^{109}Ag(α,2nγ) 1997Lo09,1991Vi08

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 110, 1239 (2009)	1-Feb-2008

All the references are from the same laboratory.
E(α)=20-30 MeV (1997Lo09,1991Vi08,1991ViZY).
1997Lo09 measured: Eγ, Iγ, $\gamma\gamma$, $\gamma(\theta)$.
1991Vi08 measured: Eγ, Iγ, $\gamma\gamma$, $\gamma(\theta)$.
1991ViZY measured: $T_{1/2}$, Doppler shift.
1978He10 measured: Eγ, Iγ, $\gamma\gamma$ coin, $\gamma(\theta)$, γ(t), excit.
1980Le05 measured: $\gamma(\theta$,H,t).
Others: ^{108}Pd(^{6}Li,3nγ) $\gamma\gamma$-coin, γ(t), $\gamma(\theta)$, excit (1976GaZY).

^{111}In Levels

E(level)	J^{π}[†]	$T_{1/2}$[‡]	Comments
0.0[#]	9/2$^+$		
536.88 *21*			
802.61 *19*			
1101.56 *9*			
1152.87[#] *9*	11/2$^+$	0.31 ps *7*	E(level): syst with first 11/2$^+$ excitations in ^{109}In (at 1026) and ^{113}In (at 1173).
1217.39 *16*	5/2$^+$	1.2 ps *+7−5*	
1279.7 *3*	5/2$^-$		
1344.43 *22*	3/2$^+$		
1401.15[#] *8*	13/2$^+$		
1500.49 *14*	9/2$^+$	0.31 ps *10*	
1542.41 *18*	7/2$^+$		
1610.14 *14*	9/2$^+$		
1670.9 *3*			
1752.53 *12*	9/2$^+$	0.4 ps *+3−1*	
1866.60 *19*			
1914.62 *15*	(7/2,9/2$^+$)		
1917.1 *4*	(7/2,9/2$^+$)		
1933.7 *5*	(7/2$^-$)		
1969.7 *4*			
1994.73[#] *10*	15/2$^+$	0.3 ps *1*	
2032.29 *22*	13/2$^+$	0.7 ps *3*	J^{π}: 11/2$^+$ in Adopted Levels.
2034.3 *6*	(5/2,7/2$^-$)		
2106.49 *18*			
2112.26 *12*	13/2$^+$		
2179.39 *18*	(11/2$^+$)		
2228.14 *19*		0.28 ps *7*	
2235.25[@] *9*	13/2$^-$	0.2 ps *1*	
2246.71 *19*			
2311.1 *5*			
2340.3 *4*			
2402.35[@] *11*	15/2$^-$	0.6 ps *3*	
2439.48 *17*		0.38 ps *10*	
2461.64[#] *11*	17/2$^+$	0.52 ps *17*	
2529.73 *25*			
2580.80 *19*			
2582.6 *4*			
2602.00 *14*			
2614.12[@] *13*	17/2$^-$		
2650.41? *16*	15/2$^-$		

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^{109}Ag(α,2nγ) 1997Lo09,1991Vi08 (continued)

^{111}In Levels (continued)

E(level)	J$^{\pi}$[†]	T$_{1/2}$[‡]	Comments
2699.07 *22*			
2707.62 *19*	15/2$^+$	1.1 ps *4*	
2716.74 *23*	21/2$^+$	13.7 ns *4*	g=0.502 *18* (1980Le05); g=+0.47 *2* (1981Va15) T$_{1/2}$: weighted av of: 13.8 ns *5* (1978He10), 14.8 ns *8* (1980Le05), 13.3 ns *4* (1981Va15). J$^{\pi}$: g9/2 proton-hole state coupled to two-proton 2d$_{5/2}$,1g$_{7/2}$ configuration associated with 14-ns, 6$^+$ state in ^{112}Sn (1978He10).
2737.80[@] *15*	19/2$^-$		
2748.33 *18*	(11/2,13/2$^+$)		
2768.91 *13*	17/2$^-$	>1.4 ps	
2772.5 *3*	17/2$^+$	1.0 ps *3*	
2780.04 *17*	19/2$^+$	1.0 ps *+6−3*	
2797.9 *5*			
2825.69 *20*			
2892.93 *23*			
2905.03 *20*			
2920.0 *3*			
2941.35 *23*	(17/2$^-$)		
2968.0 *4*			
2979.8? *4*	(19/2$^-$)		
3019.30[@] *18*	21/2$^-$	>1.4 ps	
3043.71 *18*	(19/2$^-$)	1.0 ps *+10−3*	
3157.3? *4*	(21/2$^-$)		
3209.3 *4*			
3214.7 *5*			
3259.3 *3*	25/2$^+$		
3363.4 *3*			
3425.0 *3*	(21/2,23/2$^-$)		
3452.6? *5*	23/2$^-$	1.5 ps *+15−5*	
3461.11[@] *21*	23/2$^-$	0.75 ps *25*	
3588.7 *4*	21/2$^+$		
3862.2 *5*			
4020.5? *5*			
4199.5 *4*		0.65 ps *+25−15*	

[†] Based partly on angular distribution coef, γ-ray excitation functions and multipole orders.
[‡] From 1991ViZY, otherwise noted.
[#] Band(A): g9/2 proton-hole state coupled to ^{112}Sn core quadrupole vibrations. For comparison of γ-ray branching and mixing ratios (exp vs theory), see 1978He10.
[@] Band(B): possibly g$_{9/2}$ proton-hole state coupled to 3$^-$,5$^-$,7$^-$ excitations in ^{112}Sn core (1978He10). ΔJ=1 π=− sequence is consistent with γ-cascade observed by 1976GaZY via (^{6}Li,3nγ).

