^{76}Ge(^{37}Cl,5nγ) 2001Ch71

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	ENSDF	1-Jul-2008

Includes ^{94}Mo(^{18}O,p3nγ) E=85 MeV.

E=138 MeV. Measured Eγ,Iγ, $\gamma\gamma$, $\gamma\gamma(\theta)$(DCO), lifetimes by DSAM using 8π array of 20 Compton-suppressed HPGe detectors and a 71-element inner BGO ball as a multiplicity filter. In a second experiment, Stony Brook array of 6 Compton-suppressed HPGe detectors combined with a 14-element BGO multiplicity filter was used.

^{108}In Levels

In the alignments, the lowest energy positive-parity neutron orbitals are represented by a and β, whereas the negative-parity orbitals by E and F.

E(level)†	Jπ	$T_{1/2}$	E(level)†	Jπ	$T_{1/2}$
0.0	7^+		3828.41 *17*	15^-	
150.80[c] *7*	7^+		3838.87[d] *17*	14^-	
807.77[c] *8*	8^+		3910.10[@] *16*	15^-	0.42 ps *+7−17*
904.42 *9*	(7^-)		3972.38 *17*	$14^{(-)}$	
1119.48[#] *6*	8^-		4101.16[b] *13*	$13^{(-)}$	
1332.84[#] *8*	9^-		4135.5[d] *6*		
1396.58[e] *7*	9^+		4265.60[a] *14*	$14^{(-)}$	
1557.21[c] *9*	9^+		4330.84[&] *14*	13^+	
1633.63[e] *10*	11^+		4382.98 *20*	$15^{(-)}$	
1861.29[a] *7*	$8^{(-)}$		4408.09[e] *19*	(15^+)	
1861.83[#] *9*	10^-		4471.37?[d] *20*	(15^-)	
2077.76 *12*	$9^{(-)}$		4485.60 *19*	(16^-)	
2253.53 *15*			4517.03[&] *15*	14^+	
2368.18 *8*	10^-		4571.25[@] *17*	16^-	0.308 ps *+17−33*
2431.2 *6*			4773.05[&] *16*	15^+	
2439.39[a] *8*	$10^{(-)}$		4878.98[b] *15*	$15^{(-)}$	
2466.45[#] *10*	11^-		5076.86[f] *18*	(16^-)	
2515.15[@] *8*	10^-		5130.46[&] *17*	16^+	0.299 ps *+27−24*
2617.14 *13*			5156.69[@] *17*	17^-	
2620.58[e] *13*	12^+		5186.08 *18*		
2662.07[@] *8*	11^-		5492.36[f] *21*	(17^-)	
2761.0[‡] *4*			5537.93 *20*		
2815.56[@] *11*	12^-		5603.39 *20*		
2879.43[d] *11*	11^-		5603.92[&] *18*	17^+	0.155 ps *+12−10*
3008.07[#] *13*	12^-		5707.23[b] *17*	17	
3010.09 *13*			5807.23 *17*	17	
3046.37[@] *14*	13^-		5892.59 *20*	(18^-)	
3064.38[e] *17*	$13^{(+)}$		5954.36[f] *23*	(18^-)	
3102.92[d] *11*	12^-		6168.78[&] *18*	18^+	0.110 ps *8*
3274.11[a] *12*	$12^{(-)}$		6447.66[f] *25*	(19^-)	
3382.06[@] *16*	14^-	1.13 ps *4*	6588.42 *21*	18^+	
3425.17[d] *14*	13^-		6611.38[b] *18*	19	
3445.97 *17*	(13^-)		6711.14[&] *19*	19^+	0.038 ps *+7−12*
3548.08[b] *12*	$11^{(-)}$		7212.83 *21*	(19^+)	
3643.57[#] *17*	13^-		7235.14[&] *22*	(20^+)	

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^{76}Ge(^{37}Cl,5nγ) 2001Ch71 (continued)

^{108}In Levels (continued)

E(level)†	Jπ	E(level)†	Jπ	E(level)†	Jπ	E(level)†	Jπ
7287.14 *22*	(20$^+$)	7748.3 *5*		8015.7 *3*	(21$^+$)	8571.4& *4*	(22$^+$)
7613.79[b] *20*	21	7831.14& *24*	(21$^+$)	8558.2? *5*	(22$^+$)	8792.80[b] *23*	(23)

† From least-squares fit to Eγ′s (by compilers). The least-squares adjustment procedure indicates that the Δ(Eγ)′s, as quoted by 2001Ch71 may be either statistical uncertainties only or somewhat underestimated, since about 12 γ rays are poorly fitted, the deviations being 0.3 to 0.5 keV (Compilers′ note).

‡ No decay γ′s known.

Band(A): Magnetic-rotational band #1. Configuration=$\pi(g_{9/2}^{-1})\nu h_{11/2}$.

@ Band(B): Magnetic-rotational band #2. Configuration=$\pi(g_{9/2}^{-1})\nu((g_{7/2}/d_{5/2})^2)(h_{11/2}))$.

& Band(C): Magnetic-rotational band #3. Configuration=$\pi(g_{9/2}^{-1})\nu((g_{7/2}/d_{5/2})(h_{11/2}^2))$ below the alignment, and $\pi(g_{9/2}^{-1})\nu(((g_{7/2}/d_{5/2})^2)(h_{11/2}^2))$ above the alignment.

[a] Band(D): Anti-magnetic rotational band #1. Configuration=$\pi((g_{9/2}^{-2})(d_{5/2}))\nu h_{11/2}$ below the alignment, and $\pi((g_{9/2}^{-2})(d_{5/2})\nu(h_{11/2}^3)$ above the alignment.

[b] Band(E): $\pi((g_{9/2}^{-2})(g_{7/2}))\nu h_{11/2}$ below the alignment and $\pi((g_{9/2}^{-2})(g_{7/2})\nu(h_{11/2}^3)$ above the alignment.

