^{68}Zn(p,nγ) 1993Ti03

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 113, 1735 (2012)	1-Mar-2012

All data are from 1993Ti03, unless indicated otherwise.

1993Ti03: E(p)=4.5-5.1 MeV. Measured Eγ, Iγ, γγ coincidences, internal conversion electrons, and σ(E(p),Eγ) with four HPGe detectors (FWHM=2 keV at 1.3 MeV), a LEPS (FWHM=0.8 keV at 0.12 keV) and magnetic plus Si(Li) spectrometer; Hauser-Feshbach analysis.

1987LaZU: E(p)=1.5-4.4 MeV. Measured Eγ, Iγ.

1968Bi01,1968Bi03: E(p)=3.1-5.2 MeV. Measured Eγ, Iγ, γ(θ), and excitation function with two Ge(Li) detectors (ΔE=0.1 keV).

1967Me18: E(p)=5.8 MeV. Measured internal conversion electrons, γ(θ).

Other: 1995Fe15, 1966Re05.

α: Additional information 1.

^{68}Ga Levels

E(level)†	Jπ‡	Comments
0	1^+	
175.017 *7*	2^+	Jπ: 2 from γ(θ) (1968Bi03) and Hauser-Feshbach analysis (1993Ti03); π from M1(+E2) 175γ to 1^+.
320.976 *10*	1^+	Jπ: 1 from Hauser-Feshbach analysis (1993Ti03); π from M1(+E2) 321γ to 1^+.
374.571 *12*	2^+	Jπ: 2 from γ(θ) of 375γ (1968Bi03) and Hauser-Feshbach analysis (1993Ti03); π from M1+E2 374.6γ to 1^+.
375.577 *10*	3^+	Jπ: 3 from γ(θ) of 201γ (1968Bi03); π from M1+E2 201γ to 2^+.
496.094 *16*	4^+	Jπ: 4 from Hauser-Feshbach analysis (1993Ti03); π from M1(+E2) 121γ to 3^+.
514.298 *15*	1^+	Jπ: 1 from Hauser-Feshbach analysis (1993Ti03); π from M1(+E2) 339γ to 2^+.
555.471 *15*	0^+	Jπ: 0 from Hauser-Feshbach analysis (1993Ti03); π from M1 555γ to 1^+.
564.525 *12*	2^+	Jπ: 2 from Hauser-Feshbach analysis (1993Ti03); π from M1(+E2) 565γ to 1^+.
583.790 *15*	2^-	Jπ: 2 from Hauser-Feshbach analysis (1993Ti03); π from E1(+M2) 584γ to 1^+.
676.045 *19*	3^+	Jπ: 3 from Hauser-Feshbach analysis (1993Ti03); π from M1 501γ to 2^+.
806.161 *17*	4^+	Jπ: 4 from Hauser-Feshbach analysis (1993Ti03); π from M1(+E2) 310γ to 4^+.
825.340 *14*	$1^+,2^+$	
838.720 *16*	$1^+,2^+$	
841.185 *18*	3^+	Jπ: 3 from Hauser-Feshbach analysis (1993Ti03); π from M1(+E2) 467γ to 2^+.
876.751 *18*	4^-	Jπ: 4 from Hauser-Feshbach analysis (1993Ti03); π from E2 293γ to 2^-.
946.866 *17*	$1^+,2^+$	
1055.95 *3*	3^-	Jπ: 3 from Hauser-Feshbach analysis (1993Ti03); π from M1(+E2) 472γ to 2^-.
1064.116 *21*	(1,2,3)	
1101.203 *20*	(1,2,3)	
1103.53 *3*	5^-	Jπ: 5 from Hauser-Feshbach analysis (1993Ti03), 607γ to 4^+.
1117.148 *22*	$0^+,1^+,2^+$	
1123.181 *18*	$1^+,2,3^+$	
1210.55 *4*	$2^+,3^+$	
1216.18 *8*	$2^+,3,4^+$	
1223.25 *12*	$(5)^+$	
1225.17 *3*	$1^+,2,3^+$	
1228.81 *3*	(1,2)	
1231.70 *3*	(3,4)	
1239.85 *3*	(0,1,2)	
1267.21 *3*	$(1,2)^+$	
1287.00 *5*	$2^+,3,4^+$	
1296.43 *5*	(2,3,4)	

† From least-squares fit to Eγ′s by evaluator.

‡ From 1993Ti03. Supporting arguments for definite spin assignments are noted in the Comments.

^{68}Zn(p,nγ) 1993Ti03 (continued)

γ(^{68}Ga)

α(K)(exp): From 1993Ti04 normalized to α(K)=0.0142 (2008Ki07) for 175γ assumed to be M1. Note that 1993Ti04 and 1993Ti03 in (p,nγ) quote the same set of values for transitions seen in the two reactions, which are a weighted average of their (α,nγ) and (p,nγ) measurements.

