^{63}Cu(^{6}He,p2nγ) 2002Vi08

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 111, 1093 (2010)	3-Mar-2009

^{66}Zn produced by a nuclear reaction using a radioactive beam of ^{6}He. The primary reaction was ^{9}Be(^{7}Li,^{6}He)^{10}B, E=28 MeV.
Target: Natural copper. Measured Eγ, $\gamma\gamma$ coin. Detector: Ge hyper-pure.

^{66}Zn Levels

E(level)	J$^{\pi}$[†]	Comments
0.0	0^+	
1039	2^+	
1873	2^+	
2451	$(4)^+$	
2766		
2826?		From Coulomb Excitation.
3080		
3749		
4078		
4184	(6^+)	

[†] From Adopted Levels.

γ(^{66}Zn)

E$_\gamma$	E$_i$(level)	J$_i^{\pi}$	E$_f$	J$_f^{\pi}$	Comments
329	4078		3749		
629	3080		2451	$(4)^+$	
834	1873	2^+	1039	2^+	
893	2766		1873	2^+	
1039	1039	2^+	0.0	0^+	
1298	3749		2451	$(4)^+$	
1412	2451	$(4)^+$	1039	2^+	
1726	2766		1039	2^+	From Coulomb Excitation.
1730	4184	(6^+)	2451	$(4)^+$	
1786[†]	2826?		1039	2^+	From Coulomb Excitation.

[†] Placement of transition in the level scheme is uncertain.

Legend

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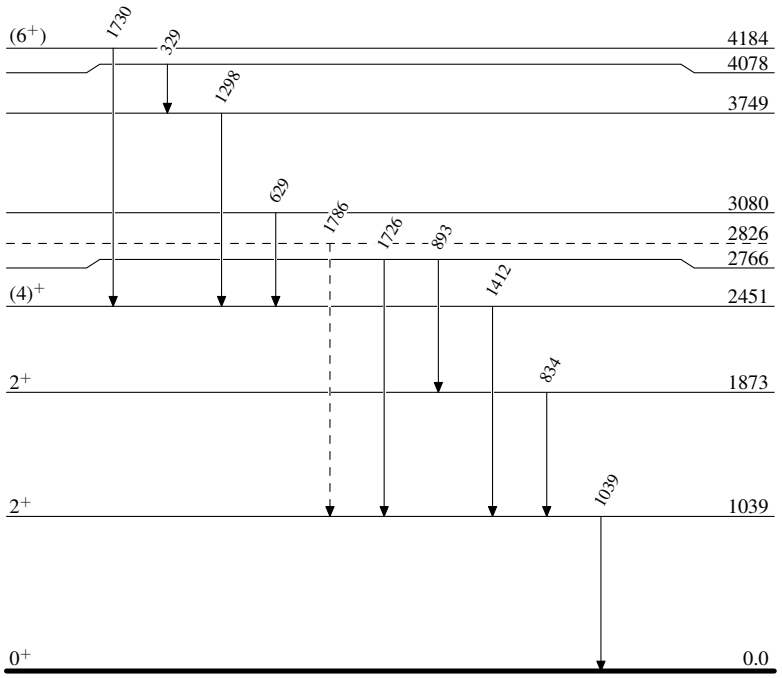
Level Scheme

γ Decay (Uncertain)



$^{66}_{30}Zn_{36}$