[c] Band(F): $\pi(g_{9/2}^{-1})\nu g_{7/2}$ below the alignment and $\pi(g_{9/2}^{-1})\nu((g_{7/2}/d_{5/2})^3)$ above the alignment.

[d] Band(G): $\pi(g_{9/2}^{-1})\nu(((g_{7/2}/d_{5/2})^2)(h_{11/2}))$(ABF).

[e] Band(H): Band based on 9$^+$.

[f] Band(I): Band based on (16$^-$).

γ(^{108}In)

DCO ratios correspond to gates on ΔJ=1, dipole transitions, unless otherwise stated.

Eγ	Iγ†	Ei(level)	Jiπ	Ef	Jfπ	Mult.	Comments
147.0 *1*	53.9 *16*	2662.07	11$^-$	2515.15	10$^-$	M1+E2	DCO=0.97 *2*. Other Iγ=37.6 *11*.
150.4# *1*	29.0 *6*	150.80	7$^+$	0.0	7$^+$	M1+E2	Eγ: Level-energy difference=150.8. DCO=1.68 *6*. DCO(ΔJ=2,Q gated)=0.98 *6*. Other Iγ=8.3 *8*.
153.5 *1*	88 *3*	2815.56	12$^-$	2662.07	11$^-$	M1+E2	DCO=0.96 *1*. Other Iγ=60.2 *18*.
186.2 *1*	2.5 *1*	4517.03	14$^+$	4330.84	13$^+$	M1+E2	DCO=1.09 *17*. Other Iγ=2.5 *1*.
213.1 *1*	100 *3*	1332.84	9$^-$	1119.48	8$^-$	M1+E2	DCO=0.94 *1*. DCO(ΔJ=2,Q gated)=0.50 *5*. Other Iγ=100 *3*.
223.3 *1*	7.0 *3*	3102.92	12$^-$	2879.43	11$^-$	M1+E2	DCO=0.85 *10*. Other Iγ=7.3 *3*.
230.8 *1*	96 *3*	3046.37	13$^-$	2815.56	12$^-$	M1+E2	DCO=0.97 *1*. Other Iγ=86 *3*.
237.0 *1*	29.2 *9*	1633.63	11$^+$	1396.58	9$^+$	E2	
255.9 *1*	10.8 *3*	4773.05	15$^+$	4517.03	14$^+$	M1+E2	DCO=0.92 *4*. Other Iγ=12.9 *4*.
290.3 *1*	1.5 *1*	2368.18	10$^-$	2077.76	9$^{(-)}$		Other Iγ=2.1 *8*.
293.7 *1*	5.1 *2*	2662.07	11$^-$	2368.18	10$^-$	M1+E2	DCO=0.88 *5*. Other Iγ=6.2 *2*.
307.1 *1*	0.7 *1*	5186.08		4878.98	15$^{(-)}$		

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^{76}Ge(^{37}Cl,5nγ) 2001Ch71 (continued)

γ(^{108}In) (continued)

E_γ	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	Comments
311.6 *1*	1.8 *1*	1119.48	8$^-$	807.77	8$^+$	E1	DCO=1.6 *3*. Other Iγ=1.0 *1*.
322.2 *1*	10.8 *4*	3425.17	13$^-$	3102.92	12$^-$	M1+E2	DCO=0.77 *14*. DCO(ΔJ=2,Q gated)=0.41 *3*. Other Iγ=13.0 *5*.
335.4 *1*	62.6 *19*	3382.06	14$^-$	3046.37	13$^-$	M1+E2	DCO=0.99 *2*. Other Iγ=60.5 *18*.
341.9 *3*	0.4 *1*	3102.92	12$^-$	2761.0			Other Iγ=2.4 *2*.
349.1 *1*	14.7 *5*	2815.56	12$^-$	2466.45	11$^-$	M1+E2	DCO=1.03 *3*. Other Iγ=15.6 *5*.
357.3 *1*	16.8 *5*	5130.46	16$^+$	4773.05	15$^+$	M1+E2	DCO=0.92 *4*. Other Iγ=21.2 *7*.
361.6 *1*	1.6 *1*	2439.39	10$^{(-)}$	2077.76	9$^{(-)}$	M1+E2	Other Iγ=0.7 *1*.
410.6 *1*	1.5 *1*	4382.98	15$^{(-)}$	3972.38	14$^{(-)}$	M1+E2	DCO=0.92 *12*. Other Iγ=1.6 *1*.
413.7 *1*	8.5 *3*	3838.87	14$^-$	3425.17	13$^-$	M1+E2	DCO=0.99 *11*. DCO(ΔJ=2,Q gated)=0.51 *5*. Other Iγ=10.5 *4*.
415.5 *1*	1.6 *1*	5492.36	(17$^-$)	5076.86	(16$^-$)	M1+E2	Other Iγ=2.3 *1*.
437.9 *1*	2.1 *2*	3445.97	(13$^-$)	3008.07	12$^-$	M1+E2	Other Iγ=2.4 *2*.
443.8 *1*	2.7 *1*	3064.38	13$^{(+)}$	2620.58	12$^+$	M1+E2	DCO(ΔJ=2,Q gated)=0.47 *6*. Other Iγ=3.3 *3*.
462.0 *1*	1.4 *1*	5954.36	(18$^-$)	5492.36	(17$^-$)	M1+E2	Other Iγ=1.4 *1*.
473.0[#] *1*	14.2 *4*	5603.92	17$^+$	5130.46	16$^+$	M1+E2	E_γ: Level-energy difference=473.5. DCO=0.87 *4*. Other Iγ=22.3 *7*.
493.3[@] *1*	1.0 *1*	6447.66	(19$^-$)	5954.36	(18$^-$)	M1+E2	Other Iγ=1.7 *1*.
506.0[#] *1*	2.6 *2*	2368.18	10$^-$	1861.83	10$^-$	M1+E2	E_γ: Level-energy difference=506.3. DCO=1.24 *21*. Other Iγ=3.4 *2*.
511.0 *1*	10.8 *5*	2879.43	11$^-$	2368.18	10$^-$	M1+E2	DCO=1.38 *10*. Other Iγ=6.0 *4*.
524.0 *1*	5.3 *2*	7235.14	(20$^+$)	6711.14	19$^+$	M1+E2	Other Iγ=11.7 *4*.
527.7[#@]	3.8 *2*	1861.29	8$^{(-)}$	1332.84	9$^-$	M1+E2	DCO=1.07 *1*. E_γ: Uncertainty of 0.1 keV quoted by 2001Ch71 seems to be underestimated since the least-squares adjustment gives Eγ=528.4 keV.
527.8 *1*	31.6 *10*	3910.10	15$^-$	3382.06	14$^-$	M1+E2	DCO=1.07 *1*. Other Iγ=35.1 *11*.
528.6[#] *1*	45.4 *15*	1861.83	10$^-$	1332.84	9$^-$	M1+E2	E_γ: Level-energy difference=529.0. DCO=1.07 *1*. Other Iγ=54.0 *17*.
541.5 *1*	14.2 *5*	3008.07	12$^-$	2466.45	11$^-$	M1+E2	DCO=0.90 *4*. Other Iγ=16.7 *6*.
542.4 *1*	4.3 *2*	6711.14	19$^+$	6168.78	18$^+$	M1+E2	Other Iγ=9.7 *3*.
542.5[@] *3*	0.3 *1*	8558.2?	(22$^+$)	8015.7	(21$^+$)	M1+E2	Other Iγ=1.1 *2*.
553.1 *1*	4.1 *2*	4101.16	13$^{(-)}$	3548.08	11$^{(-)}$	E2	DCO(ΔJ=2,Q gated)=0.89 *13*. Other Iγ=4.3 *2*.
564.4[#] *1*	8.1 *3*	6168.78	18$^+$	5603.92	17$^+$	M1+E2	E_γ: Level-energy difference=564.9. DCO=0.58 *7*. Other Iγ=17.3 *5*.
570.7 *1*	2.9 *2*	3010.09		2439.39	10$^{(-)}$		
575.5 *1*	1.1 *1*	4485.60	(16$^-$)	3910.10	15$^-$	M1+E2	Other Iγ=3.0 *2*.
576.0 *1*	0.7 *1*	7287.14	(20$^+$)	6711.14	19$^+$	M1+E2	Other Iγ=2.9 *1*.

