^{70}Zn(pol t,α) 1981Aj02

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	C. D. Nesaraja	NDS 115, 1 (2014)	31-Jul-2013

1981Aj02: E=17 MeV polarized triton on a 216μg/cm^2 Zn target. α particles measured with Q3D spectrometer. Measured $\sigma(\theta)$ and analyzing power angular distributions for $\theta \approx 10°-40°$ DWBA code DWUCK used for analysis of data.

^{69}Cu Levels

E(level)	J$^\pi$[†]	C^{2}S	Comments
0	3/2$^-$	1.03	
1096 *6*	1/2$^-$	0.41	
1212 *6*	(5/2$^-$)	1.2	J$^\pi$: systematics suggest that this possible doublet state may be 5/2$^-$ and 7/2$^-$. $\sigma(\theta)$ cannot differentiate between these two; analyzing power data are not in agreement with either value though 5/2$^-$ appears more likely. E(level): probable doublet with the spacing of the two unresolved levels estimated to be less than 15 keV by 1981Aj02.
1706 *6*	(7/2$^-$)	1.8	J$^\pi$: the analyzing power data are in fairly good agreement with shape but not with absolute values predicted for J^π=7/2$^-$ level.
1863 *10*	(7/2$^-$)	0.5	J$^\pi$: data more in agreement with J^π=7/2$^-$ rather than 5/2$^-$; problems with contaminant peak in data.
2540 *10*			

[†] From differential cross sections and analyzing powers.