

$^{58}\text{Ni}(^3\text{He},n)$  1972Gr39,1974Ev02

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 114, 1849 (2013)	31-Dec-2012

$E(^3\text{He})=25$  MeV, pulsed beam neutron tof. Measured  $\sigma(\theta)$ ,  $\theta(\text{lab.})=0^\circ$  to  $40^\circ$ . FWHM=100-350 keV (1972Gr39).

$E(^3\text{He})=15, 18, 21$  MeV, pulsed beam neutron tof. Measured  $\sigma(\theta)$ ,  $\theta(\text{c.m.})=0^\circ$  to  $40^\circ$ . FWHM $\approx$ 400 keV (1974Ev02).

Others: 1975Al05, 1972Wi06, 1970Br40, 1967Mi02.

L values are from comparisons of  $\sigma(\theta)$  with a one-step, two-nucleon (in s-state) transfer model.

 $^{60}\text{Zn}$  Levels

$E(\alpha), L(\alpha)$  From 1972Gr39.

$E(\text{level})^\dagger$	$L^\dagger$	Comments
0.0	0	
1019 10	2	
2210 30	4	
3520 30	3	L: 1972Gr39 obtain L=(0). Both L values are in conflict with $J^\pi=2^{(+)}, 4^{(+)}$ from ( $^3\text{He},n\gamma$ ) study.
3980 30	(1)	
4180 30	(0,2)	
4930 40	2	
5200 60	2	
5520 30	2	L: 1972Gr39 obtain L=(4).
6630 30	0	
7380 30	0	E(level): probable T=2 analog of $^{60}\text{Ni}(\text{g.s.})$ .
8730 30	(2,3)	

$^\dagger$  From 1974Ev02, except as noted.