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^{76}Ge(^{37}Cl,5nγ) 2001Ch71 (continued)

$\gamma(^{108}In)$ (continued)

E_γ	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	Comments
577.3[@] *2*	1.3 *1*	2439.39	$10^{(-)}$	1861.83	10^-	M1+E2	DCO(ΔJ=2,Q gated)=0.94 *5* for doublet. Other Iγ=5.3 *2*.
577.9 *1*	13.3 *5*	2439.39	$10^{(-)}$	1861.29	$8^{(-)}$	E2	DCO(ΔJ=2,Q gated)=0.94 *5* for doublet. Other Iγ=8.3 *4*.
585.1[#] *1*	7.2 *3*	5156.69	17^-	4571.25	16^-	M1+E2	E_γ: Level-energy difference=585.4. DCO=0.70 *9*. Other Iγ=14.4 *5*.
588.7 *1*	2.7 *2*	1396.58	9^+	807.77	8^+	M1+E2	
596.0 *1*	2.8 *1*	7831.14	(21^+)	7235.14	(20^+)	M1+E2	Other Iγ=7.6 *3*.
604.3[#] *1*	31.2 *10*	2466.45	11^-	1861.83	10^-	M1+E2	E_γ: Level-energy difference=604.6. DCO=1.13 *3*. Other Iγ=34.9 *11*.
613.4 *1*	2.8 *1*	4878.98	$15^{(-)}$	4265.60	$14^{(-)}$	M1+E2	Other Iγ=3.3 *2*.
619.9[‡@]		2253.53		1633.63	11^+		
625.9 *1*	3.1 *2*	2879.43	11^-	2253.53			Other Iγ=3.3 *3*.
632.5[@] *1*	3.1 *2*	4471.37?	(15^-)	3838.87	14^-	M1+E2	Other Iγ=2.1 *3*.
635.5 *1*	2.7 *2*	3643.57	13^-	3008.07	12^-	M1+E2	DCO=1.26 *16*. Other Iγ=3.9 *2*.
656.5[#] *1*	21.6 *7*	807.77	8^+	150.80	7^+	M1+E2	E_γ: Level-energy difference=657.0. DCO=1.55 *13*. Other Iγ=11.0 *4*.
660.9 *1*	12.7 *4*	4571.25	16^-	3910.10	15^-	M1+E2	DCO=0.94 *7*. Other Iγ=18.8 *6*.
728.6 *2*	0.3 *1*	8015.7	(21^+)	7287.14	(20^+)	M1+E2	Other Iγ=1.6 *1*.
735.9 *1*	2.1 *1*	5892.59	(18^-)	5156.69	17^-	M1+E2	Other Iγ=3.8 *2*.
740.3 *3*	0.5 *1*	8571.4	(22^+)	7831.14	(21^+)	M1+E2	Other Iγ=2.2 *1*.
741.6 *1*	3.3 *2*	1861.29	$8^{(-)}$	1119.48	8^-	M1+E2	Other Iγ=0.1 *2*.
744.9[‡@]		2077.76	$9^{(-)}$	1332.84	9^-		
749.2 *1*	9.1 *3*	1557.21	9^+	807.77	8^+	M1+E2	DCO=1.30 *13*. Other Iγ=6.1 *3*.
753.4 *1*	1.4 *2*	904.42	(7^-)	150.80	7^+	E1	Other Iγ=0.8 *2*.
777.8 *1*	15.5 *5*	4878.98	$15^{(-)}$	4101.16	$13^{(-)}$	E2	DCO=2.08 *20*. DCO(ΔJ=2,Q gated)=1.02 *8*. Other Iγ=17.6 *6*.
782.0 *1*	3.0 *2*	3828.41	15^-	3046.37	13^-	E2	DCO=2.1 *3*. Other Iγ=3.1 *2*.
800.3 *1*	3.1 *1*	2662.07	11^-	1861.83	10^-	M1+E2	DCO=1.55 *25*. Other Iγ=3.5 *2*.
804.1 *1*	4.6 *2*	6611.38	19	5807.23	17	E2	DCO(ΔJ=2,Q gated)=0.94 *13*. Other Iγ=6.6 *3*.
804.8 *2*	0.9 *1*	3425.17	13^-	2620.58	12^+	E1	Other Iγ=1.2 *3*.
827.0 *1*	10.0 *4*	4101.16	$13^{(-)}$	3274.11	$12^{(-)}$	M1+E2	DCO=1.44 *15*. DCO(ΔJ=2,Q gated)=0.52 *9*. Other Iγ=11.9 *5*.
828.3 *1*	7.9 *2*	5707.23	17	4878.98	$15^{(-)}$	E2	DCO=1.44 *15*. Other Iγ=11.5 *4*.
834.7 *1*	19.0 *7*	3274.11	$12^{(-)}$	2439.39	$10^{(-)}$	E2	DCO=1.76 *18*. DCO(ΔJ=2,Q gated)=1.10 *10*. Other Iγ=18.4 *7*.
856.9[‡@]		2253.53		1396.58	9^+		
864.2[#] *1*	2.0 *1*	3910.10	15^-	3046.37	13^-	E2	B(E2)(W.u.)=5.4 *+23−10* E_γ: Level-energy difference=863.7.
904.2 *1*	7.2 *3*	6611.38	19	5707.23	17	E2	DCO(ΔJ=2,Q gated)=1.05 *10*. Other Iγ=10.2 *4*.

