

${}^{63}\text{Cu}({}^6\text{Li}, {}^7\text{Be}), ({}^9\text{Be}, {}^{10}\text{B})$ 1975Hu10, 1985Wi18

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

$J^\pi({}^{63}\text{Cu})=3/2^-$.

1975Hu10: E(${}^6\text{Li}$)=34 MeV, Si telescopes, FWHM=150-175 keV, finite-range DWBA.

1985Wi18: E(${}^9\text{Be}$)=43 MeV, counter telescope, spectrometer, $\sigma(\theta)$, DWBA.

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

E(level)	C^2S^\dagger	Comments
0	0.79	C^2S : for ${}^{10}\text{B}$ in the 3^+ g.s., the authors obtain for $C^2S=0.39$; for ${}^{10}\text{B}$ in the 1^+ first excited state, $C^2S=0.48$ (1985Wi18). See 1985Wi18 for details of the optical-model parameters and for C^2S values deduced for other parameter sets.
1170	0.22	

† From 1975Hu10, adopting shell-model values of C^2S for ${}^7\text{Be}$.