E_γ [†]	I_γ [‡]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	δ[#]	α	Comments
120.52 *2*	67 *4*	496.094	4^+	375.577	3^+	M1(+E2)	<0.21	0.045 *3*	α(K)exp=0.043 *6* α(K)=0.040 *3*; α(L)=0.0043 *4*; α(M)=0.00063 *5*; α(N+..)=3.29×10^{-5} *21*
128.06 *8*	0.9 *2*	1231.70	(3,4)	1103.53	5^-				
139.74 *3*	7.9 *5*	514.298	1^+	374.571	2^+	D			α(K)exp=0.022 *5*
145.94 *2*	21.6 *12*	320.976	1^+	175.017	2^+	M1(+E2)	<0.16	0.0255	α(K)exp=0.022 *4* α(K)=0.0228 *4*; α(L)=0.00239 *4*; α(M)=0.000349 *5*; α(N+..)=1.86×10^{-5} *3*
175.01 *1*	1000 *53*	175.017	2^+	0	1^+	M1		0.01592	Mult.: α(K)=0.0142 for mult=M1 is used by the evaluator as the normalization value. δ=+0.01 *2* from γ(θ) (1967Me18).
188.91 *8*	1.4 *2*	564.525	2^+	375.577	3^+				
189.93 *7*	7.6 *5*	564.525	2^+	374.571	2^+				
193.26 *8*	2.5 *3*	514.298	1^+	320.976	1^+				
199.52 *16*	11.7 *7*	374.571	2^+	175.017	2^+				
200.56 *1*	199 *10*	375.577	3^+	175.017	2^+	M1+E2	+0.25[@] *5*	0.0136 *10*	α(K)exp=0.018 *3* α(K)=0.0121 *9*; α(L)=0.00128 *10*; α(M)=0.000186 *14*; α(N+..)=9.8×10^{-6} *7* α(K)exp: Other: 0.0095 *8* (1967Me18). Mult.: D+Q with δ=+0.25 *5* from γ(θ) (1968Bi03); M1+E2 from α(K)exp. δ: Other: 0.54 *12* from α(K)exp.
234.49 *2*	16.2 *9*	555.471	0^+	320.976	1^+	M1(+E2)	<0.24	0.0082 *6*	α(K)exp=0.0078 *14* α(K)=0.0073 *6*; α(L)=0.00076 *6*; α(M)=0.000111 *9*; α(N+..)=5.9×10^{-6} *4*
238.66 *15*	1.2 *2*	1064.116	(1,2,3)	825.340	1^+,2^+				
243.53 *3*	9.0 *5*	564.525	2^+	320.976	1^+	M1(+E2)	<0.21	0.0073 *4*	α(K)exp=0.0069 *13* α(K)=0.0065 *4*; α(L)=0.00068 *4*; α(M)=9.9×10^{-5} *6*; α(N+..)=5.3×10^{-6} *3*
260.86 *6*	2.4 *3*	825.340	1^+,2^+	564.525	2^+				
262.91 *9*	1.3 *2*	583.790	2^-	320.976	1^+				
270.75 *10*	1.0 *2*	946.866	1^+,2^+	676.045	3^+				
275.95 *15*	2.1 *8*	1101.203	(1,2,3)	825.340	1^+,2^+				
276.67 *4*	6.8 *4*	841.185	3^+	564.525	2^+	M1(+E2)	<0.19	0.00523 *21*	α(K)exp=0.0048 *12* α(K)=0.00467 *18*; α(L)=0.000482 *20*; α(M)=7.1×10^{-5} *3*; α(N+..)=3.78×10^{-6} *14*

^{68}Zn(p,nγ) 1993Ti03 (continued)

γ(^{68}Ga) (continued)

