^{64}Zn(n,γ) E=10-100 keV 1971Bi15

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 111, 2425 (2010)	1-Aug-2009

1971Bi15: E(n)=10-80 keV; measured Eγ, Iγ; n time-of-flight, Ge(Li).
1970AlZP: E(n)=10-100 keV; measured Eγ, Iγ; n time-of-flight, Ge(Li).
Data are from 1971Bi15, except as noted. Uncertainties on Eγ, Iγ not given.
For measured cross sections, deduced resonance parameters and widths see 1969Ju01, 1981Ga04.

^{65}Zn Levels

E(level)	J$^\pi$ †	E(level)	J$^\pi$ †	E(level)	J$^\pi$ †	E(level)	J$^\pi$ †
0	5/2$^-$	1047	5/2$^-$	1905	1/2$^+$	2520	
55	(1/2)$^-$	1253?	7/2$^-$	1942	(1/2,3/2,5/2$^+$)	2577?	(1/2,3/2,5/2$^+$)
114	3/2$^-$	1266?	9/2$^-$	2144?		2720?	(1/2,3/2,5/2$^+$)
207	3/2$^-$	1359		2212?	(1/2,3/2,5/2$^+$)	(7979)	1/2$^+$
764	5/2$^-$	1468	3/2$^-$	2308?			
867	1/2$^-$	1590	7/2$^-$	2420	1/2$^-$		
904	3/2$^-$	1603		2491?	1/2$^+$		

† From Adopted Levels.

γ(^{65}Zn)

E$_\gamma$	I$_\gamma$ †	E$_i$(level)	J$^\pi_i$	E$_f$	J$^\pi_f$	Comments
5259‡	0.3	(7979)	1/2$^+$	2720?	(1/2,3/2,5/2$^+$)	
5402‡	≤0.6	(7979)	1/2$^+$	2577?	(1/2,3/2,5/2$^+$)	
5459	0.3	(7979)	1/2$^+$	2520		E$_\gamma$: confirmed by observation of a 5456γ (1970AlZP).
5488‡	1.0	(7979)	1/2$^+$	2491?	1/2$^+$	
5559	0.7	(7979)	1/2$^+$	2420	1/2$^-$	E$_\gamma$: confirmed by observation of a 5560γ in thermal n capture.
5671‡	0.5	(7979)	1/2$^+$	2308?		
5767‡	1.3	(7979)	1/2$^+$	2212?	(1/2,3/2,5/2$^+$)	
5835‡	0.3	(7979)	1/2$^+$	2144?		
6037	≤0.9	(7979)	1/2$^+$	1942	(1/2,3/2,5/2$^+$)	
6074‡	≤1.0	(7979)	1/2$^+$	1905	1/2$^+$	E$_\gamma$: 6077 (1970AlZP).
6376	≤0.4	(7979)	1/2$^+$	1603		
6389	≤0.4	(7979)	1/2$^+$	1590	7/2$^-$	
6511	0.9	(7979)	1/2$^+$	1468	3/2$^-$	
6620	1.3	(7979)	1/2$^+$	1359		
6713‡	0.1	(7979)	1/2$^+$	1266?	9/2$^-$	
6726‡	0.1	(7979)	1/2$^+$	1253?	7/2$^-$	
6932	0.6	(7979)	1/2$^+$	1047	5/2$^-$	
7075	1.4	(7979)	1/2$^+$	904	3/2$^-$	
7112	1.67	(7979)	1/2$^+$	867	1/2$^-$	
7215	0.88	(7979)	1/2$^+$	764	5/2$^-$	
7772	≤3.5	(7979)	1/2$^+$	207	3/2$^-$	
7865	≤3.0	(7979)	1/2$^+$	114	3/2$^-$	
7924	5.9	(7979)	1/2$^+$	55	(1/2)$^-$	
7979	2.1	(7979)	1/2$^+$	0	5/2$^-$	

† Relative intensity.
‡ Placement of transition in the level scheme is uncertain.