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^{76}Ge(^{37}Cl,5nγ) 2001Ch71 (continued)

$\gamma(^{108}In)$ (continued)

E_γ	I_γ [†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	Comments
905.3[@] *2*	0.5 *1*	904.42	(7^-)	0.0	7^+	E1	
926.0 *1*	3.3 *2*	3972.38	$14^{(-)}$	3046.37	13^-	M1+E2	DCO=1.5 *3*. Other Iγ=4.3 *2*.
928.2 *1*	6.0 *2*	5807.23	17	4878.98	$15^{(-)}$	E2	DCO=1.6 *4*. DCO(ΔJ=2,Q gated)=1.02 *10*. Other Iγ=7.3 *3*.
956.7 *1*	3.5 *2*	1861.29	$8^{(-)}$	904.42	(7^-)	M1+E2	Other Iγ=0.1 *2*.
957.8 *1*	8.6 *3*	2515.15	10^-	1557.21	9^+	E1	DCO=1.10 *11*. Other Iγ=7.2 *2*.
958.0 *3*	0.5 *2*	2077.76	$9^{(-)}$	1119.48	8^-	M1+E2	Other Iγ=1.2 *7*.
968.7 *1*	7.4 *1*	1119.48	8^-	150.80	7^+		DCO=0.91 *9*. Other Iγ=5.2 *8*.
971.7 *1*	1.8 *1*	2368.18	10^-	1396.58	9^+	E1	Other Iγ=2.0 *2*.
984.5 *1*	1.6 *1*	6588.42	18^+	5603.92	17^+	M1+E2	DCO=1.5 *3*. Other Iγ=4.8 *2*.
987.0 *1*	4.3 *2*	2620.58	12^+	1633.63	11^+	M1+E2	DCO(ΔJ=2,Q gated)=0.63 *6*. Other Iγ=5.0 *6*.
991.5 *1*	4.5 *2*	4265.60	$14^{(-)}$	3274.11	$12^{(-)}$	E2	DCO(ΔJ=2,Q gated)=0.95 *26*. Other Iγ=6.1 *4*.
1002.4 *1*	4.6 *2*	7613.79	21	6611.38	19	E2	DCO(ΔJ=2,Q gated)=0.95 *13*. Other Iγ=9.7 *4*.
1017.9 *2*	1.1 *1*	2879.43	11^-	1861.83	10^-	M1+E2	DCO=1.3 *4*. Other Iγ=1.2 *1*.
1028.2 *1*	2.2 *1*	2662.07	11^-	1633.63	11^+	E1	DCO=2.2 *5*. DCO(ΔJ=2,Q gated)=0.79 *21*. Other Iγ=2.1 *2*.
1035.1 *1*	2.5 *2*	2368.18	10^-	1332.84	9^-	M1+E2	Other Iγ=4.8 *3*.
1038.8[#] *1*	1.3 *1*	6168.78	18^+	5130.46	16^+	E2	B(E2)(W.u.)=19.3 *22* E_γ: Level-energy difference=1038.3. Other Iγ=2.3 *2*.
1043.0 *1*	4.6 *2*	2439.39	$10^{(-)}$	1396.58	9^+	E1	DCO(ΔJ=2,Q gated)=0.48 *12*. Other Iγ=4.6 *3*.
1098.4 *6*	0.5 *2*	2431.2		1332.84	9^-		Other Iγ=3.6 *4*.
1106.6 *1*	3.6 *2*	2439.39	$10^{(-)}$	1332.84	9^-	M1+E2	Other Iγ=4.1 *2*.
1107.7 *1*	1.0 *1*	6711.14	19^+	5603.39		E2	B(E2)(W.u.)=55 *+19−12* Other Iγ=1.1 *1*.
1108.7 *1*	4.5 *3*	3548.08	$11^{(-)}$	2439.39	$10^{(-)}$	M1+E2	Other Iγ=4.5 *5*.
1119.4 *1*	156.6 *10*	1119.48	8^-	0.0	7^+	E1	DCO=1.06 *2*. Other Iγ=74 *3*.
1133.8 *1*	4.8 *3*	2466.45	11^-	1332.84	9^-	E2	DCO=1.77 *16*. Other Iγ=4.6 *3*.
1146.7 *2*	1.4 *2*	3008.07	12^-	1861.83	10^-	E2	Other Iγ=0.4 *3*.
1159.9 *4*	1.0 *1*	7748.3		6588.42	18^+		I_γ: from thin target.
1179.0 *1*	2.0 *1*	8792.80	(23)	7613.79	21	E2	Other Iγ=6.1 *3*.
1182.2 *1*	18.9 *6*	2515.15	10^-	1332.84	9^-	M1+E2	DCO=2.50 *10*. Other Iγ=18.7 *6*.
1189.1 *1*	1.4 *1*	4571.25	16^-	3382.06	14^-	E2	B(E2)(W.u.)=2.51 *+34−24*
1220.5 *1*	2.5 *1*	5130.46	16^+	3910.10	15^-	E1	B(E1)(W.u.)=7.1×10^{-5} *+7−8* DCO=1.4 *5*. Other Iγ=3.1 *1*.
1245.9 *1*	3.6 *2*	1396.58	9^+	150.80	7^+	E2	DCO(ΔJ=2,Q gated)=1.04 *15*.
1246.9[#] *1*	1.0 *1*	5156.69	17^-	3910.10	15^-	E2	E_γ: Level-energy difference=1246.6.
1248.8 *2*	1.2 *1*	2368.18	10^-	1119.48	8^-	E2	Other Iγ=1.2 *2*.
1256.1 *5*	0.7 *2*	4135.5		2879.43	11^-		
1284.3 *1*	1.6 *2*	2617.14		1332.84	9^-		Other Iγ=0.5 *3*.