E_γ [†]	I_γ [‡]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	δ[#]	α	Comments
278.34 *17*	0.7 *2*	1117.148	$0^+,1^+,2^+$	838.720	$1^+,2^+$				
283.25 *7*	3.6 *3*	838.720	$1^+,2^+$	555.471	0^+				
284.34 *24*	0.5 *3*	1123.181	$1^+,2,3^+$	838.720	$1^+,2^+$				
292.98 *2*	20.2 *12*	876.751	4^-	583.790	2^-	E2		0.01297	α(K)exp=0.0109 *17* α(K)=0.01155 *17*; α(L)=0.001230 *18*; α(M)=0.000179 *3*; α(N+..)=9.08×10^{-6} *13*
297.78 *14*	1.1 *5*	1123.181	$1^+,2,3^+$	825.340	$1^+,2^+$				
300.40 *5*	8.5 *5*	676.045	3^+	375.577	3^+	M1(+E2)	<0.34	0.0045 *4*	α(K)exp=0.0044 *10* α(K)=0.0040 *4*; α(L)=0.00042 *4*; α(M)=6.1×10^{-5} *6*; α(N+..)=3.3×10^{-6} *3*
310.07 *2*	10.9 *6*	806.161	4^+	496.094	4^+	M1(+E2)	<0.38	0.0042 *5*	α(K)exp=0.0042 *10* α(K)=0.0038 *4*; α(L)=0.00039 *5*; α(M)=5.7×10^{-5} *6*; α(N+..)=3.1×10^{-6} *3*
320.98 *2*	402 *21*	320.976	1^+	0	1^+	M1(+E2)	+0.05[@] *5*	0.00353 *7*	α(K)exp=0.0036 *6* α(K)=0.00315 *6*; α(L)=0.000324 *7*; α(M)=4.74×10^{-5} *9*; α(N+..)=2.55×10^{-6} *5* Mult.: D(+Q) with δ=+0.05 *5* from γ(θ) (1968Bi03); M1(+E2) from α(K)exp. δ: <0.31 from α(K)exp.
321.05 *7*	3.1 *9*	496.094	4^+	175.017	2^+				
339.28 *2*	234 *12*	514.298	1^+	175.017	2^+	M1(+E2)	<0.28	0.00324 *18*	α(K)exp=0.0031 *5* α(K)=0.00290 *16*; α(L)=0.000298 *17*; α(M)=4.36×10^{-5} *25*; α(N+..)=2.34×10^{-6} *13*
345.11 *4*	6.1 *4*	841.185	3^+	496.094	4^+				
354.97 *5*	1.6 *5*	1231.70	(3,4)	876.751	4^-				
374.57 *2*	389 *20*	374.571	2^+	0	1^+	M1+E2	−0.07[@] *4*	0.00244 *4*	α(K)exp=0.0026 *4* α(K)=0.00218 *4*; α(L)=0.000224 *4*; α(M)=3.27×10^{-5} *6*; α(N+..)=1.77×10^{-6} *3* Mult.: D+Q with δ=−0.07 *4* from weighted average of −0.10 *5* and −0.03 *5* from γ(θ) (1968Bi03); M1+E2 from α(K)exp. δ: Other: <0.66 from α(K)exp.
375.60 *3*	91 *5*	375.577	3^+	0	1^+				
380.65 *3*	5.0 *3*	876.751	4^-	496.094	4^+				
382.44 *11*	1.9 *8*	946.866	$1^+,2^+$	564.525	2^+				
389.51 *2*	21.9 *11*	564.525	2^+	175.017	2^+	M1(+E2)	<0.23	0.00222 *4*	α(K)exp=0.0019 *4* α(K)=0.00198 *3*; α(L)=0.000203 *3*; α(M)=2.97×10^{-5} *5*; α(N+..)=1.601×10^{-6} *23*
408.78 *4*	3.5 *3*	583.790	2^-	175.017	2^+				
419.72 *6*	1.7 *2*	1296.43	(2,3,4)	876.751	4^-				
430.59 *2*	9.1 *5*	806.161	4^+	375.577	3^+				
432.54 *4*	3.9 *3*	946.866	$1^+,2^+$	514.298	1^+				

$^{68}_{31}Ga_{37}$-3

^{68}Zn(p,nγ) 1993Ti03 (continued)

γ(^{68}Ga) (continued)

