^{113}In(n,γ) E=th 2002SaZO

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 113, 515 (2012)	1-Jan-2012

2002SaZO: E=th. Measured Eγ, Iγ. ce using bent-crystal spectrometer for γ rays and a magnetic spectrometer for conversion electrons in the 30-1300 keV range.

The level scheme was constructed on the basis of the Ritz combination principle and on the $\gamma\gamma$ coin data from 1975Ra07 and 1975Hu09. The transitions with energy uncertainties larger than 0.05 keV were not included in the level scheme, unless placement supported by $\gamma\gamma$ coincidences.

1975Ra07: Measured Eγ, Iγ, γ-γ coin; Enriched target, Ge(Li) detectors.

The data of 2002SaZO supersede 1975Ra07. The high energy resolution of the bent-crystal spectrometer has allowed to solve discrepancies quoted in the last evaluation.

^{114}In Levels

E(level)†	J^π	Comments
0	1^+	Configuration=$\pi g_{9/2}\otimes\nu g_{7/2}$.
190.2682 *8*	5^+	Configuration=$\pi g_{9/2}\otimes\nu s_{1/2}$.
221.067 *3*	4^+	Configuration=$\pi g_{9/2}\otimes\nu s_{1/2}+\pi g_{9/2}\otimes\nu d_{3/2}$.
287.739 *3*	2^+	Configuration=$\pi g_{9/2}\otimes\nu g_{7/2}$.
497.161 *3*	5^+	Configuration=$\pi g_{9/2}\otimes\nu d_{3/2}$.
501.938 *3*	8^-	Configuration=$\pi g_{9/2}\otimes\nu h_{11/2}$.
536.286 *3*	7^-	Configuration=$\pi g_{9/2}\otimes\nu h_{11/2}$.
574.408 *3*	6^-	Configuration=$\pi g_{9/2}\otimes\nu h_{11/2}$.
600.355 *9*	3^-	
628.032 *3*	3^+	Configuration=$\pi g_{9/2}\otimes\nu g_{7/2}$.
640.4‡ *1*	9^-	Configuration=$\pi g_{9/2}\otimes\nu h_{11/2}$.
641.738 *3*	7^+	Configuration=$\pi g_{9/2}\otimes\nu d_{5/2}$.
687.518 *4*	8^+	Configuration=$\pi g_{9/2}\otimes\nu g_{7/2}$.
692.936 *4*	2^-	
696.368 *3*	5^-	Configuration=$\pi g_{9/2}\otimes\nu h_{11/2}$.
725.126 *4*	3^+	Configuration=$\pi g_{9/2}\otimes\nu d_{3/2}$.
728.5411 *25*	4^+	Configuration=$\pi g_{9/2}\otimes\nu d_{3/2}+\pi g_{9/2}\otimes\nu s_{1/2}$.
775.334 *3*	4^+	Configuration=$\pi g_{9/2}\otimes\nu g_{7/2}+\pi g_{9/2}\otimes\nu d_{3/2}$.
824.994 *4*	2^+	Configuration=$\pi g_{9/2}\otimes\nu d_{5/2}$.
835.651 *4*	4^-	Configuration=$\pi g_{9/2}\otimes\nu h_{11/2}$.
906.118 *6*	2^-	
909.505 *4*	6^+	Configuration=$\pi g_{9/2}\otimes\nu d_{3/2}$.
970.581 *5*	$4^+,5^+,6^+$	
1003.130 *5*	5^+	Configuration=$\pi g_{9/2}\otimes\nu d_{3/2}$.
1006.405 *10*	4^-	
1018.670 *4*	$4^-,5^-$	
1019.742 *4*	7^+	Configuration=$\pi g_{9/2}\otimes\nu g_{7/2}+\pi g_{9/2}\otimes\nu d_{5/2}$.
1032.039 *4*	3^-	Configuration=$\pi g_{9/2}\otimes\nu h_{11/2}$.
1037.178 *5*	$3^+,4^+,5^+$	
1044.894 *5*	6^+	Configuration=$\pi g_{9/2}\otimes\nu d_{5/2}$.
1047.208 *4*	3^+	
1059.49 *5*	$1^+,2^+$	
1062.534 *3*	3^+	
1074.04 *3*	$1^+,2^+$	
1111.795 *7*	3	
1155.353 *4*	$3^+,4^+$	
1164.278 *10*	$6^+,7^+,8^+$	
1168.822 *7*	$2^+,3^+,4^+$	
1178.67 *5*	$1^-,2^-,3^-$	
1198.937 *4*	4^-	

Continued on next page (footnotes at end of table)

^{113}In(n,γ) E=th 2002SaZO (continued)

^{114}In Levels (continued)

E(level)[†]	J^π	Comments
1201.506 *8*	3^-	
1205.338 *6*	3^+	
1216.8[‡] *2*	10^-	Configuration=$\pi g_{9/2}\otimes\nu h_{11/2}$.
1270.986 *8*	3^-	
1272.268 *5*	4^+	
1303.547 *5*	3^-	
1311.762 *4*	$3^+,4^+,5^+$	
1319.569 *9*	$2^+,3^+,4^+$	
1322.451 *10*	$5^+,6^+,7^+$	
1328.950 *6*	6^+	
1349.004 *4*	$3^-,4^-,5^-$	
1394.234 *7*	$5^+,6^+$	
1406.487 *9*	$2^-,3^-,4^-$	
1424.447 *7*	4^+	
1431.608 *9*	4^-	
1484.771 *13*	$3^+,4^+,5^+$	
1575.532 *7*	$3^+,4^+$	
1615.914 *19*	$3^+,4^+,5^+$	
1677.642 *21*	3,4	

† From least-squares fit to Eγ's , multiply placed γ's were not included in this procedure.
‡ From 1976Ei04: Level not populated in (n,γ).