Continued on next page (footnotes at end of table)

^{76}Ge(^{37}Cl,5nγ) 2001Ch71 (continued)

$\gamma(^{108}In)$ (continued)

E_γ	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	Comments
1329.5 *1*	21.8 *7*	2662.07	11^-	1332.84	9^-	E2	DCO=1.97 *13*. Other Iγ=18.7 *6*.
1343.7 *1*	1.1 *1*	4408.09	(15^+)	3064.38	$13^{(+)}$	E2	Other Iγ=1.0 *2*.
1391.0 *1*	8.1 *3*	4773.05	15^+	3382.06	14^-	E1	DCO=0.90 *10*. Other Iγ=10.2 *3*.
1396.0[#] *1*	24.5 *8*	2515.15	10^-	1119.48	8^-	E2	E_γ: Level-energy difference=1395.7. DCO=1.89 *11*. Other Iγ=22.7 *7*.
1396.8 *1*	33.4 *19*	1396.58	9^+	0.0	7^+	E2	DCO(ΔJ=2,Q gated)=1.11 *4*. Other Iγ=7.2 *8*.
1406.5 *1*	2.8 *1*	1557.21	9^+	150.80	7^+	E2	
1469.4 *1*	4.1 *2*	3102.92	12^-	1633.63	11^+	E1	DCO(ΔJ=2,Q gated)=0.60 *7*. Other Iγ=4.6 *3*.
1470.5 *1*	9.9 *3*	4517.03	14^+	3046.37	13^-	E1	DCO=1.04 *9*. Other Iγ=9.8 *3*.
1515.3 *1*	1.9 *1*	4330.84	13^+	2815.56	12^-	E1	DCO=0.89 *22*. Other Iγ=2.3 *2*.
1581.4 *10*	0.2 *1*	5492.36	(17^-)	3910.10	15^-	E2	
1608.9 *1*	1.1 *1*	7212.83	(19^+)	5603.92	17^+	E2	
1694.8 *1*	2.7 *1*	5076.86	(16^-)	3382.06	14^-	E2	Other Iγ=1.8 *1*.
1709.5 *1*	1.3 *1*	5537.93		3828.41	15^-		Other Iγ=0.4 *1*.
1774.8 *2*	0.5 *1*	5603.39		3828.41	15^-		
1861.5 *1*	7.3 *4*	1861.29	$8^{(-)}$	0.0	7^+	E1	DCO(ΔJ=2,Q gated)=0.52 *4*. Other Iγ=0.3 *6*.

[†] For backed target. Intensities from thin target are given under comments as 'Other Iγ'.
[‡] From figure 2 of 2001Ch71.
[#] Poor fit. Least-squares fitted value deviates by 0.3-0.5 keV from the measured value given in Table iii of 2001Ch71. The value from level-energy difference is given under comments.
[@] Placement of transition in the level scheme is uncertain.