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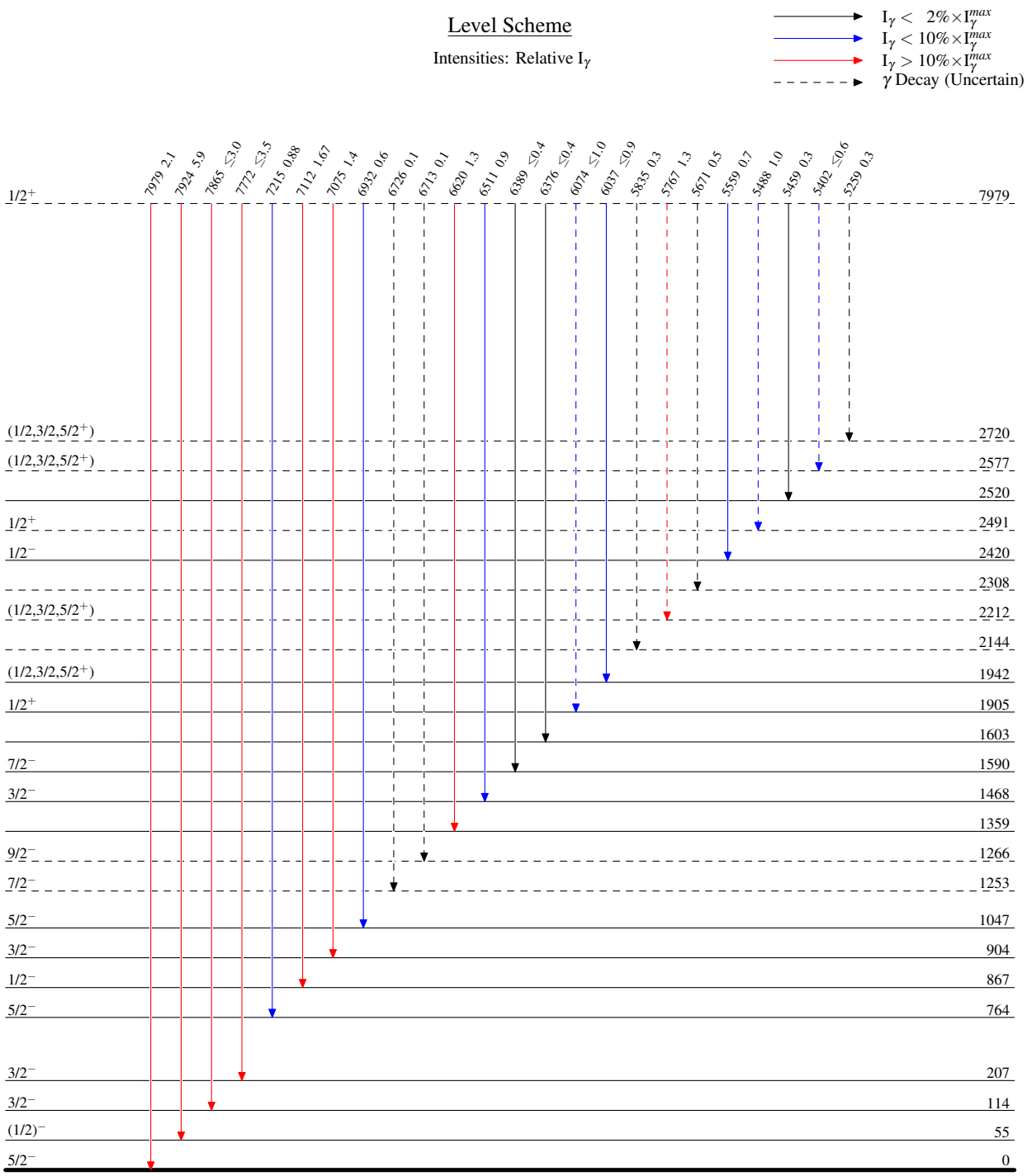
Level Scheme

Intensities: Relative I_γ



$^{65}_{30}Zn_{35}$