γ(^{114}In)

E_γ	I_γ[†&]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[‡]	α[a]	Comments
^{x}14.34 *5*	3.3 *4*							
30.807 *4*	19.3 *10*	221.067	4^+	190.2682	5^+	M1	15.3	E_γ,I_γ: from ce data; Iγ for M1. α(L1)exp/α(L2)exp=11.0 *17*, α(L1)exp/α(L3)exp>20, α(L2)exp/α(M1)exp=0.58 *10*, α(M1)exp/α(M3)exp>5.
34.350 *2*	20 *3*	536.286	7^-	501.938	8^-	M1	11.18	E_γ,I_γ: from ce data; Iγ for M1. α(L1)exp/α(L2)exp=10.0 *19*, α(L1)exp/α(L3)exp>23, α(L2)exp/α(M1)exp=0.33 *6*, α(M1)exp/α(M2)exp>9.
38.122 *2*	30.5 *20*	574.408	6^-	536.286	7^-	M1		E_γ,I_γ: from ce data; Iγ for M1. α(L1)exp/α(L2)exp=11.8 *23*, α(L1)exp/α(L3)exp>37, α(L2)exp/α(M1)exp=0.55 *11*.
45.78 *3*	0.6 *3*	687.518	8^+	641.738	7^+	M1	4.84	α(K)exp<7 E_γ,I_γ: from 1975Ra07.
^{x}48.202 *6*	1.6 *4*					M1		α(K)exp=5.0 *18* E_γ,I_γ: from ce data, Iγ for mult=M1.
65.285 *5*	1.4 *4*	1394.234	$5^+,6^+$	1328.950	6^+	M1	1.72	α(K)exp=1.53 *4*
67.26 *8*	1.0 *5*	641.738	7^+	574.408	6^-	E1[@]	0.53	E_γ,I_γ: from 1975Ra07.
^{x}86.769 *4*	0.36 *8*							
92.828 *3*	4.8 *10*	1155.353	$3^+,4^+$	1062.534	3^+	M1		α(K)exp=0.67 *14*; α(L1)exp=0.074 *25*; α(L2)exp<0.03
93.626 *3*	0.91 *19*	1003.130	5^+	909.505	6^+	M1		α(K)exp=0.84 *25*
^{x}98.474 *3*	0.59 *13*					M1		α(K)exp=0.42 *13*

Continued on next page (footnotes at end of table)

^{113}In(n,γ) E=th 2002SaZO (continued)

γ(^{114}In) (continued)

E_γ	I_γ[†&]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[‡]	α[a]	Comments
[x]101.894 *4*	0.35 *9*							
105.458 *3*	3.9 *8*	641.738	7^+	536.286	7^-	E1	0.149	α(K)exp=0.12 *4*
[x]110.735 *6*	0.43 *11*							
121.962 *2*	150 *30*	696.368	5^-	574.408	6^-	M1		α(K)exp=0.21 *5*; α(L1)exp=0.027 *6*; α(L2)exp=0.0019 *4*; α(L3)exp<0.002; α(M)exp=0.0040 *10*
139.278 *2*	72 *14*	835.651	4^-	696.368	5^-	M1		α(K)exp=0.15 *3*; α(L1)exp=0.019 *4*; α(L2)exp<0.002; α(M1)exp=0.0040 *10*
139.795 *3*	0.48 *12*	641.738	7^+	501.938	8^-	E1[@]		
[x]142.180 *3*	0.49 *12*							
147.3025 *15*	32 *6*	775.334	4^+	628.032	3^+	M1		α(K)exp=0.127 *24*; α(L1)exp=0.019 *4*; α(L2)exp<0.006; α(M)exp=0.0040 *10*
150.0667 *16*	5.6 *12*	1349.004	$3^-,4^-,5^-$	1198.937	4^-	M1		α(K)exp=0.15 *3*
151.085 *3*	1.02 *22*	1575.532	$3^+,4^+$	1424.447	4^+	M1,E2	0.26	α(K)exp=0.19 *6*
153.463 *8*	0.59 *15*	1424.447	4^+	1270.986	3^-			
156.4085 *9*	7.6 *6*	1311.762	$3^+,4^+,5^+$	1155.353	$3^+,4^+$	M1		α(K)exp=0.097 *10*
[x]158.0862 *18*	2.0 *4*					M1		α(K)exp=0.12 *3*
158.167 *24*	0.18 *9*	1322.451	$5^+,6^+,7^+$	1164.278	$6^+,7^+,8^+$			
166.890 *14*	0.35 *11*	1198.937	4^-	1032.039	3^-			
[x]170.5000 *23*	0.81 *14*							
[x]176.646 *4*	0.56 *8*							
185.5784 *18*	2.08 *18*	687.518	8^+	501.938	8^-	E1[@]		
[x]187.40 *18*	4.9 *8*							
190.2684 *8*	8.7 *6*	190.2682	5^+	0	1^+	E4	5.04	α(K)exp=2.7 *3*; α(L1)exp=0.28 *10*; α(L2)exp=1.3 *3*; α(L3)exp=0.98 *23*; α(M)exp=0.66 *6* α(N)exp=0.11 *1*
192.525 *13*	0.38 *8*	1198.937	4^-	1006.405	4^-			
[x]192.929 *3*	0.64 *11*							
196.3870 *7*	14.5 *10*	1032.039	3^-	835.651	4^-	M1		α(K)exp=0.061 *5*; α(L1)exp=0.0076 *12*
199.207 *6*	0.20 *6*	696.368	5^-	497.161	5^+	E1[@]		
[x]201.567 *3*	0.78 *18*							
[x]202.773 *6*	0.88 *22*							
205.675 *4*	0.94 *13*	1111.795	3	906.118	2^-			
213.184 *15*	0.75 *19*	906.118	2^-	692.936	2^-			
222.2143 *16*	3.04 *24*	1047.208	3^+	824.994	2^+	M1		α(K)exp=0.049 *10*
231.372 *5*	1.91 *21*	728.5411	4^+	497.161	5^+	M1		α(K)exp=0.042 *12*
237.546 *6*	0.74 *11*	1062.534	3^+	824.994	2^+			
243.330 *3*	1.86 *20*	1018.670	$4^-,5^-$	775.334	4^+			
[x]244.192 *4*	0.92 *12*							
257.018 *24*	0.85 *24*	1319.569	$2^+,3^+,4^+$	1062.534	3^+			
261.844 *3*	8.15 *17*	1037.178	$3^+,4^+,5^+$	775.334	4^+	M1		α(K)exp=0.032 *3*
[x]267.209 *5*	1.24 *13*							
[x]268.615 *7*	1.05 *11*							
269.129 *16*	0.65 *10*	1272.268	4^+	1003.130	5^+			
[x]273.404 *15*	3.4 *5*					M1,E2		α(K)exp=0.033 *10*
276.092 *5*	41.3 *25*	497.161	5^+	221.067	4^+	M1		α(K)exp=0.0278 *24*; α(L1)exp=0.0027 *6* Additional information 1.