γ(^{111}In)

E$_{\gamma}$[†]	I$_{\gamma}$[†]	E$_i$(level)	J$_i^{\pi}$	E$_f$	J$_f^{\pi}$	Mult.[@]	δ[&]	Comments
118.4 *2*	1.6 *3*	2768.91	17/2$^-$	2650.41?	15/2$^-$	M1+E2		Mult.: A$_2$=− 0.22 *5*, A$_4$=+ 0.06 *8*.
123.7 *1*	10.7 *5*	2737.80	19/2$^-$	2614.12	17/2$^-$	M1+E2	0.02 *3*	α(K)exp=0.45 *15* Mult.: A$_2$=− 0.24 *5*, A$_4$=+ 0.05 *7*.
[x]127.5[‡] *3*								Mult.: A$_2$=− 0.30 *6*, A$_4$=− 0.03 *6*.
167.0 *3*	0.9 *2*	2402.35	15/2$^-$	2235.25	13/2$^-$	M1+E2	0.00 *5*	Mult.: A$_2$=− 0.12 *6*, A$_4$=+ 0.05 *12*.

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^{109}Ag(α,2nγ) 1997Lo09,1991Vi08 (continued)

$\gamma(^{111}In)$ (continued)

E_γ[†]	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	δ[&]	Comments
177.5 *2*	3.6 *3*	3157.3?	(21/2$^-$)	2979.8?	(19/2$^-$)			α(K)exp=0.029 *14* Mult.: A_2=− 0.23 *3*, A_4=+ 0.03 *6*.
197.4[#] *1*	2.3 *3*	2905.03		2707.62	15/2$^+$			Mult.: A_2=− 0.34 *6*, A_4=− 0.10 *12*.
[x]204.1[‡] *2*								α(K)exp=0.046 *20* Mult.: A_2=− 0.21 *2*, A_4=+ 0.02 *2*.
210.9 *3*	5.0 *4*	2979.8?	(19/2$^-$)	2768.91	17/2$^-$	(M1+E2)		
211.6 *2*	49 *2*	2614.12	17/2$^-$	2402.35	15/2$^-$	M1+E2	+0.00 *3*	Mult.: α(K)exp=0.053 *20*, K/L=9.6 *45*,A_2=−0.19 *1*, A_4=+0.01 *2* for Eγ=210.9+221.6.
242.9 *2*	1.3 *3*	1344.43	3/2$^+$	1101.56		M1,(E2)		
248.2 *2*	1.0 *5*	1401.15	13/2$^+$	1152.87	11/2$^+$	M1+E2	−0.03 *3*	α(K)exp=0.029 *12* Mult.: A_2=−0.20 *3*, A_4=−0.04 *5*.
252.0 *3*	0.2 *1*	1752.53	9/2$^+$	1500.49	9/2$^+$	M1+E2		
255.1 *2*	7.9 *4*	2716.74	21/2$^+$	2461.64	17/2$^+$	E2		α(K)exp=0.040 *10* Mult.: A_2= 0.22 *2*, A_4=− 0.07 *4*.
265.7 *1*	6.7 *4*	802.61		536.88		M1+E2		Mult.: A_2=−0.14 *3*, A_4=−0.03 *5*.
274.8 *2*	2.8 *3*	3043.71	(19/2$^-$)	2768.91	17/2$^-$	(M1+E2)	+0.05 *7*	Mult.: A_2=− 0.19 *4*, A_4=− 0.09 *8*.
281.5 *1*	11.4 *5*	3019.30	21/2$^-$	2737.80	19/2$^-$	M1+E2	+0.01 *3*	α(K)exp=0.025 *18* Mult.: A_2=− 0.21 *4*, A_4=− 0.01 *16*.
295.3 *2*	3.0 *3*	3452.6?	23/2$^-$	3157.3?	(21/2$^-$)	(M1+E2)	+0.05 *2*	Mult.: A_2=− 0.16 *4*, A_4=+ 0.01 *7*.
298.9 *3*	0.2 *1*	1101.56		802.61		E1		
318.4[#] *2*	1.0 *2*	2780.04	19/2$^+$	2461.64	17/2$^+$	M1+E2	+0.06 *5*	Mult.: A_2=− 0.13 *7*, A_4=− 0.07 *13*.
319.7[#] *2*	1.3 *2*	3363.4		3043.71	(19/2$^-$)			
