

$^{58}\text{Ni}(^7\text{Li,t})$  1980Cu06

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Alan L. Nichols, Balraj Singh, Jagdish K. Tuli		NDS 113, 973 (2012)	15-Apr-2012

1980Cu06 (also 1980CuZZ thesis): E=34 MeV. Measured triton spectra,  $\sigma(\theta)$  using  $\Delta E$ -E Si telescope. FWHM  $\approx$  250 keV. Data for g.s. and first  $2^+$  state. Analysis and theoretical calculations for g.s.: 1988Ra28, 1985Sh22. Alpha cluster transfer reaction.

 $^{62}\text{Zn}$  Levels

E(level)	L	S <sup>†</sup>	Comments
0	0	1.0	S: absolute S=0.210, assuming the spectroscopic factor for the $\alpha$ +triton configuration of $^7\text{Li}$ is unity. S value is extremely sensitive to the choice of $\alpha$ +target bound-state parameters used in the DWBA calculation. See 1988Ra28 for analysis of these and other data using different geometrical parameters.
940	2	0.28	

<sup>†</sup> Relative spectroscopic factor.