Continued on next page (footnotes at end of table)

^{113}In(n,γ) E=th 2002SaZO (continued)

γ(^{114}In) (continued)

E_γ	I_γ [†&]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [‡]	α [a]	Comments
277.82 *3*	0.9 *3*	1006.405	4^-	728.5411	4^+			
278.175 *8*	1.18 *13*	775.334	4^+	497.161	5^+	M1 [@]		
287.734 *5*	198 *12*	287.739	2^+	0	1^+	M1		α(K)exp=0.0218 *15*; α(L1)exp=0.00051 *11*
290.136 *8*	0.88 *22*	1018.670	$4^-,5^-$	728.5411	4^+			
^{x}296.407 *12*	1.34 *17*							
306.879 *6*	68 *4*	497.161	5^+	190.2682	5^+	M1		α(K)exp=0.0196 *22*; α(L1)exp=0.0024 *5*
311.665 *6*	240 *1*	501.938	8^-	190.2682	5^+	E3	0.112	α(K)exp=0.076 *3*; α(L1)exp=0.0090 *3*; α(L2)exp=0.0055 *3*; α(L3)exp=0.0043 *4* α(M)exp=0.0050 *9*; α(N)exp=0.00096 *13*
312.617 *9*	13.7 *11*	600.355	3^-	287.739	2^+	E1		α(K)exp=0.0065 *8*
^{x}313.516 *9*	0.65 *9*							
^{x}314.2039 *22*	5.2 *5*					M1,E2		α(K)exp=0.020 *5*
^{x}317.671 *3*	1.8 *3*							
^{x}320.660 *3*	3.00 *21*							
^{x}321.363 *5*	1.37 *13*							
322.306 *4*	13.3 *13*	1018.670	$4^-,5^-$	696.368	5^-	M1,E2		α(K)exp=0.018 *3*
325.824 *7*	0.96 *13*	1328.950	6^+	1003.130	5^+			
333.9934 *24*	2.32 *23*	1062.534	3^+	728.5411	4^+	M1,E2		α(K)exp=0.023 *6*
336.494 *20*	3.3 *3*	1111.795	3	775.334	4^+			
339.08 *3*	1.5 *3*	1032.039	3^-	692.936	2^-	M1 [@]		
340.290 *3*	105 *10*	628.032	3^+	287.739	2^+	M1		α(K)exp=0.0151 *15*; α(L1)exp=0.0020 *4*
^{x}344.158 *8*	1.90 *22*					M1,E2 [#]		
351.870 *9*	2.26 *18*	1322.451	$5^+,6^+,7^+$	970.581	$4^+,5^+,6^+$			
^{x}354.340 *8*	0.96 *13*							
357.372 *4*	3.7 *4*	1044.894	6^+	687.518	8^+			
^{x}360.086 *6*	1.24 *14*							
363.2808 *25*	3.8 *4*	1198.937	4^-	835.651	4^-	M1,E2		α(K)exp=0.022 *6*
365.854 *7*	4.6 *6*	1201.506	3^-	835.651	4^-	M1 [#]		
370.189 *8*	0.96 *24*	1575.532	$3^+,4^+$	1205.338	3^+			
374.447 *8*	2.17 *18*	1406.487	$2^-,3^-,4^-$	1032.039	3^-	M1,E2 [#]		
375.555 *11*	1.40 *18*	1394.234	$5^+,6^+$	1018.670	$4^-,5^-$			
378.0039 *20*	11.5 *9*	1019.742	7^+	641.738	7^+	M1,E2		α(K)exp=0.0088 *13*
^{x}378.578 *8*	1.02 *16*							
380.031 *16*	0.67 *12*	1155.353	$3^+,4^+$	775.334	4^+			
384.08 *4*	4.8 *15*	574.408	6^-	190.2682	5^+	E1		α(K)exp<0.008
^{x}390.89 *4*	1.2 *4*							
391.05 *5*	1.3 *4*	1394.234	$5^+,6^+$	1003.130	5^+			
^{x}391.650 *4*	2.4 *3*					M1,E2		α(K)exp=0.021 *6*
^{x}395.567 *22*	0.51 *10*							
397.427 *9*	1.55 *18*	1303.547	3^-	906.118	2^-			
399.569 *8*	1.64 *18*	1431.608	4^-	1032.039	3^-	M1,E2 [#]		
^{x}400.496 *16*	1.40 *21*							
^{x}400.757 *14*	1.65 *21*							
^{x}402.92 *2*	0.63 *13*							
403.181 *10*	1.27 *24*	1044.894	6^+	641.738	7^+			
405.20 *5*	0.86 *14*	692.936	2^-	287.739	2^+	E1 [@]		
406.050 *11*	1.56 *18*	1006.405	4^-	600.355	3^-	M1,E2 [#]		
^{x}409.354 *23*	1.33 *15*							