E_γ [†]	I_γ [‡]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	δ[#]	α	Comments
441.98 *12*	1.0 *2*	1267.21	(1,2)$^+$	825.340	1$^+$,2$^+$				
449.79 *3*	8.6 *5*	825.340	1$^+$,2$^+$	375.577	3$^+$				
450.88 *16*	4.6 *4*	825.340	1$^+$,2$^+$	374.571	2$^+$				
464.24 *7*	15.2 *8*	838.720	1$^+$,2$^+$	374.571	2$^+$	M1(+E2)	<0.45	0.001474 *21*	α(K)exp=0.0012 *3* α=0.001474 *21*; α(K)=0.001319 *19*; α(L)=0.0001345 *19*; α(M)=1.97×10^{-5} *3* α(N+..)=1.064×10^{-6}
465.65 *7*	7.7 *16*	841.185	3$^+$	375.577	3$^+$				
466.60 *2*	40.9 *21*	841.185	3$^+$	374.571	2$^+$	M1(+E2)	<0.38	0.00153 *8*	α(K)exp=0.0014 *3* α(K)=0.00137 *8*; α(L)=0.000140 *8*; α(M)=2.05×10^{-5} *12*; α(N+..)=1.11×10^{-6} *6*
472.16 *2*	38.3 *20*	1055.95	3$^-$	583.790	2$^-$	M1(+E2)	<0.84	0.00147 *6*	α(K)exp=0.0014 *3* α(K)=0.00132 *6*; α(L)=0.000134 *6*; α(M)=1.97×10^{-5} *8*; α(N+..)=1.06×10^{-6} *4*
501.04 *2*	91 *5*	676.045	3$^+$	175.017	2$^+$	M1(+E2)	<0.38	0.001238 *18*	α(K)exp=0.00102 *19* α=0.001238 *18*; α(K)=0.001108 *16*; α(L)=0.0001128 *16*; α(M)=1.651×10^{-5} *24* α(N+..)=8.93×10^{-7} *13*
501.15 *3*	13 *5*	876.751	4$^-$	375.577	3$^+$				
504.33 *3*	11.3 *6*	825.340	1$^+$,2$^+$	320.976	1$^+$				
514.31 *10*	46 *9*	514.298	1$^+$	0	1$^+$				
517.74 *2*	100 *5*	838.720	1$^+$,2$^+$	320.976	1$^+$	M1(+E2)	<0.45	0.001150 *16*	α(K)exp=0.00097 *18* α=0.001150 *16*; α(K)=0.001029 *15*; α(L)=0.0001047 *15*; α(M)=1.532×10^{-5} *22* α(N+..)=8.29×10^{-7} *12*
536.77 *16*	1.0 *2*	1101.203	(1,2,3)	564.525	2$^+$				
555.47 *2*	107 *6*	555.471	0$^+$	0	1$^+$	M1(+E2)	<0.52	0.00104 *7*	α(K)exp=0.00098 *19* α(K)=0.00093 *6*; α(L)=9.5×10^{-5} *6*; α(M)=1.39×10^{-5} *9*; α(N+..)=7.5×10^{-7} *5*
564.53 *2*	162 *9*	564.525	2$^+$	0	1$^+$	M1(+E2)	<0.28	0.000966 *24*	α(K)exp=0.00088 *14* α=0.000966 *24*; α(K)=0.000865 *22*; α(L)=8.80×10^{-5} *23*; α(M)=1.29×10^{-5} *4* α(N+..)=6.96×10^{-7} *17*
571.42 *15*	6.5 *15*	946.866	1$^+$,2$^+$	375.577	3$^+$				
572.28 *2*	84 *5*	946.866	1$^+$,2$^+$	374.571	2$^+$	M1(+E2)	<0.30	0.00094 *3*	α(K)exp=0.00086 *17* α(K)=0.000841 *23*; α(L)=8.55×10^{-5} *24*; α(M)=1.25×10^{-5} *4*; α(N+..)=6.76×10^{-7} *18*
583.80 *2*	267 *14*	583.790	2$^-$	0	1$^+$	E1(+M2)	<0.22	0.000444 *7*	α(K)exp=0.00040 *8* α=0.000444 *7*; α(K)=0.000397 *6*; α(L)=4.01×10^{-5} *6*; α(M)=5.85×10^{-6} *9*; α(N+..)=3.14×10^{-7} *5*
602.85 *2*	37.2 *20*	1117.148	0$^+$,1$^+$,2$^+$	514.298	1$^+$	M1(+E2)	<0.29	0.000834 *20*	α(K)exp=0.00076 *15* α=0.000834 *20*; α(K)=0.000747 *18*; α(L)=7.58×10^{-5} *19*;

$^{68}_{31}Ga_{37}$-4