329.4[#] *2*	1.2 *2*	2768.91	17/2$^-$	2439.48				Mult.: A_2=− 0.13 *11*, A_4=+ 0.05 *19*.
335.4 *2*	1.2 *2*	2737.80	19/2$^-$	2402.35	15/2$^-$			
347.4[#] *4*	0.3 *1*	2582.6		2235.25	13/2$^-$			
[x]360.7[‡] *3*								Mult.: A_2= 0.14 *8*, A_4=− 0.18 *9*.
366.6 *1*	7.9 *4*	2768.91	17/2$^-$	2402.35	15/2$^-$	M1+E2	+0.02 *2*	α(K)exp=0.010 *4* Mult.: A_2=− 0.17 *3*, A_4=+ 0.01 *6*.
[x]371.3[‡] *3*								Mult.: A_2=− 0.13 *6*, A_4=− 0.03 *6*.
381.3[#] *2*	1.0 *2*	3425.0	(21/2,23/2$^-$)	3043.71	(19/2$^-$)	(M1+E2)		Mult.: A_2=− 0.14 *5*, A_4=− 0.01 *9*.
398.7 *3*	0.3 *1*	1500.49	9/2$^+$	1101.56		E2		
414.8 *2*	12.3	1217.39	5/2$^+$	802.61		E1		I_γ: Iγ(414.8γ+415.1γ)=12.3.
415.1 *2*	12.3	2650.41?	15/2$^-$	2235.25	13/2$^-$	M1+E2	+0.09 *1*	Mult.: A_2=− 0.08 *3*, A_4=+ 0.01 *6*. I_γ: see Eγ=414.8.
422.2[#] *5*	0.4 *2*	2032.29	13/2$^+$	1610.14	9/2$^+$	(E2)		
429.6 *2*	1.6 *2*	3043.71	(19/2$^-$)	2614.12	17/2$^-$			Mult.: A_2=− 0.13 *4*, A_4=− 0.08 *8*.
441.8 *1*	3.7 *3*	3461.11	23/2$^-$	3019.30	21/2$^-$	M1+E2	+0.07 *2*	α(K)exp=0.015 *6* Mult.: A_2=− 0.13 *4*, A_4=− 0.03 *6*.
457.2 *2*	1.4 *2*	1610.14	9/2$^+$	1152.87	11/2$^+$	M1+E2	+0.18 *5*	Mult.: A_2=− 0.19 *3*, A_4= 0.04 *6*.
466.9 *1*	13.3 *6*	2461.64	17/2$^+$	1994.73	15/2$^+$	M1+E2	+0.05 *2*	α(K)exp=0.017 *7* Mult.: A_2=− 0.13 *2*, A_4=− 0.01 *3*.
472.4[#] *5*	0.2 *1*	2707.62	15/2$^+$	2235.25	13/2$^-$	(E1)		
476.8 *3*	0.2 *1*	1279.7	5/2$^-$	802.61		(M1+E2)		
498.0[#] *4*	0.8 *3*	3214.7		2716.74	21/2$^+$			
502.9[#] *4*	0.6 *2*	2905.03		2402.35	15/2$^-$			Mult.: A_2= 0.07 *5*, A_4= 0.26 *11*.
531.8 *2*	4.4 *4*	2032.29	13/2$^+$	1500.49	9/2$^+$	E2		Mult.: A_2= 0.27 *3*, A_4=− 0.09 *6*.
536.9 *2*		536.88		0.0	9/2$^+$	M4		
539.0[#] *2*	2.0 *3*	2941.35	(17/2$^-$)	2402.35	15/2$^-$	(M1+E2)	−0.1 *5*	Mult.: A_2=− 0.32 *6*, A_4=− 0.04 *12*.
542.6[#] *2*	1.3 *2*	3259.3	25/2$^+$	2716.74	21/2$^+$	E2		Mult.: A_2= 0.20 *5*, A_4= 0.06 *9*.
564.11 *3*	0.7 *3*	2106.49		1542.41	7/2$^+$			Mult.: A_2=− 0.17 *4*, A_4=− 0.05 *7*.
565.7[#] *3*	1.1 *2*	2968.0		2402.35	15/2$^-$			Mult.: A_2=− 0.16 *5*, A_4=− 0.11 *10*.

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^{109}Ag(α,2nγ) 1997Lo09,1991Vi08 (continued)

$\gamma(^{111}In)$ (continued)

