

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

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

E=80 MeV, measured spectra and angular distributions by ΔE -E silicon detector telescopes. Isobaric analog state analysis of $\text{ISPIN}_z=1/2, 3/2, 5/2$. Deduced reaction Q value=-11.5040 MeV.
All data are from 1983OkZY, except as noted.

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

E(level)	J^π [†]	L [‡]	S	Comments
0.0	$3/2^-$	1	1	T=1/2
120	$5/2^-$			
390	$1/2^-$ [@]	1 ^{&}	0.95	
940	$5/2^-$ [@]	3 ^{&}	0.20	
1300	$7/2^-$ [@]		0.15	L=4 in table 3 (1983OkZY).
1730				
2030				
2440	$7/2^-$			L=4 in table 3 (1983OkZY).
2770	$9/2^+$ [@]	4		
3380	$3/2^-$ [#]	1		T=3/2 analog g.s ${}^{61}\text{Cu}$ $3/2^-$.
3880				
4380				
5130				
5590				
9990 [#] 70	$3/2^-$ [#]	1		T=5/2 analog g.s ${}^{61}\text{Ni}$ $3/2^-$.

[†] From 1983OkZY, except as noted.

[‡] From DWBA analysis of $\sigma(\theta)$. Values from 1985OkZX, except as noted.

[#] From 1985OkZX.

[@] From 1986OkZV.

[&] From 1983OkZY.