

${}^{58}\text{Ni}({}^{16}\text{O}, {}^{13}\text{N})$ [1986OkZV](#), [1985OkZX](#), [1983OkZY](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Kazimierz Zuber, Balraj Singh		NDS 125, 1 (2015)	25-Jan-2015

[1986OkZV](#): E=80 MeV; measured $\sigma(E({}^{13}\text{N}), \theta)$, reaction $Q=-8.3274$ MeV. DWBA analysis.
All data are from [1983OkZY](#), except as noted.

 ${}^{61}\text{Cu}$ Levels

E(level)	$J^{\pi\dagger}$	E(level)	$J^{\pi\dagger}$	E(level)	$J^{\pi\dagger}$	E(level)	$J^{\pi\dagger}$
0.0	$3/2^{-}\#$	1700	$7/2^{-}$	2720	$9/2^{+}$	4060	
480	$1/2^{-}$	1940	$3/2^{-}$	3250	$(11/2^{-})$	4330	
970	$5/2^{-}$	2100	$1/2^{-}$	3400		6460 \ddagger 16	$3/2^{-}\ddagger\#$
1330	$7/2^{-}$	2400	$7/2^{-}$	3740	$(11/2^{-})$		

\dagger From DWBA analysis of $\sigma(\theta)$ and isobaric analog state analysis. These are treated as tentative and not used by the evaluators in the Adopted Levels dataset.

\ddagger From [1985OkZX](#).

$\#$ T=3/2 for g.s. and T=5/2 for 6460 keV from [1985OkZY](#).