E_γ †	I_γ †	E_i(level)	J_i^π	E_f	J_f^π	Mult. @	δ &	Comments
567.9 *2*	1.5 *2*	4020.5?		3452.6?	23/2$^-$			
587.8# *5*	0.3 *1*	2582.6		1994.73	15/2$^+$			
593.5 *1*	23.0 *8*	1994.73	15/2$^+$	1401.15	13/2$^+$	M1+E2	+0.16 *5*	α(K)exp=0.0057 *15* Mult.: A_2= 0.05 *4*, A_4=− 0.02 *5*.
599.5# *3*	1.0 *2*	1752.53	9/2$^+$	1152.87	11/2$^+$	M1+E2	+0.3 *1*	Mult.: A_2=− 0.26 *5*, A_4=− 0.08 *9*.
605.9 *3*	1.3 *3*	2106.49		1500.49	9/2$^+$			Mult.: A_2= 0.40 *10*, A_4=− 0.13 *15*.
619.2 *2*	3.1 *3*	2614.12	17/2$^-$	1994.73	15/2$^+$	[E1]		Mult.: A_2=− 0.24 *6*, A_4=− 0.05 *9*.
636.6# *2*	1.0 *2*	2246.71		1610.14	9/2$^+$			
649.3 *3*	0.2 *1*	1866.60		1217.39	5/2$^+$			
650.9 *2*	2.3 *3*	1752.53	9/2$^+$	1101.56		E2		Mult.: A_2= 0.16 *4*, A_4=− 0.03 *7*.
655.5# *4*	0.4 *2*	2650.41?	15/2$^-$	1994.73	15/2$^+$	(E1)		Mult.: A_2= 0.33 *11*, A_4= 0.27 *22*.
685.6# *4*	0.6 *2*	2797.9		2112.26	13/2$^+$			Mult.: A_2=− 0.07 *7*, A_4=− 0.05 *14*.
738.4 *3*	1.1 *2*	4199.5		3461.11	23/2$^-$			
740.2# *2*	2.5 *3*	2772.5	17/2$^+$	2032.29	13/2$^+$	E2		Mult.: A_2= 0.28 *4*, A_4=− 0.15 *8*.
742.9 *2*	2.9 *3*	1279.7	5/2$^-$	536.88		E2		Mult.: A_2=0.27 *4*, A_4=−0.02 *5*.
761.6 *2*	0.9 *3*	1914.62	(7/2,9/2$^+$)	1152.87	11/2$^+$			
765.0 *2*	0.4 *2*	1866.60		1101.56				
774.1# *3*	0.6 *2*	2768.91	17/2$^-$	1994.73	15/2$^+$			
785.3# *2*	4.7 *4*	2780.04	19/2$^+$	1994.73	15/2$^+$	E2		Mult.: A_2= 0.25 *4*, A_4=− 0.05 *7*.
807.0# *3*	1.0 *2*	3209.3		2402.35	15/2$^-$			
815.5 *3*	0.7 *3*	1917.1	(7/2,9/2$^+$)	1101.56				
828.2# *2*	2.4 *3*	2580.80		1752.53	9/2$^+$			
831.1# *4*	0.6 *2*	2825.69		1994.73	15/2$^+$			
834.1# *1*	1.4 *3*	2235.25	13/2$^-$	1401.15	13/2$^+$	(E1)		Mult.: A_2=− 0.01 *8*, A_4=+ 0.09 *16*.
841.8 *2*	3.5 *3*	1994.73	15/2$^+$	1152.87	11/2$^+$	E2		α(K)exp=0.0010 *6* Mult.: A_2= 0.18 *8*, A_4=− 0.05 *12*.
868.3 *2*	0.2 *1*	1670.9		802.61				
898.2# *2*	1.1 *2*	2892.93		1994.73	15/2$^+$			Mult.: A_2=− 0.12 *5*, A_4=− 0.08 *10*.
953.7 *3*	0.5 *2*	2106.49		1152.87	11/2$^+$			
959.4# *1*	3.6 *4*	2112.26	13/2$^+$	1152.87	11/2$^+$	M1+E2	−0.06 *3*	Mult.: A_2=− 0.24 *3*, A_4= 0.07 *6*.
996.1 *6*	0.2 *1*	2340.3		1344.43	3/2$^+$			
1001.2 *1*	53 *3*	2402.35	15/2$^-$	1401.15	13/2$^+$	E1		α(K)exp=0.0004 *1*; K/L=6 *3* Mult.: A_2=− 0.26 *3*, A_4=+ 0.01 *7*.
1026.5 *2*	1.0 *2*	2179.39	(11/2$^+$)	1152.87	11/2$^+$			
1038.3# *2*	4.0 *4*	2439.48		1401.15	13/2$^+$			Mult.: A_2= 0.18 *4*, A_4= 0.06 *8*.
1060.5 *1*	4.7 *3*	2461.64	17/2$^+$	1401.15	13/2$^+$	E2		α(K)exp=0.0007 *4* Mult.: A_2= 0.32 *5*, A_4=− 0.06 *9*.
1075.2# *2*	3.7 *3*	2228.14		1152.87	11/2$^+$			
1082.3 *1*	6.1 *4*	2235.25	13/2$^-$	1152.87	11/2$^+$	E1		α(K)exp=0.0004 *3* Mult.: A_2=− 0.24 *3*, A_4=+ 0.08 *9*.
1101.5 *1*	9.0 *5*	1101.56		0.0	9/2$^+$	E2		Mult.: A_2=0.08 *4*, A_4=−0.01 *6*.
1127.1# *3*	0.9 *3*	3588.7	21/2$^+$	2461.64	17/2$^+$	E2		Mult.: A_2= 0.43 *4*, A_4=− 0.20 *7*.
1131.1 *4*	0.5 *1*	1933.7	(7/2$^-$)	802.61		E2		Mult.: A_2= 0.18 *8*, A_4= 0.01 *10*.
1152.9 *1*	36.6 *9*	1152.87	11/2$^+$	0.0	9/2$^+$	M1+E2	0.50 *4*	α(K)exp=0.0007 *2*; K/L=10 *5* Mult.: A_2=+0.27 *3*, A_4=+0.01 *3*. Others: α(K)exp=0.00085 *15*, A_2=+0.46 *4*, K/L=10 5.
1167.1 *3*	0.5 *2*	1969.7		802.61				
1179.8# *3*	0.7 *3*	2580.80		1401.15	13/2$^+$			
1201.4# *4*	0.6 *2*	2602.00		1401.15	13/2$^+$			
1212.6# *3*	0.8 *3*	2614.12	17/2$^-$	1401.15	13/2$^+$			