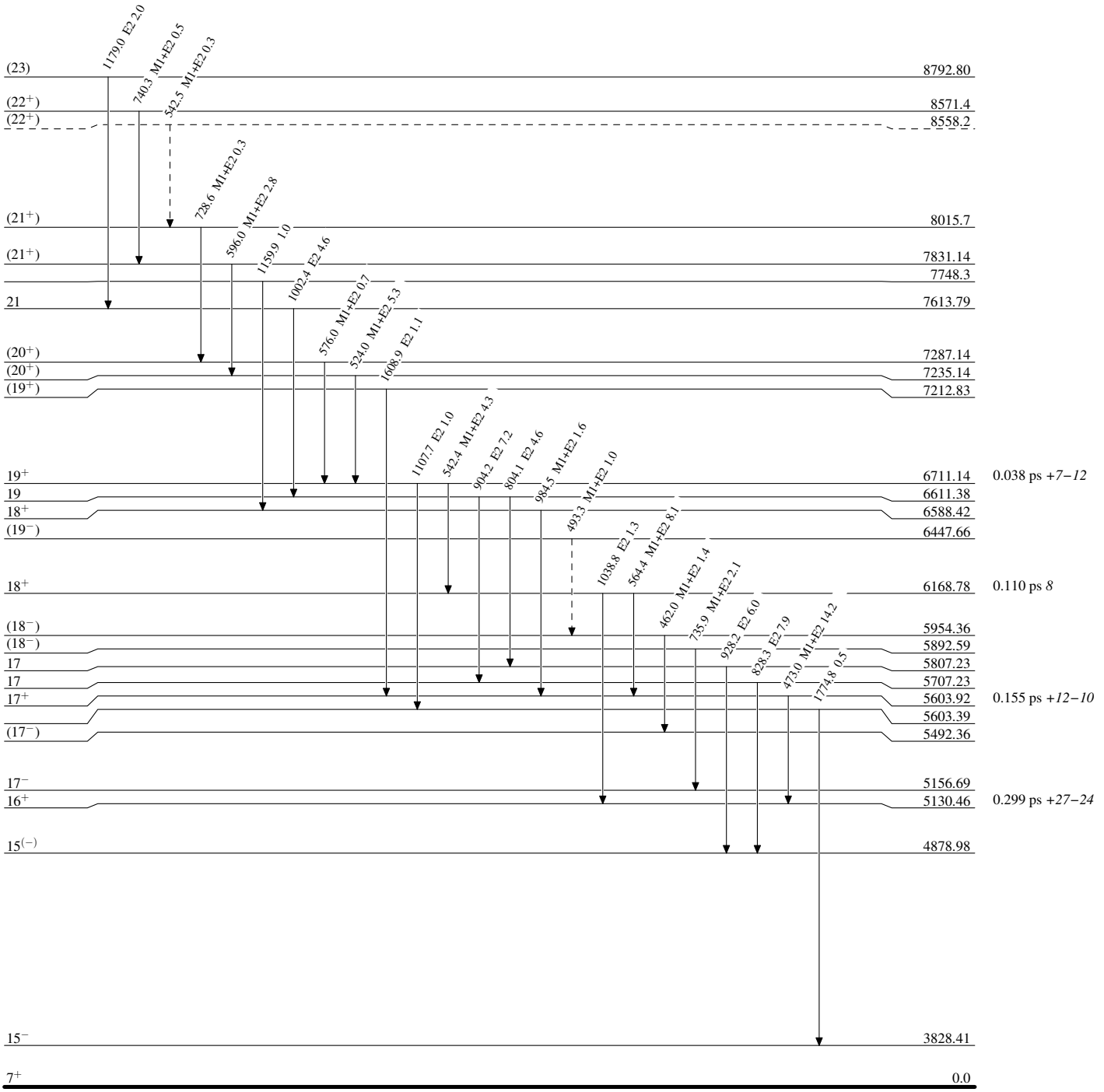
$^{76}Ge(^{37}Cl,5n\gamma)$ 2001Ch71

Level Scheme

Intensities: Relative I_γ

Legend

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



$^{108}_{49}In_{59}$

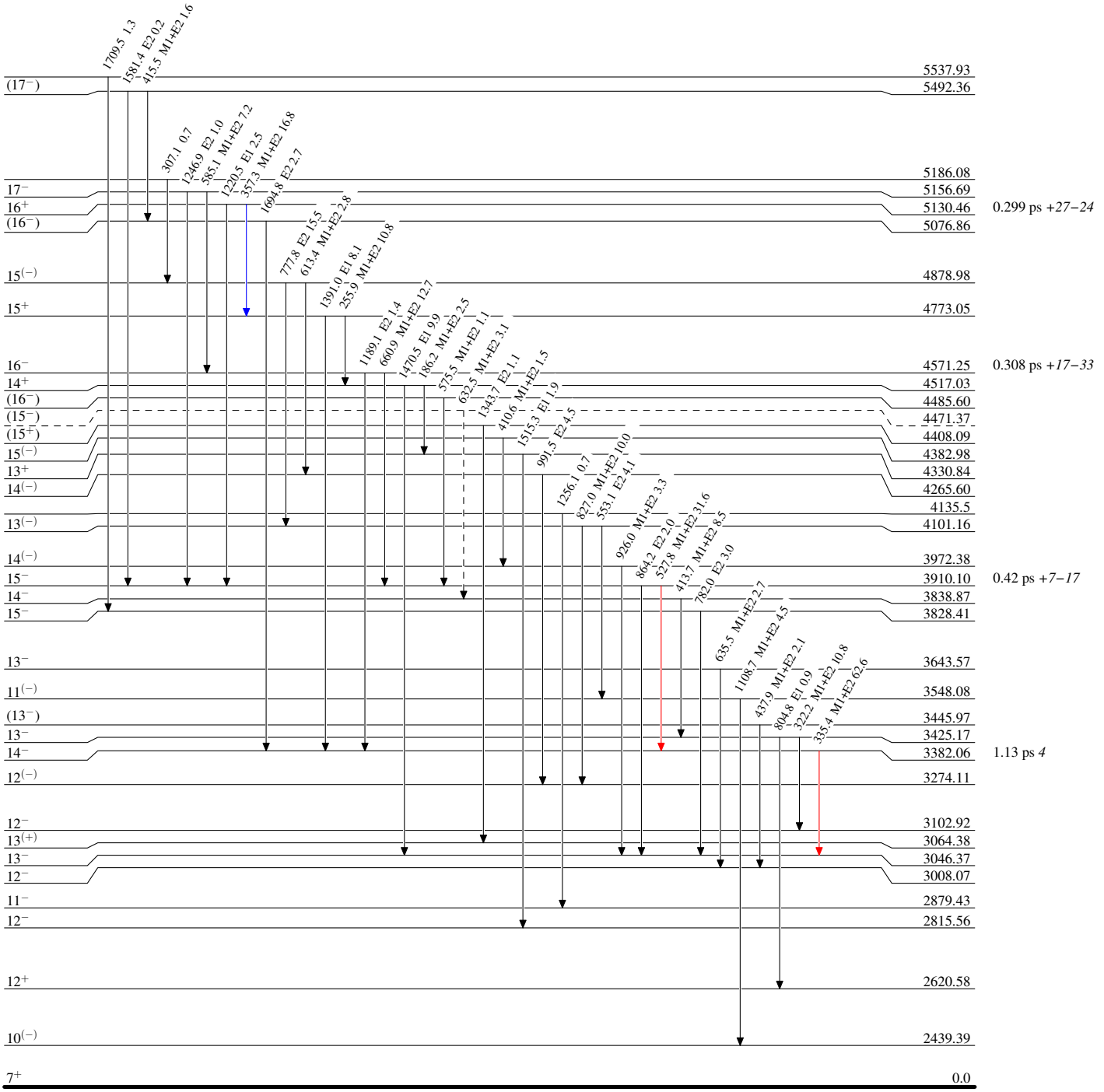
^{76}Ge(^{37}Cl,5nγ) 2001Ch71

Level Scheme (continued)

