9066.9	(43/2$^+$)		
1352.4 *5*	10	12382.1	(53/2$^+$)	11029.7	(49/2$^+$)		
1374.2 *5*	9	13756.3	(57/2$^+$)	12382.1	(53/2$^+$)		
1382.2 *5*	10	11029.7	(49/2$^+$)	9647.6	(45/2$^+$)		
1390.0 *5*	10	8926.0	43/2$^-$	7536.0	39/2$^-$	Q	DCO_1=1.10 *18*.
1437.7 *5*	6	12127.6	53/2$^-$	10689.9	49/2$^-$	Q	DCO_1=1.23 *20*. DCO_2=1.54 *24*.
1650.9 *10*	4	15407.2	(61/2$^+$)	13756.3	(57/2$^+$)		
1706.0 *10*	4	13833.6	57/2$^-$	12127.6	53/2$^-$	Q	DCO_2=1.74 *30*.
1827.1 *10*	4	17234.3	(65/2$^+$)	15407.2	(61/2$^+$)		

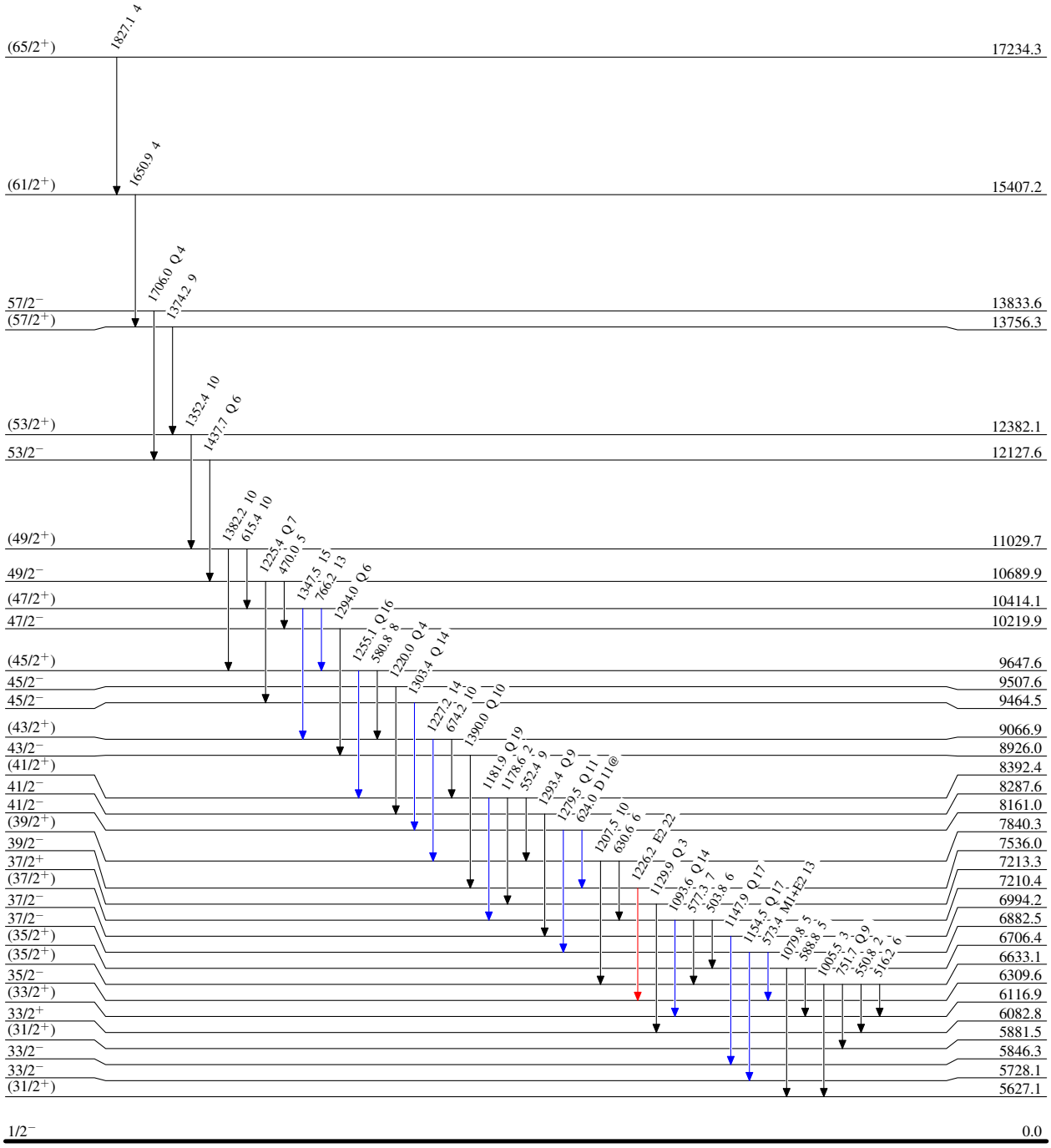
† Weak γ ray.
‡ γ not seen by 2001Ti08.
# Multiply placed with intensity suitably divided.