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^{109}Ag(α,2nγ) 1997Lo09,1991Vi08 (continued)

$\gamma(^{111}In)$ (continued)

E_γ †	I_γ †	E_i(level)	J_i^π	E_f	J_f^π	Mult. @	δ &	Comments
1217.4 *2*	4.5 *3*	1217.39	$5/2^+$	0.0	$9/2^+$	E2		Mult.: A_2=0.05 *5*, A_4=−0.06 *8*.
1231.7 *5*	0.4 *2*	2034.3	$(5/2,7/2^-)$	802.61		(E2)		
1238.6 *5*	0.4 *2*	2340.3		1101.56				
1297.9# *3*	0.8 *3*	2699.07		1401.15	$13/2^+$			
1306.4# *2*	3.8 *3*	2707.62	$15/2^+$	1401.15	$13/2^+$	M1+E2	−0.06 *2*	Mult.: A_2=− 0.26 *2*, A_4=− 0.03 *4*.
1347.1# *2*	1.4 *2*	2748.33	$(11/2,13/2^+)$	1401.15	$13/2^+$			Mult.: A_2= 0.31 *8*, A_4=+ 0.01 *3*.
1401.1 *1*	100 *4*	1401.15	$13/2^+$	0.0	$9/2^+$	E2		α(K)exp=0.0006 *2*; K/L=8.5 *25* Mult.: A_2= 0.31 *1*, A_4=− 0.08 *5*.
1424.5# *2*	1.2 *2*	2825.69		1401.15	$13/2^+$	E2		Mult.: A_2= 0.29 *5*, A_4=− 0.08 *8*.
1449.7# *3*	0.8 *2*	2602.00		1152.87	$11/2^+$			
1500.5 *2*	9.3 *5*	1500.49	$9/2^+$	0.0	$9/2^+$	M1+E2	−0.41 *4*	
1508.5 *4*	0.5 *2*	2311.1		802.61				
1518.8# *3*	1.0 *3*	2920.0		1401.15	$13/2^+$			Mult.: A_2= 0.16 *6*, A_4=− 0.04 *11*.
1542.4 *2*	0.5 *3*	1542.41	$7/2^+$	0.0	$9/2^+$	M1+E2	−0.37 *9*	Mult.: A_2= 0.12 *4*, A_4=− 0.03 *7*.
1546.2# *3*	0.8 *3*	2699.07		1152.87	$11/2^+$			
1595.6# *3*	0.8 *2*	2748.33	$(11/2,13/2^+)$	1152.87	$11/2^+$			Mult.: A_2= 0.05 *5*, A_4=− 0.07 *9*.
1610.2 *2*	4.9 *3*	1610.14	$9/2^+$	0.0	$9/2^+$	M1+E2		Mult.: A_2=− 0.27 *3*, A_4=− 0.10 *5*.
1727.1# *4*	0.4 *2*	2529.73		802.61				
1752.6 *2*	2.3 *2*	1752.53	$9/2^+$	0.0	$9/2^+$	M1,E2		Mult.: A_2=− 0.28 *7*, A_4=− 0.14 *10*.
1767.2# *5*	0.3 *1*	2920.0		1152.87	$11/2^+$			
1867.5# *5*	0.3 *1*	3862.2		1994.73	$15/2^+$			
1914.7 *2*	1.1 *2*	1914.62	$(7/2,9/2^+)$	0.0	$9/2^+$			Mult.: A_2= 0.12 *7*, A_4= 0.10 *12*.
2106.5 *4*	0.4 *2*	2106.49		0.0	$9/2^+$			Mult.: A_2= 0.22 *11*, A_4= 0.17 *22*.
2112.2# *2*	2.8 *2*	2112.26	$13/2^+$	0.0	$9/2^+$	E2		Mult.: A_2= 0.25 *3*, A_4=− 0.14 *6*.
2179.3 *3*	0.5 *2*	2179.39	$(11/2^+)$	0.0	$9/2^+$			
2228.2# *4*	0.3 *1*	2228.14		0.0	$9/2^+$	M1+E2	+0.26 *2*	Mult.: A_2= 0.09 *2*, A_4=− 0.07 *4*.
2246.6# *3*	1.6 *3*	2246.71		0.0	$9/2^+$			
2529.7# *3*	1.2 *3*	2529.73		0.0	$9/2^+$			

† From 1991Vi08.
‡ From 1978He10.
# First time identified by 1991Vi08.
@ Deduced from α(K)exp and/or A_2 (1997Lo09).
& Deduced from angular distribution coefficients A_2,A_4 (1997Lo09,1978He10).
x γ ray not placed in level scheme.