Intensities: Relative I_γ

Legend

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



$^{108}_{49}In_{59}$

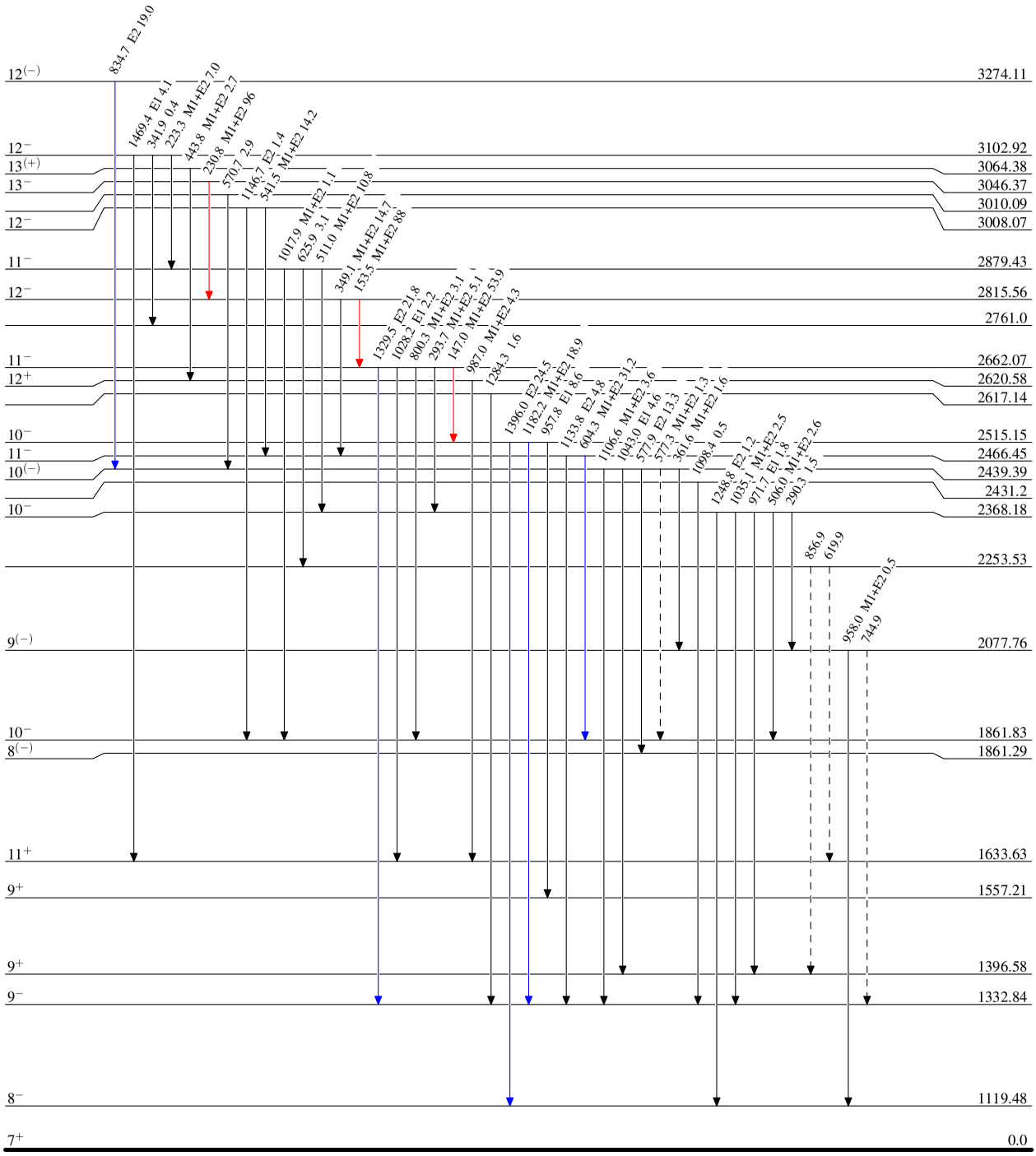
$^{76}Ge(^{37}Cl,5n\gamma)$ 2001Ch71

Level Scheme (continued)