^{68}Zn(p,nγ) 1993Ti03 (continued)

γ(^{68}Ga) (continued)

E_γ [†]	I_γ [‡]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	δ[#]	α	Comments
									α(M)=1.11×10^{-5} *3* α(N+..)=6.00×10^{-7} *14*
607.42 *3*	3.6 *4*	1103.53	5$^-$	496.094	4$^+$				
608.90 *3*	13.0 *8*	1123.181	1$^+$,2,3$^+$	514.298	1$^+$				
625.92 *3*	11.0 *6*	946.866	1$^+$,2$^+$	320.976	1$^+$				
631.09 *4*	2.5 *3*	806.161	4$^+$	175.017	2$^+$				
645.83 *10*	2.1 *3*	1210.55	2$^+$,3$^+$	564.525	2$^+$				
647.92 *5*	2.2 *3*	1231.70	(3,4)	583.790	2$^-$				
650.32 *4*	5.0 *3*	825.340	1$^+$,2$^+$	175.017	2$^+$				
660.76 *11*	1.7 *2*	1225.17	1$^+$,2,3$^+$	564.525	2$^+$				
663.67 *4*	24.7 *14*	838.720	1$^+$,2$^+$	175.017	2$^+$	M1(+E2)	<1.3	0.000662 *10*	α(K)exp=0.00057 *17* α=0.000662 *10*; α(K)=0.000593 *9*; α(L)=6.01×10^{-5} *9*; α(M)=8.79×10^{-6} *13*; α(N+..)=4.76×10^{-7} *7*
673.29 *7*	3.5 *3*	1228.81	(1,2)	555.471	0$^+$				
675.97 *7*	3.6 *3*	676.045	3$^+$	0	1$^+$				
683.46 *12*	1.2 *6*	1267.21	(1,2)$^+$	583.790	2$^-$				
688.63 *10*	4.3 *4*	1064.116	(1,2,3)	375.577	3$^+$				
702.63 *5*	7.5 *5*	1267.21	(1,2)$^+$	564.525	2$^+$				
712.57 *7*	1.4 *8*	1296.43	(2,3,4)	583.790	2$^-$				
720.17 *13*	0.8 *2*	1216.18	2$^+$,3,4$^+$	496.094	4$^+$				
725.35 *13*	3.5 *3*	1239.85	(0,1,2)	514.298	1$^+$				
726.78 *10*	2.9 *3*	1101.203	(1,2,3)	374.571	2$^+$				
727.15 *12*	1.0 *3*	1223.25	(5)$^+$	496.094	4$^+$				
735.60 *7*	1.2 *5*	1231.70	(3,4)	496.094	4$^+$				
747.52 *13*	4.0 *4*	1123.181	1$^+$,2,3$^+$	375.577	3$^+$				
748.65 *3*	6.8 *4*	1123.181	1$^+$,2,3$^+$	374.571	2$^+$				
752.97 *9*	1.1 *2*	1267.21	(1,2)$^+$	514.298	1$^+$				
772.02 *36*	0.9 *3*	946.866	1$^+$,2$^+$	175.017	2$^+$				
790.84 *13*	0.5 *2*	1287.00	2$^+$,3,4$^+$	496.094	4$^+$				
796.18 *5*	3.7 *3*	1117.148	0$^+$,1$^+$,2$^+$	320.976	1$^+$				
802.13 *10*	4.2 *3*	1123.181	1$^+$,2,3$^+$	320.976	1$^+$				
825.33 *2*	102 *5*	825.340	1$^+$,2$^+$	0	1$^+$	M1(+E2)	<0.46	0.000424 *11*	α(K)exp=0.00039 *8* α=0.000424 *11*; α(K)=0.000380 *10*; α(L)=3.84×10^{-5} *11*; α(M)=5.62×10^{-6} *15* α(N+..)=3.04×10^{-7} *8*
835.00 *4*	11.5 *7*	1210.55	2$^+$,3$^+$	375.577	3$^+$				
838.71 *3*	17.3 *9*	838.720	1$^+$,2$^+$	0	1$^+$				
840.32 *13*	1.6 *8*	1216.18	2$^+$,3,4$^+$	375.577	3$^+$				
841.21 *10*	11.2 *6*	841.185	3$^+$	0	1$^+$				
849.61 *20*	1.2 *8*	1225.17	1$^+$,2,3$^+$	375.577	3$^+$				
850.52 *5*	11.1 *6*	1225.17	1$^+$,2,3$^+$	374.571	2$^+$				
856.18 *20*	0.7 *2*	1231.70	(3,4)	375.577	3$^+$				
889.09 *2*	33.0 *17*	1064.116	(1,2,3)	175.017	2$^+$				