^{109}Ag(α,2nγ) 1997Lo09,1991Vi08

Level Scheme

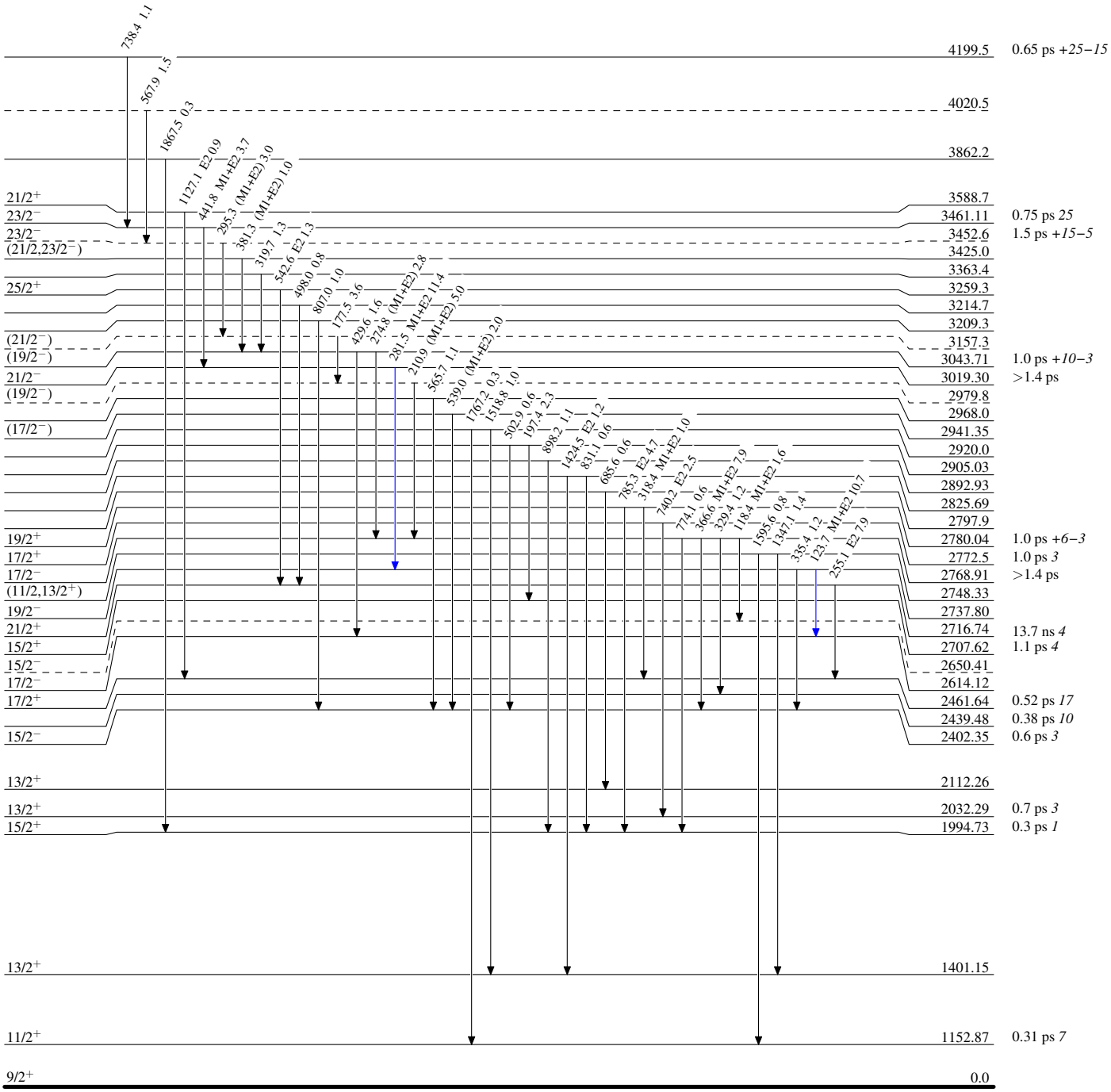
Intensities: Type not specified

Legend

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

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

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



$^{111}_{49}In_{62}$

^{109}Ag(α,2nγ) 1997Lo09,1991Vi08

Level Scheme (continued)