^{70}Zn(^{36}S,p4nγ) **2001Ti08**

Level Scheme

Intensities: Relative I_γ
@ Multiply placed: intensity suitably divided

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



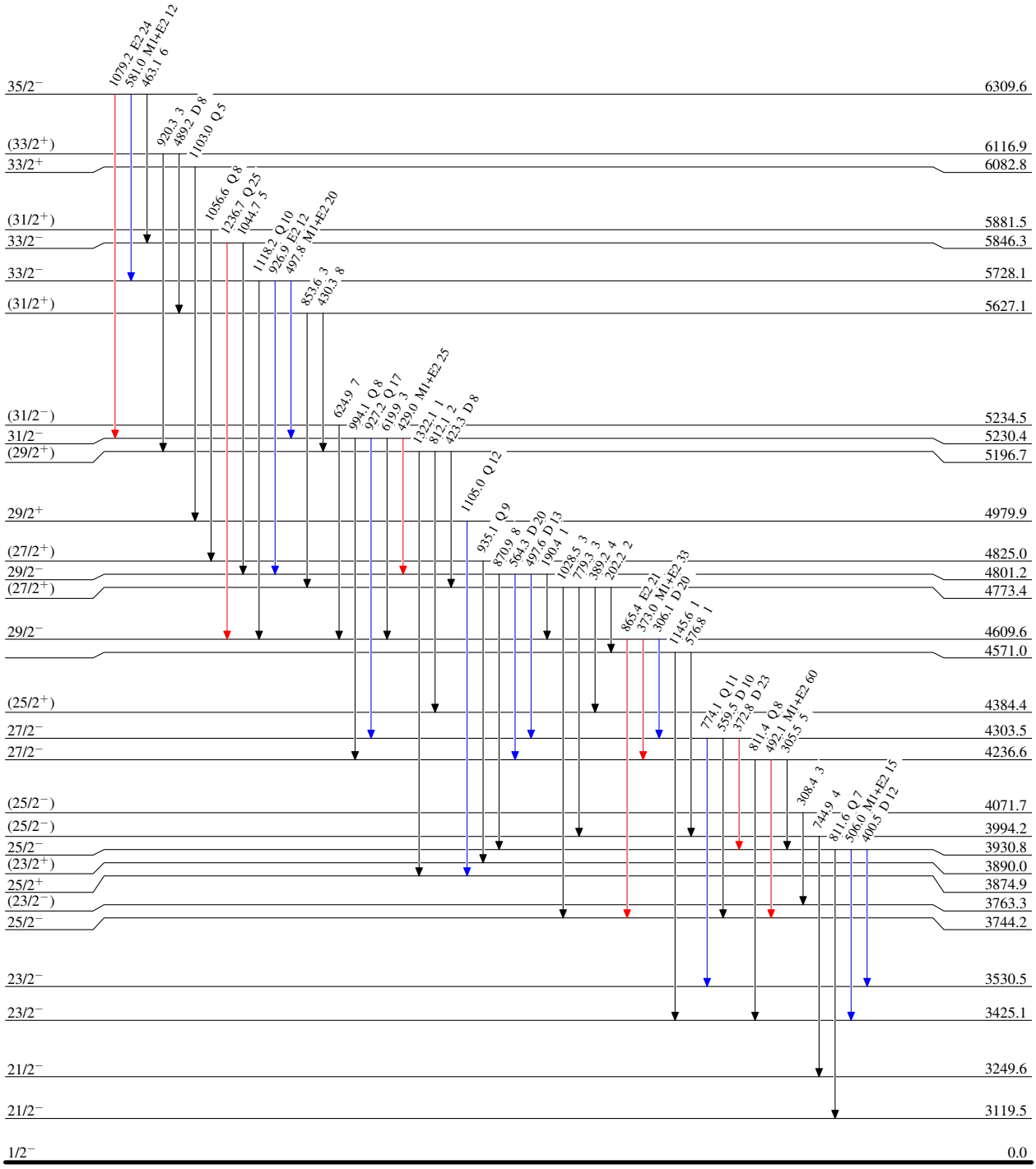
$^{101}_{45}Rh_{56}$

^{70}Zn(^{36}S,p4nγ) 2001Ti08

Level Scheme (continued)