^{68}Zn(p,nγ) 1993Ti03 (continued)

γ(^{68}Ga) (continued)

E_γ †	I_γ ‡	E_i(level)	J_i^π	E_f	J_f^π	E_γ †	I_γ ‡	E_i(level)	J_i^π	E_f	J_f^π
892.59 *6*	3.2 *3*	1267.21	$(1,2)^+$	374.571	2^+	1050.16 *5*	12.6 *7*	1225.17	$1^+,2,3^+$	175.017	2^+
904.20 *10*	1.5 *2*	1225.17	$1^+,2,3^+$	320.976	1^+	1053.71 *6*	3.5 *3*	1228.81	(1,2)	175.017	2^+
907.81 *6*	5.2 *3*	1228.81	(1,2)	320.976	1^+	1064.14 *25*	1.0 *2*	1064.116	(1,2,3)	0	1^+
918.86 *6*	5.2 *3*	1239.85	(0,1,2)	320.976	1^+	1092.23 *6*	2.1 *3*	1267.21	$(1,2)^+$	175.017	2^+
926.17 *2*	26.4 *14*	1101.203	(1,2,3)	175.017	2^+	1101.21 *17*	2.6 *3*	1101.203	(1,2,3)	0	1^+
941.95 *14*	1.0 *2*	1117.148	$0^+,1^+,2^+$	175.017	2^+	1111.98 *5*	5.0 *3*	1287.00	$2^+,3,4^+$	175.017	2^+
946.22 *6*	5.3 *4*	1267.21	$(1,2)^+$	320.976	1^+	1123.12 *3*	23.1 *12*	1123.181	$1^+,2,3^+$	0	1^+
946.85 *10*	1.0 *8*	946.866	$1^+,2^+$	0	1^+	1225.21 *6*	3.8 *3*	1225.17	$1^+,2,3^+$	0	1^+
948.19 *20*	1.2 *2*	1123.181	$1^+,2,3^+$	175.017	2^+	1228.85 *4*	28.1 *15*	1228.81	(1,2)	0	1^+
1035.41 *30*	2.0 *2*	1210.55	$2^+,3^+$	175.017	2^+	1239.86 *4*	19.0 *10*	1239.85	(0,1,2)	0	1^+
1041.35 *13*	1.9 *2*	1216.18	$2^+,3,4^+$	175.017	2^+	1267.22 *9*	1.6 *2*	1267.21	$(1,2)^+$	0	1^+

† Weighted average of (p,nγ) (1993Ti03) and (α,nγ) (1993Ti04) data. 1993Ti04 and 1993Ti03 in their (α,nγ) and (p,nγ) datasets, respectively, use the same set of energies for transitions seen in both reactions.

‡ Relative intensity with I(175γ)=1000, measured at E(p)=5.1 MeV.

From α(K)exp (1993Ti03), unless indicated otherwise.

@ From γ(θ) (1968Bi03).