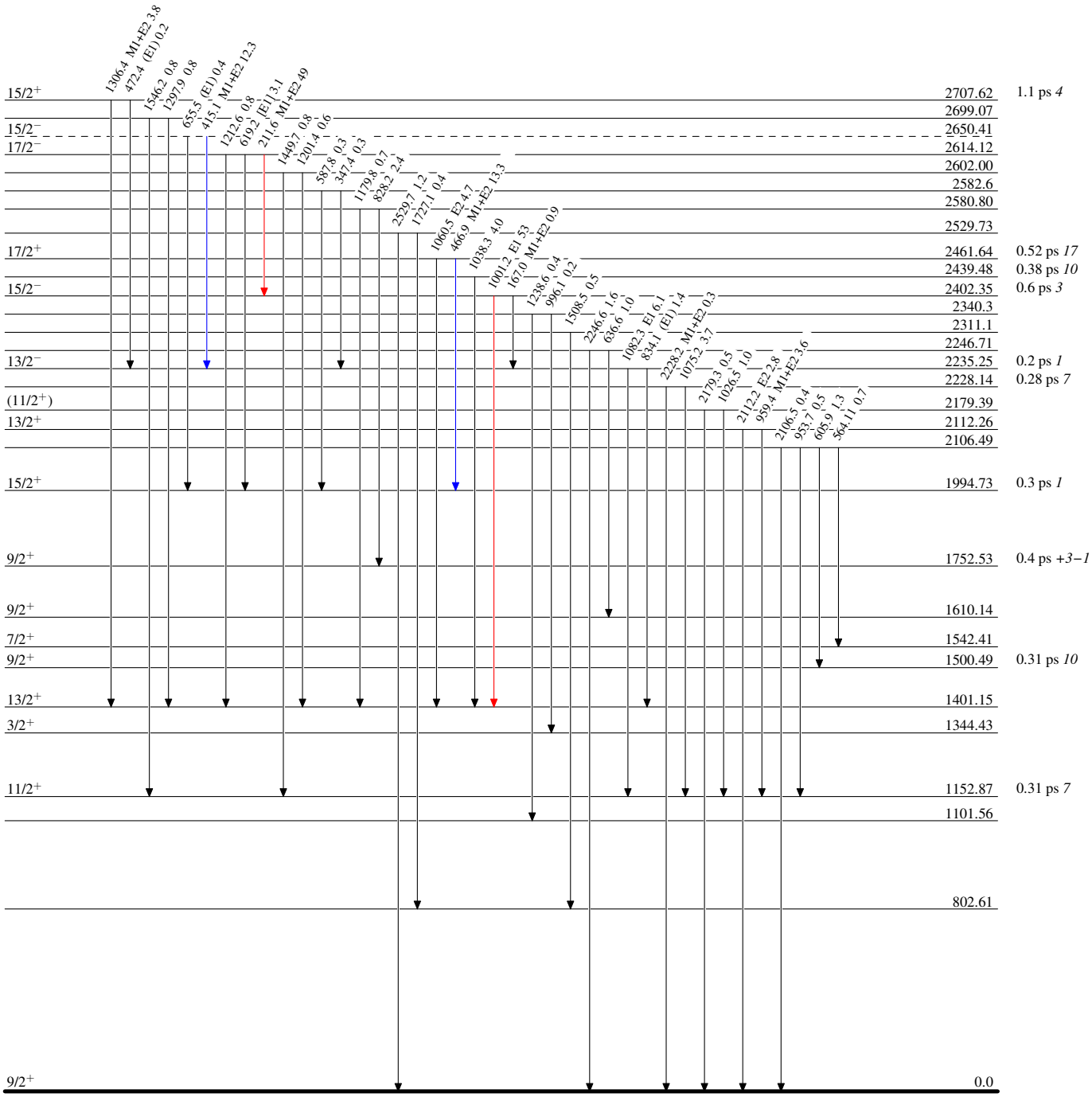
Intensities: Type not specified

Legend

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

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

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