Continued on next page (footnotes at end of table)

^{113}In(n,γ) E=th 2002SaZO (continued)

$\gamma(^{114}$In) (continued)

E_γ	I_γ[†&]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[‡]	Comments
412.3420 *24*	10.7 *8*	909.505	6^+	497.161	5^+	M1,E2	α(K)exp=0.0071 *19*
^{x}413.200 *7*	1.64 *14*						
423.59[b] *3*	0.54[b] *14*	1198.937	4^-	775.334	4^+		
423.59[b] *3*	0.54[b] *14*	1394.234	$5^+,6^+$	970.581	$4^+,5^+,6^+$		I_γ: total Iγ=1.08. Additional information 2.
^{x}426.904 *10*	1.53 *22*						
^{x}429.68 *3*	1.33 *17*						
435.332 *9*	6.8 *5*	1270.986	3^-	835.651	4^-	M1,E2	α(K)exp=0.00963 *20*
436.577 *17*	3.3 *3*	1272.268	4^+	835.651	4^-		
437.384 *4*	8.2 *7*	725.126	3^+	287.739	2^+	M1,E2	α(K)exp=0.0095 *20*
^{x}441.48 *5*	0.66 *14*						
^{x}444.463 *22*	1.20 *14*						
^{x}444.720 *17*	0.79 *12*						
451.471 *3*	21.0 *15*	641.738	7^+	190.2682	5^+	E2	α(K)exp=0.0080 *9*; α(L)exp=0.0014 *5* Mult.: M1 is possible from ce data but excluded from ΔJ^π=2.
^{x}457.431 *13*	1.09 *14*						
^{x}461.345 *12*	0.76 *10*						
467.894 *4*	4.0 *7*	1303.547	3^-	835.651	4^-	M1,E2	α(K)exp=0.008 *3*
^{x}469.849 *9*	1.26 *25*						
473.420 *3*	16 *4*	970.581	$4^+,5^+,6^+$	497.161	5^+	M1,E2	α(K)exp=0.0070 *20*
^{x}473.829 *4*	4.6 *9*					M1,E2	α(K)exp=0.009 *3*
475.23 *3*	0.64 *20*	696.368	5^-	221.067	4^+	E1[@]	
476.794 *5*	2.99 *22*	1205.338	3^+	728.5411	4^+		
487.558 *18*	2.8 *4*	775.334	4^+	287.739	2^+	E2[@]	
496.99 *4*	0.64 *13*	1272.268	4^+	775.334	4^+		
502.5671 *24*	15 *3*	1198.937	4^-	696.368	5^-	M1,E2	α(K)exp=0.0069 *20*
504.060 *4*	31 *4*	725.126	3^+	221.067	4^+	M1,E2	α(K)exp=0.0055 *9*
505.995[b] *5*	6.3[b] *14*	696.368	5^-	190.2682	5^+	E1[@]	E_γ: poor fit; level-energy difference=506.099 *3*.
505.995[b] *5*	6.3[b] *14*	1003.130	5^+	497.161	5^+	M1,E2	α(K)exp=0.009 *3* I_γ: total Iγ=12.6.
507.482 *4*	12.8 *22*	728.5411	4^+	221.067	4^+	M1,E2	α(K)exp=0.0074 *15*
508.617[b] *11*	4.3[b] *5*	1044.894	6^+	536.286	7^-		
508.617[b] *11*	4.3[b] *5*	1201.506	3^-	692.936	2^-		E_γ: level-energy difference=508.569 *4*. I_γ: total Iγ=8.6.
522.538 *10*	1.55 *20*	1164.278	$6^+,7^+,8^+$	641.738	7^+	M1,E2[#]	
527.325 *6*	5.2 *7*	1155.353	$3^+,4^+$	628.032	3^+	M1,E2	α(K)exp=0.0083 *19*
528.24 *4*	0.63 *13*	1303.547	3^-	775.334	4^+		
536.473 *21*	1.18 *13*	1311.762	$3^+,4^+,5^+$	775.334	4^+		
537.253 *4*	5.8 *8*	824.994	2^+	287.739	2^+	M1,E2	α(K)exp=0.0076 *20*
538.277 *4*	28 *5*	728.5411	4^+	190.2682	5^+	M1,E2	α(K)exp=0.0060 *13*
540.789 *6*	1.5 *4*	1168.822	$2^+,3^+,4^+$	628.032	3^+	M1,E2[#]	
543.730 *5*	2.8 *6*	1272.268	4^+	728.5411	4^+		
547.140 *5*	7.1 *13*	1272.268	4^+	725.126	3^+	M1,E2	α(K)exp=0.0065 *20*
^{x}565.501 *15*	0.76 *13*						
570.902 *6*	8.0 *11*	1198.937	4^-	628.032	3^+	E1	α(K)exp<0.0025
573.675 *12*	1.67 *21*	1349.004	$3^-,4^-,5^-$	775.334	4^+		
578.09 *3*	1.5 *3*	1270.986	3^-	692.936	2^-		
^{x}584.39 *5*	0.52 *12*						
585.12 *5*	0.69 *15*	775.334	4^+	190.2682	5^+		
^{x}588.979 *12*	1.39 *18*						
^{x}590.74 *3*	1.25 *17*						
^{x}602.082 *18*	4.4 *8*						

Continued on next page (footnotes at end of table)

^{113}In(n,γ) E=th 2002SaZO (continued)

γ(^{114}In) (continued)