Intensities: Relative I_γ
@ Multiply placed: intensity suitably divided

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

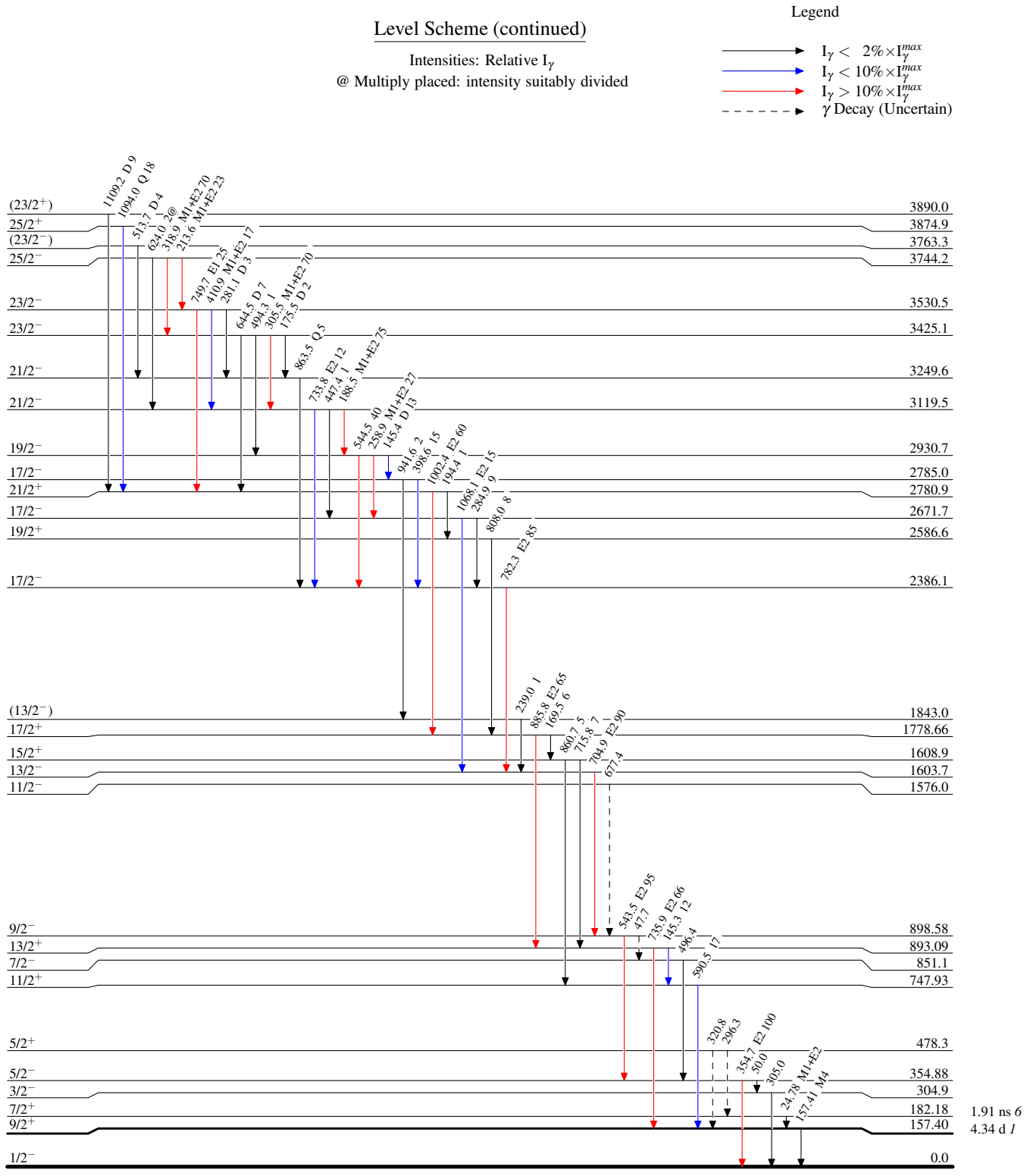


$^{101}_{45}Rh_{56}$

^{70}Zn(^{36}S,p4nγ) 2001Ti08

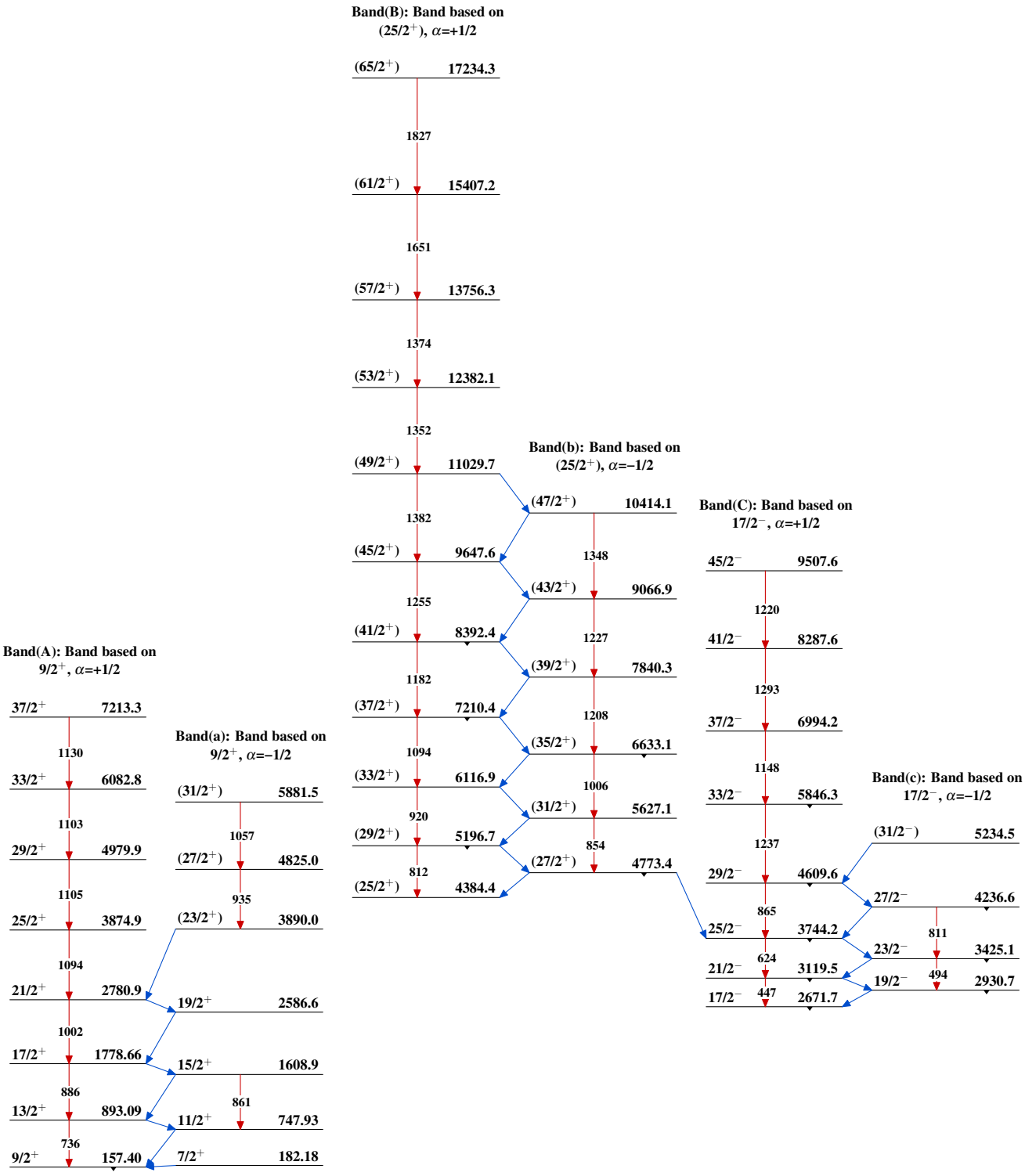
Level Scheme (continued)