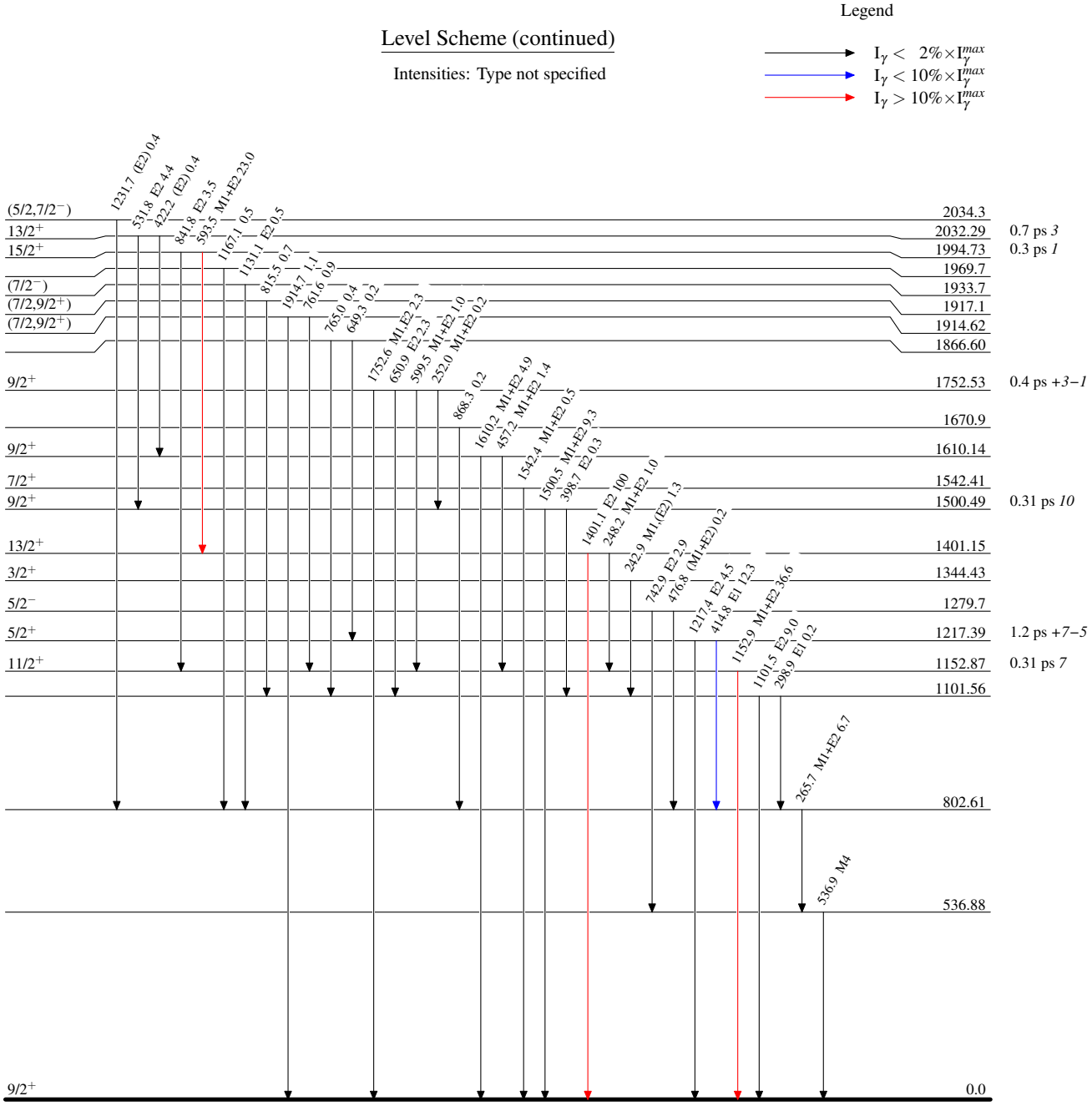


$^{111}_{49}In_{62}$

^{109}Ag(α,2nγ) 1997Lo09,1991Vi08

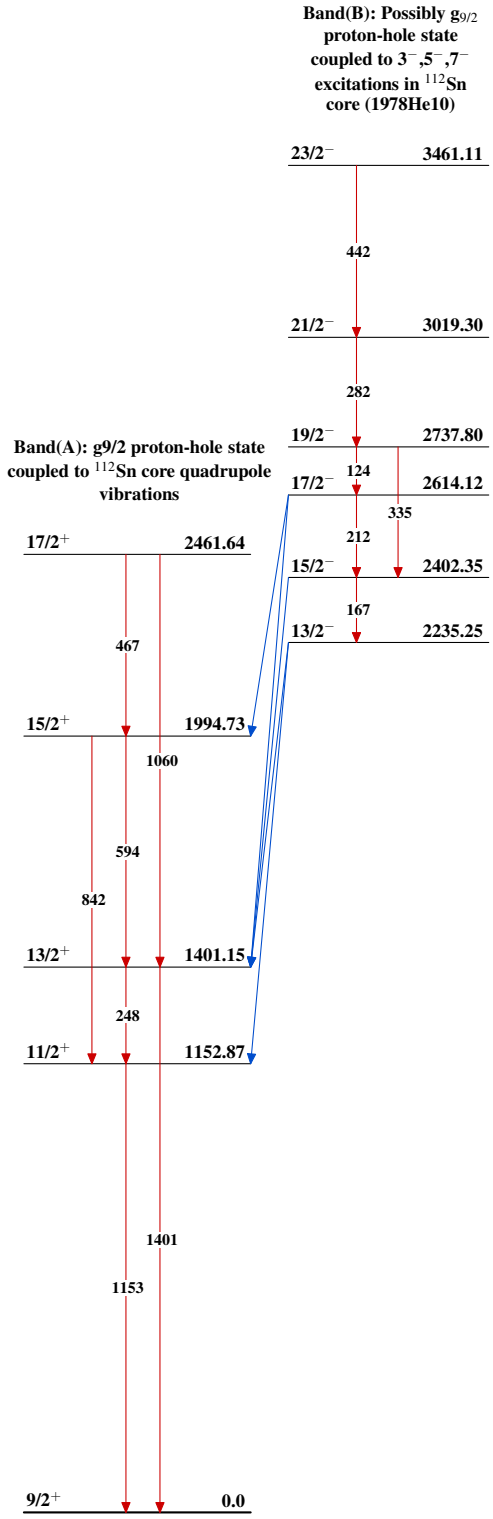
Level Scheme (continued)

Intensities: Type not specified



$^{111}_{49}In_{62}$

^{109}Ag(α,2nγ) 1997Lo09,1991Vi08



$^{111}_{49}In_{62}$