

$^{58}\text{Ni}(\alpha,\text{d})$  **1994Fi01**

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

**1994Fi01:**  $E\alpha=55.6$  MeV, semi telescope,  $\theta=15^\circ$  to  $25^\circ$  in  $2.5^\circ$  steps, FWHM 120 keV; DWBA analysis. Only forward angle spectra given where the high-spin states dominate.

**1969Lu07:**  $E\alpha=50$  MeV, semi telescope, FWHM $\approx$ 200 keV (**1969Lu07**).

Other: **1976Bu10**.

For cross section calculation or reaction mechanism of the  $(\alpha,\text{d})$  reaction, see **1986Li05** and **1988Ud01**.

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

E(level)	$J^\pi$	Comments
0.0	$2^+$	
$60^\dagger$		
$0.45 \times 10^3$	$3$	
$1.63 \times 10^3$	$3$	
$3.15 \times 10^3$	$6^-$	$J^\pi$ : configuration= $((\pi 1p_{3/2})(\nu 1g_{9/2})+(\pi 1g_{9/2})(\nu 1p_{3/2}))$ .
$3.34 \times 10^3$	$3$	
$3.71 \times 10^3$	$3$	
$3.87 \times 10^3$	$3$	
$4.45 \times 10^3$	$3$	
$5.83 \times 10^3$	$3$	
$5.97 \times 10^3$	$9^+$	$J^\pi$ : configuration= $((\pi 1g_{9/2})(\nu 1g_{9/2}))$ Configuration from large cross section and syst.

$^\dagger$  From **1969Lu07**.