$E_γ$	$I_γ$ [†&]	E_i(level)	$J^π_i$	E_f	$J^π_f$	Mult. [‡]	Comments
[x]616.747 *24*	1.64 *23*					M1,E2 [#]	
618.380 *10*	2.9 *5*	906.118	2^-	287.739	2^+		
[x]625.96 *4*	1.21 *19*						
[x]628.96 *3*	1.4 *3*						
[x]629.06 *3*	1.46 *20*						
632.587 *16*	3.7 *5*	1328.950	6^+	696.368	5^-		
[x]635.37 *11*	1.7 *3*						
[x]639.794 *25*	0.92 *18*						
644.25 *4*	1.06 *23*	1272.268	4^+	628.032	3^+	M1,E2 [#]	
[x]645.52 *3*	1.29 *25*					M1,E2 [#]	
649.118 *12*	2.9 *5*	1484.771	$3^+,4^+,5^+$	835.651	4^-		
[x]652.152 *15*	2.9 *4*						
[x]652.47 *4*	1.8 *4*						
[x]665.74 *2*	1.9 *4*						
[x]670.50 *2*	1.38 *18*						
[x]675.577 *12*	1.97 *23*						
[x]677.23 *6*	0.97 *13*						
[x]679.423 *14*	3.3 *5*						
691.538 *9*	6.2 *7*	1319.569	$2^+,3^+,4^+$	628.032	3^+	M1,E2	α(K)exp=0.0037 *10*
692.934 *4*	32 *4*	692.936	2^-	0	1^+	E1	α(K)exp<0.0013
[x]694.06 *3*	1.79 *25*						
[x]710.81 *4*	7.7 *9*						
[x]712.60 *4*	5.9 *7*						
719.29 *14*	8.7 *10*	909.505	6^+	190.2682	5^+		$E_γ$: level-energy difference=719.234 *4*.
728.078 *14*	4.0 *5*	1424.447	4^+	696.368	5^-		
[x]732.69 *5*	0.90 *16*						
[x]737.77 *5*	1.32 *23*						
[x]752.78 *5*	0.41 *9*						
[x]754.41 *5*	0.67 *11*						
754.41 *5*	0.67 *11*	1328.950	6^+	574.408	6^-		
[x]760.03 *10*	0.84 *17*						
[x]761.08 *9*	0.91 *17*						
771.70 *5*	3.3 *6*	1059.49	$1^+,2^+$	287.739	2^+		
774.796 *4*	17.4 *20*	1062.534	3^+	287.739	2^+	M1,E2 [#]	
[x]777.89 *4*	1.44 *21*						
780.260 *18*	3.1 *4*	1615.914	$3^+,4^+,5^+$	835.651	4^-		
[x]782.54 *4*	1.78 *24*						
786.29 *3*	1.8 *3*	1074.04	$1^+,2^+$	287.739	2^+		
[x]787.95 *7*	1.05 *19*						
792.668 *12*	4.6 *6*	1328.950	6^+	536.286	7^-		
[x]794.76 *5*	1.06 *18*						
[x]797.638 *11*	5.4 *6*						
812.825 *16*	3.6 *5*	1003.130	5^+	190.2682	5^+	M1,E2 [#]	
816.136 [b] *10*	4.4 [b] *7*	1006.405	4^-	190.2682	5^+		
816.136 [b] *10*	4.4 [b] *7*	1037.178	$3^+,4^+,5^+$	221.067	4^+		$I_γ$: total Iγ=8.8.
825.000 *6*	11.5 *14*	824.994	2^+	0	1^+	M1,E2	α(K)exp=0.0025 *7*
826.142 *19*	5.3 *7*	1047.208	3^+	221.067	4^+		
[x]827.04 *8*	1.6 *4*						
[x]830.86 *4*	2.9 *5*						
[x]832.09 *6*	1.8 *3*						
[x]839.46 *9*	2.0 *5*						
841.460 *16*	7.8 *13*	1062.534	3^+	221.067	4^+		
841.973 *23*	3.7 *6*	1677.642	3,4	835.651	4^-		
[x]850.27 *10*	1.3 *3*						
[x]857.009 *24*	3.7 *7*						

Continued on next page (footnotes at end of table)

^{113}In(n,γ) E=th 2002SaZO (continued)

γ(^{114}In) (continued)

E_γ	I_γ [†&]	E_i(level)	J^π_i	E_f	J^π_f	Mult. [‡]
[x]865.24 *5*	1.65 *23*					
[x]872.20 *7*	1.16 *21*					
[x]873.776 *10*	6.2 *7*					M1,E2[#]
890.93 *5*	2.0 *3*	1178.67	$1^-,2^-,3^-$	287.739	2^+	E1[#]
[x]896.81 *11*	1.24 *23*					
906.102 *10*	8.5 *11*	906.118	2^-	0	1^+	E1[#]
917.66 *5*	11.2 *17*	1205.338	3^+	287.739	2^+	
934.44 *3*	2.76 *25*	1431.608	4^-	497.161	5^+	
[x]940.432 *20*	6.8 *21*					M1[#]
[x]944.68 *8*	5.4 *8*					
[x]947.72 *10*	1.9 *3*					
952.55 *4*	4.0 *7*	1677.642	3,4	725.126	3^+	
[x]983.17 *10*	17 *3*					
[x]986.12 *15*	2.7 *5*					
[x]987.3 *2*	2.3 *5*					
[x]992.42 *7*	2.6 *7*					
[x]994.88 *8*	3.9 *8*					
[x]1013.43 *6*	11.0 *15*					
[x]1017.63 *20*	3.2 *7*					
[x]1026.00 *12*	5.3 *7*					
[x]1031.03 *21*	1.6 *3*					
[x]1033.97 *15*	3.4 *5*					
[x]1047.88 *10*	3.5 *5*					
1059.64 *9*	5.6 *7*	1059.49	$1^+,2^+$	0	1^+	
[x]1070.82 *15*	2.4 *4*					
1074.12 *10*	2.9 *5*	1074.04	$1^+,2^+$	0	1^+	
[x]1083.25 *20*	2.0 *4*					
[x]1103.05 *4*	7.5 *13*					
[x]1119.79 *6*	5.4 *10*					
[x]1125.30 *7*	2.9 *4*					
[x]1151.83 *7*	7.1 *11*					
[x]1226.09 *24*	8.1 *17*					
[x]1240.20 *15*	3.7 *6*					
[x]1254.58 *24*	6.3 *14*					
[x]1268.43 *14*	11.7 *14*					
[x]1333.33 *24*	5.5 *9*					

