^{65}Cu(d,n) 1968Ok08,1966Ok02

History

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

Target $J^{\pi}=3/2^{-}$.
1966Ok02: E(d)=11.7 MeV, FWHM≈300 keV; $\sigma(\theta)$, θ=0°−35 °; n time-of-flight; DWBA analysis.
1968Ok08: DWBA analysis of data from 1966Ok02, deduced L, C^2S'.
1976Wo02: E(d)=8 MeV, pulsed vector polarized beam; σ(E(n),θ), vector analyzing power; θ=5°−30°; DWBA analysis.
All data are from 1968Ok08.

^{66}Zn Levels

E(level)	L[†]	C^2S'[‡]	Comments
0	1	0.17	Transferred proton $p_{3/2-}$ from polarization data (1976Wo02).
1020 *50*	1	0.35	Transition dominated by transferred proton $p_{3/2-}$; though an admixture of $p_{1/2-}$ is not excluded (1976Wo02).
1850 *50*	1	0.20	
2400 *50*			
2850 *50*	1	0.59	
3360 *50*	1	1.19	
3700 *50*	1	1.53	
4070 *50*	1	0.49	
4710 *50*	(1)	0.10	
5000 *50*	(1)	0.18	

[†] From DWBA analysis of $\sigma(\theta)$.
[‡] As recalculated by 1983Wa30 using a (d,n) normalization factor of 1.53 (1977En02).