$^{68}_{31}Ga_{37}$-6

^{68}Zn(p,nγ) 1993Ti03

Level Scheme

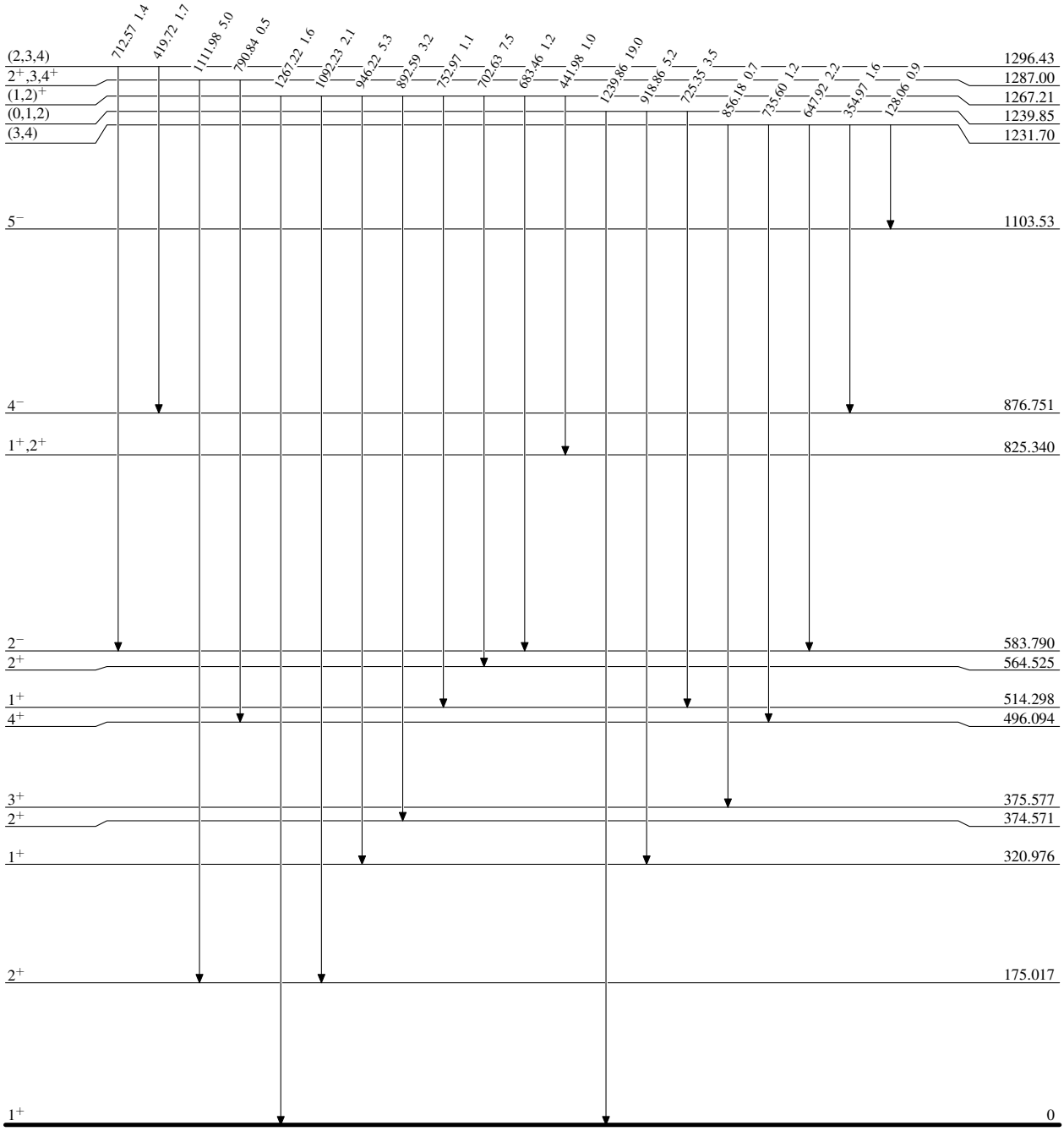
Intensities: Relative I_γ

Legend

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

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

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

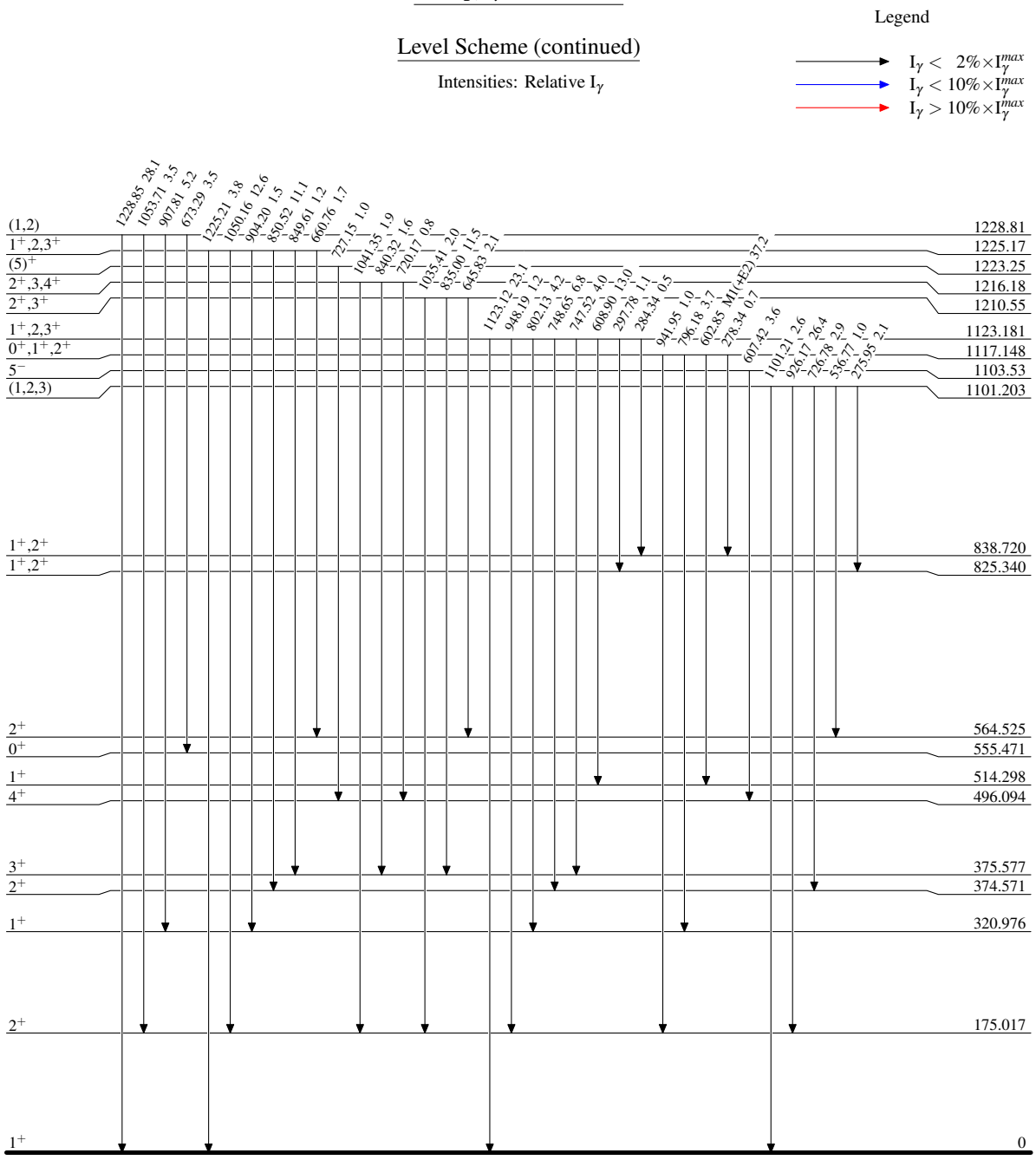


$^{68}_{31}Ga_{37}$

^{68}Zn(p,nγ) 1993Ti03

Level Scheme (continued)