† For doublets, equal intensities are assigned to the two components (by 2002SaZO or by the Evaluator).
‡ From α(K)exp in 2002SaZO.
# From 1986Ti01.
@ Deduced from comparison of experimental $T_{1/2}$ (1975Ra07,1975Hu09) and calculated $T_{1/2}$(W.u.); L-transfers used to determine change in parity.
& For intensity per 100 neutron captures, multiply by 0.1.
a Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.
b Multiply placed with intensity suitably divided.
x γ ray not placed in level scheme.

^{113}In(n,γ) E=th 2002SaZO

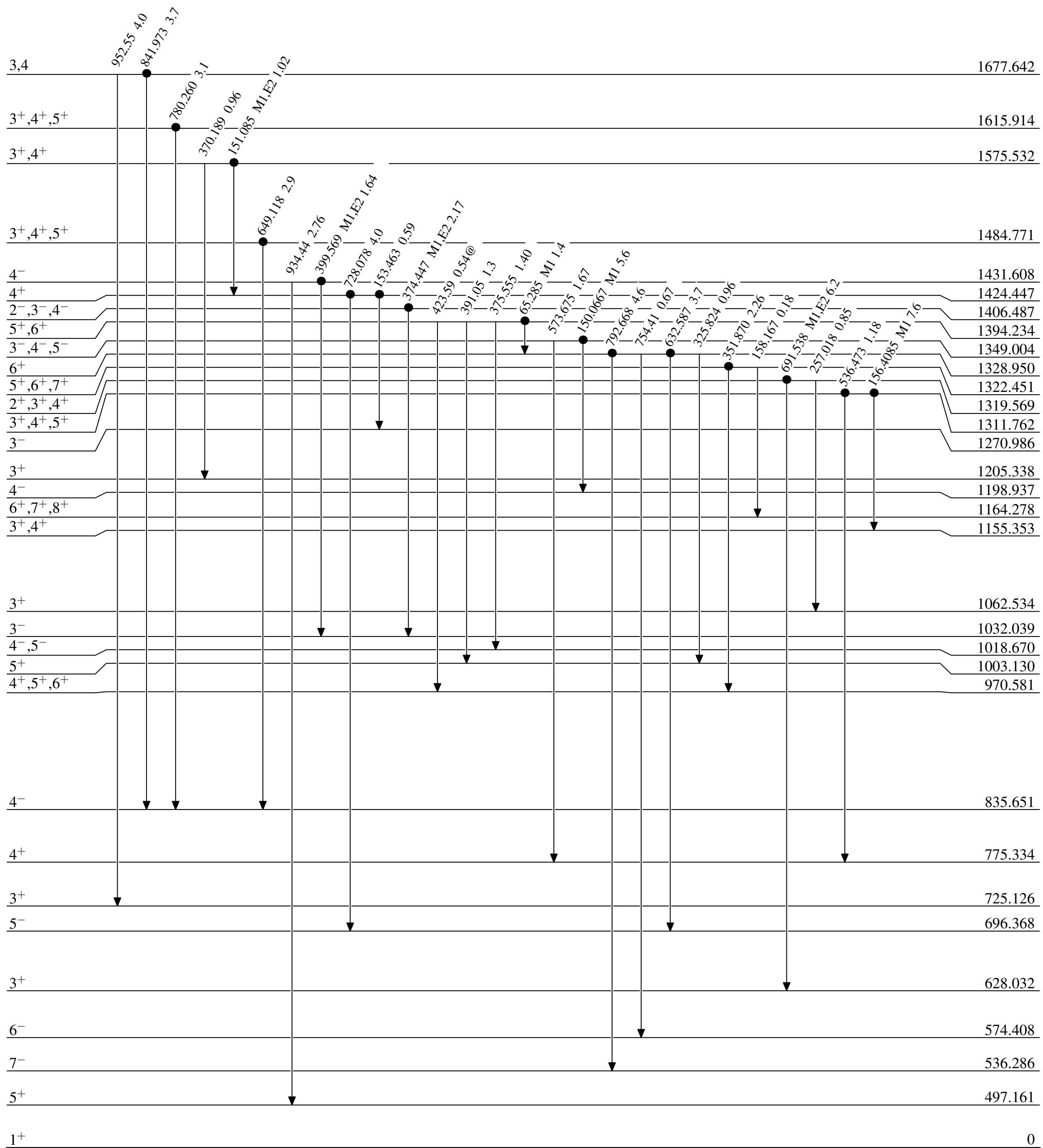
Level Scheme

Intensities: Relative I_γ

@ Multiply placed: intensity suitably divided

Legend

- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$
- ● Coincidence



$^{114}_{49}\mathrm{In}_{65}$

^{113}In(n,γ) E=th 2002SaZO

Level Scheme (continued)