Intensities: Relative I_γ

Legend

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

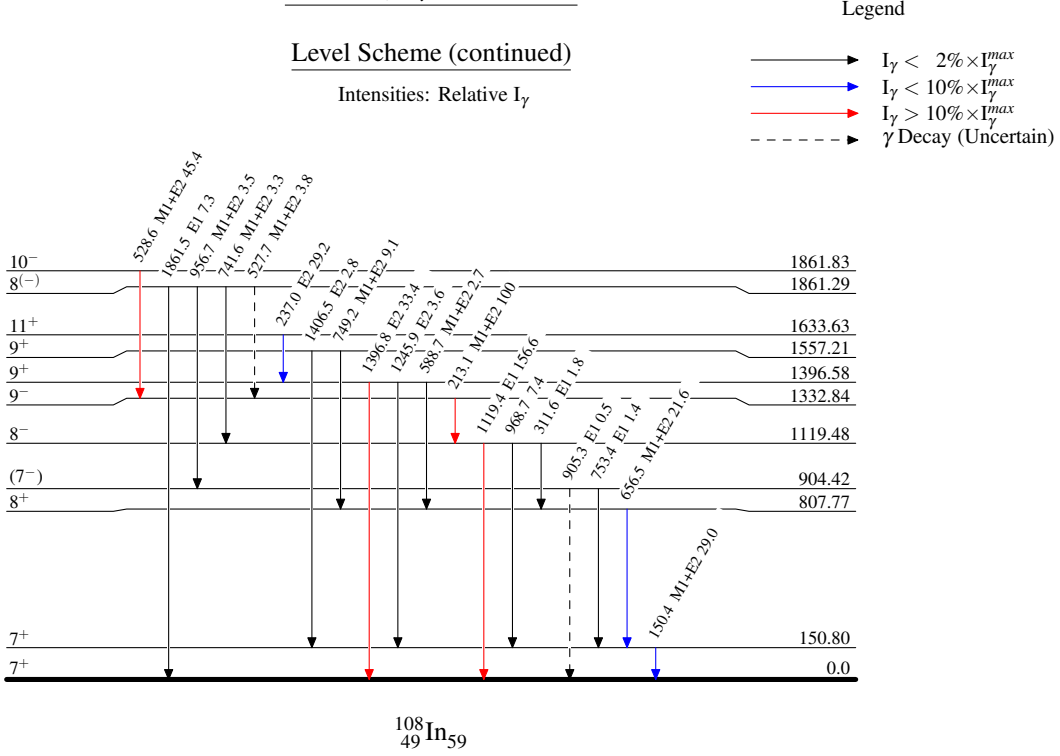


$^{108}_{49}In_{59}$

^{76}Ge(^{37}Cl,5nγ) 2001Ch71

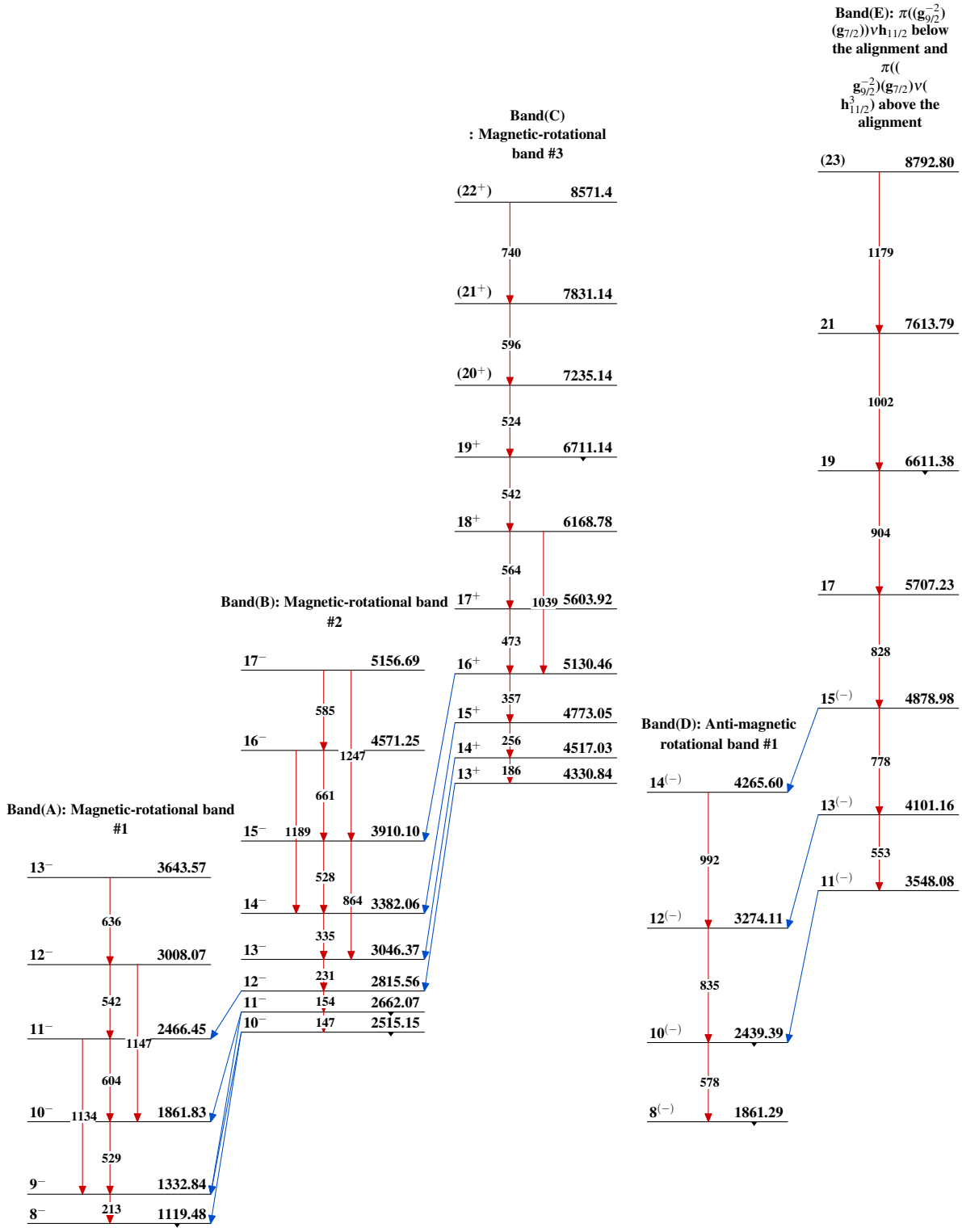
Level Scheme (continued)

Intensities: Relative I_γ



$^{108}_{49}In_{59}$

$^{76}Ge(^{37}Cl,5n\gamma)$ 2001Ch71



$^{108}_{49}In_{59}$

$^{76}Ge(^{37}Cl,5n\gamma)$ 2001Ch71 (continued)