Intensities: Relative I_γ
@ Multiply placed: intensity suitably divided



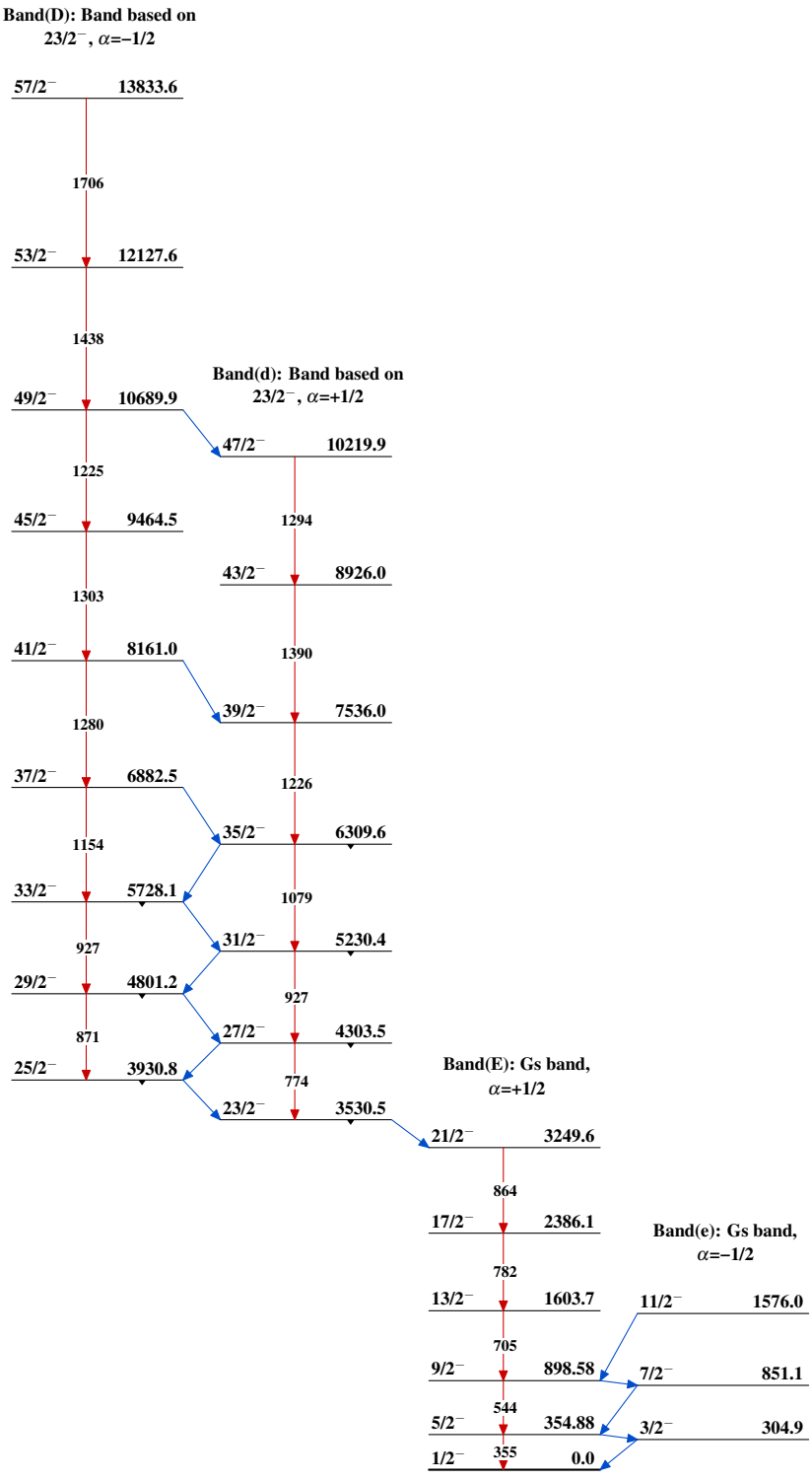
$^{101}_{45}Rh_{56}$

^{70}Zn(^{36}S,p4nγ) 2001Ti08



$^{101}_{45}Rh_{56}$

$^{70}Zn(^{36}S,p4n\gamma)$ 2001Ti08 (continued)



$^{101}_{45}Rh_{56}$