Intensities: Relative I_γ

@ Multiply placed: intensity suitably divided

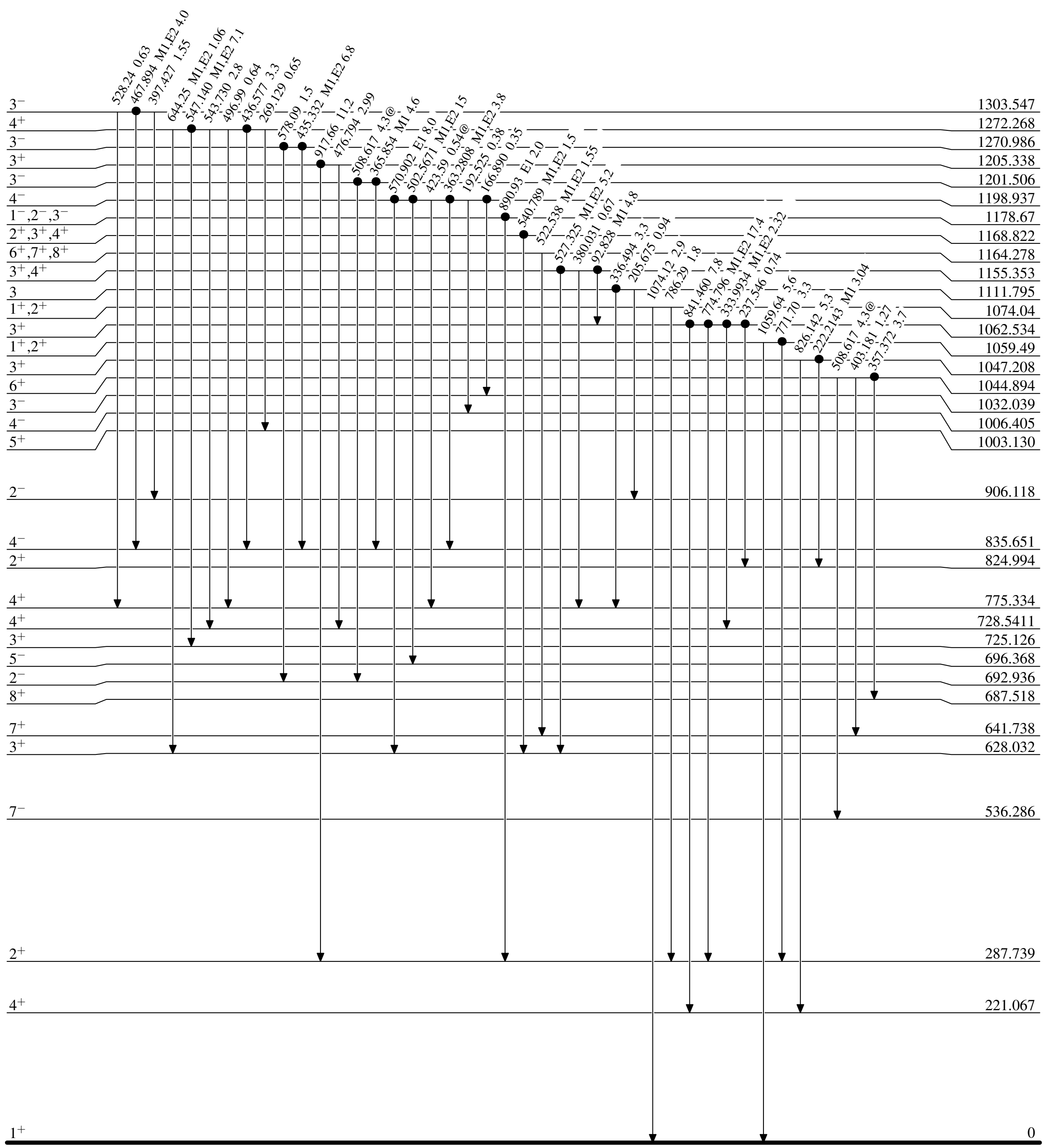
Legend

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

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

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

Coincidence



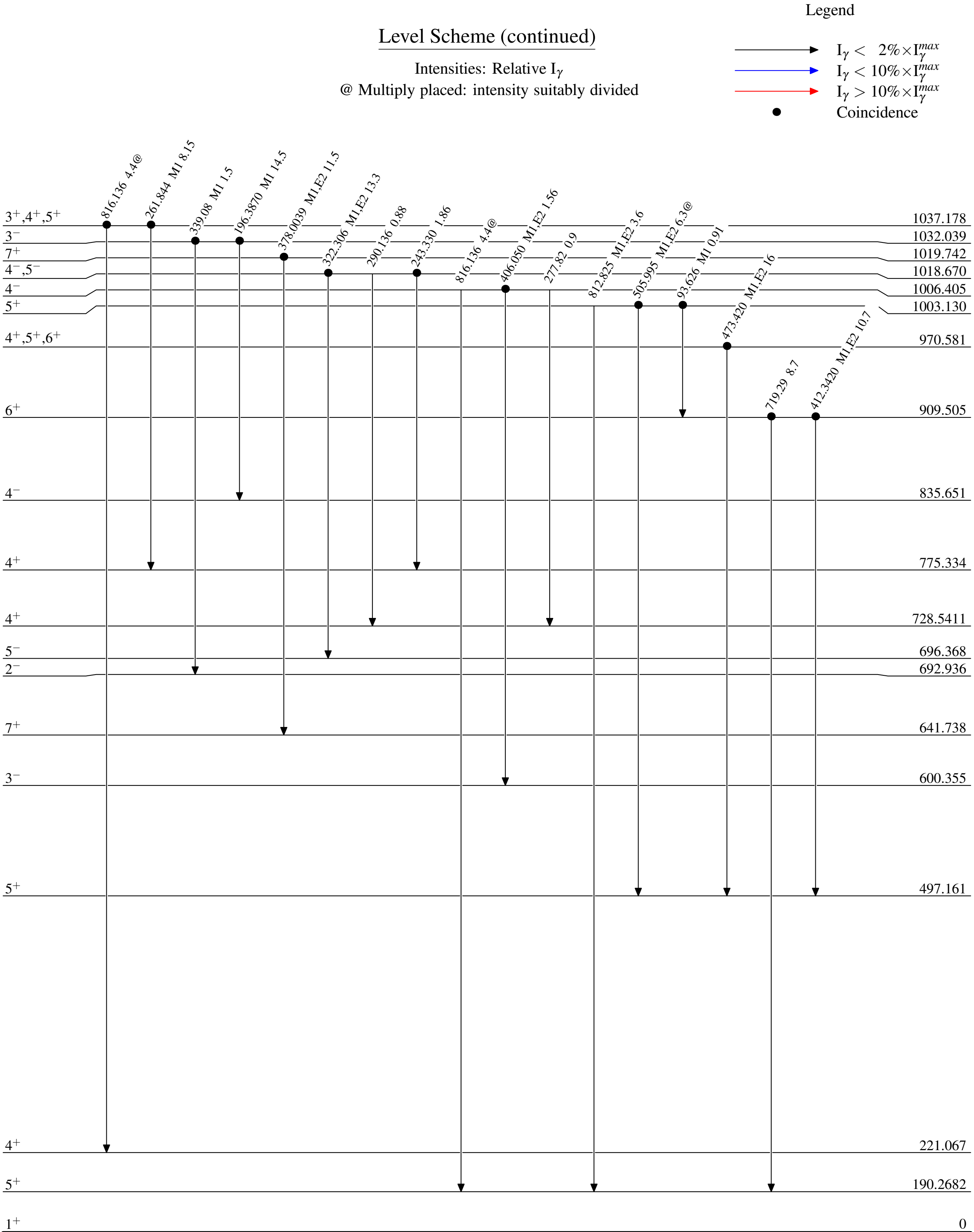
$^{114}_{49}$In$_{65}$

^{113}In(n,γ) E=th 2002SaZO