Intensities: Relative I_γ

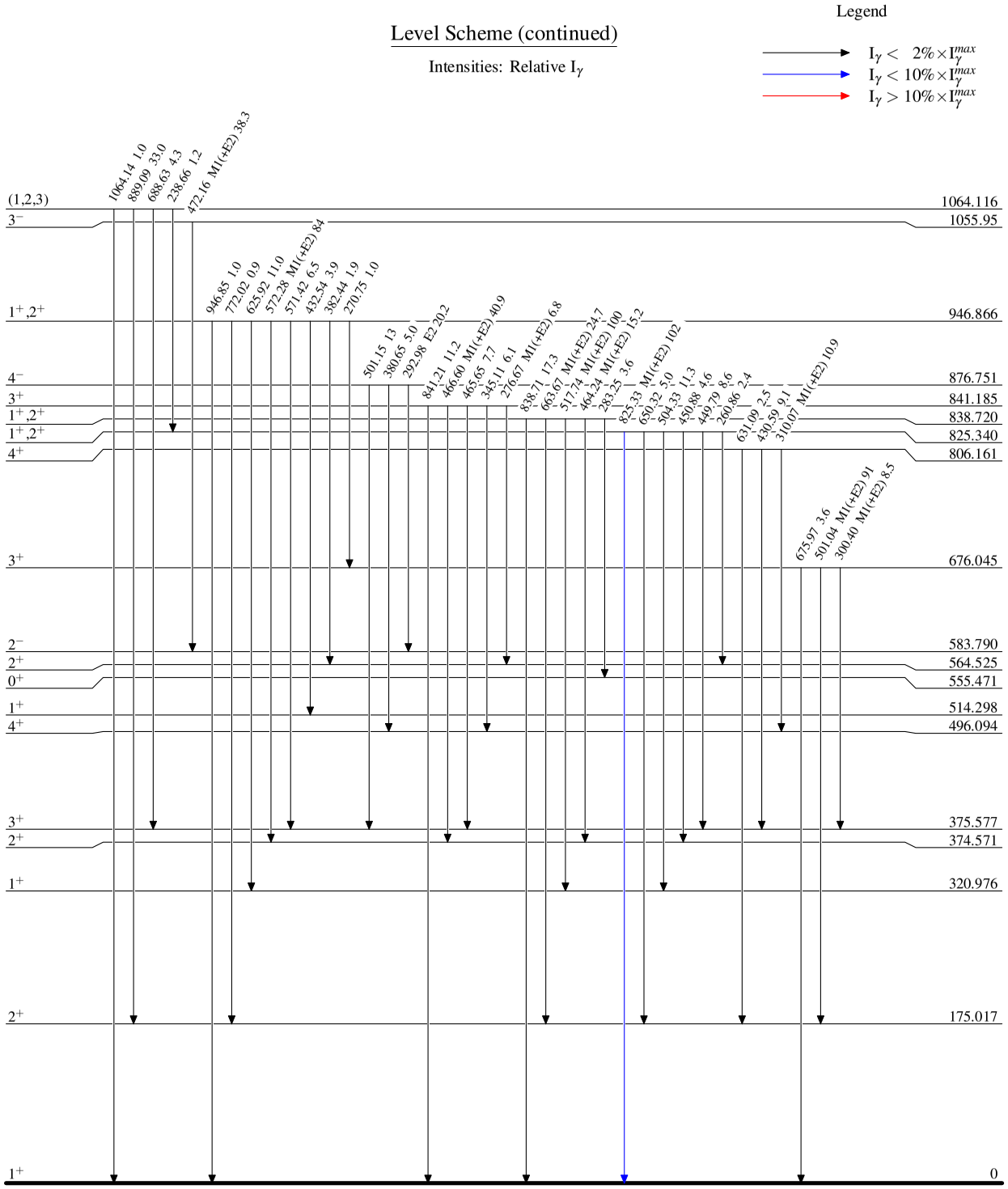


$^{68}_{31}Ga_{37}$

^{68}Zn(p,nγ) 1993Ti03

Level Scheme (continued)

Intensities: Relative I_γ

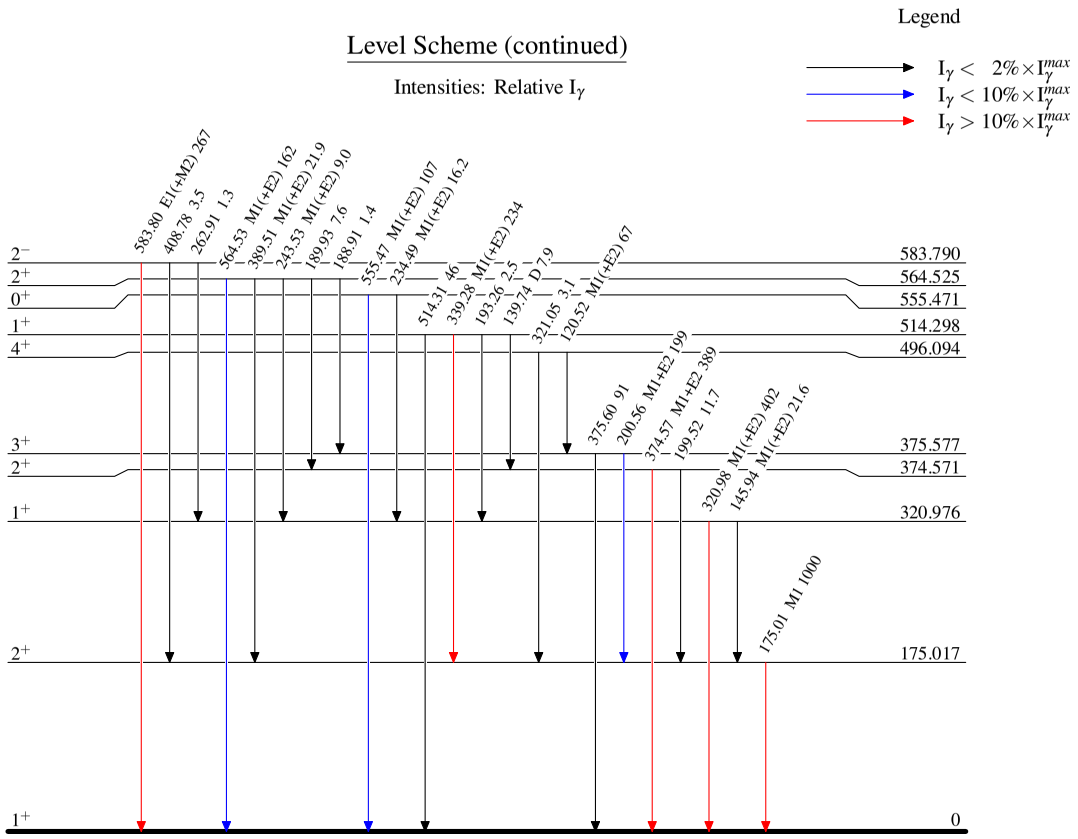


$^{68}_{31}Ga_{37}$

^{68}Zn(p,nγ) 1993Ti03

Level Scheme (continued)

Intensities: Relative I_γ



$^{68}_{31}Ga_{37}$