Level Scheme (continued)

Intensities: Relative I_γ

@ Multiply placed: intensity suitably divided



$^{114}_{49}In_{65}$

^{113}In(n,γ) E=th 2002SaZO

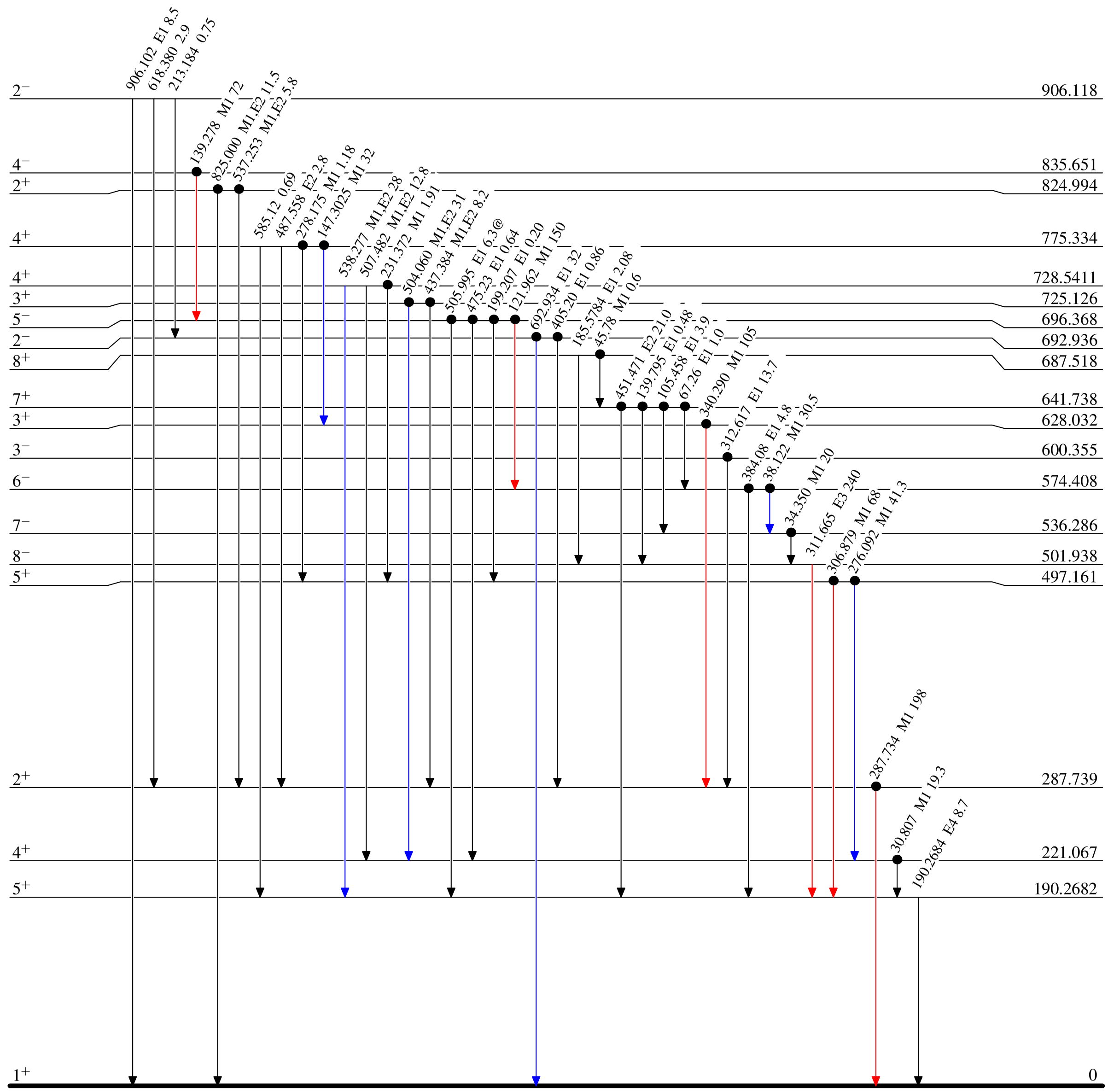
Level Scheme (continued)

Intensities: Relative I_γ

@ Multiply placed: intensity suitably divided

Legend

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



$^{114}_{49}In_{65}$