

$^{60}\text{Ni}(\text{p,t})$ 1974GrZK,1974Ko08

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Caroline D. Nesaraja, Scott D. Geraedts and Balraj Singh		NDS 111,897 (2010)	12-Jan-2010

1974GrZK: E=40 MeV, measured $\sigma(\theta)$, DWBA analysis.

1974Ko08: E=46.5 MeV, FWHM \approx 50 keV; measured $\sigma(\theta)$, DWBA analysis.

 ^{58}Ni Levels

E(level) [†]	L [†]	Comments
0.0	0	S =806.
1459 6	2	S =123.
2461 7	4	S =27.
2774 9	(2)	S =5.
2939 20	0	S =15.
3037 9	(1,2)	S =37.
		L: 2 in 1974Ko08.
3266 9	(1,2)	S =23.
		L: 2 in 1974Ko08.
3421 20		S =1.
3618 6	4	S =8.
3773 7		S =1 <i>LT</i> .
3889 10	(2)	S =3.
4103 10	(2)	S =3.
4298 20		S =1.
4337 20		S =2.
4397 8	4	S =22.
4471 20	(3,4)	S =12.
		L: 3 in 1974Ko08.
4515 20		S =3.
4750 7	4	S =33.
5156 11	2	S =44.
		E(level): probable doublet at 5170 40 with L=2(+6) (1974Ko08).
5488 11	4	S =11.7.
5585 13	(3)	S =14.3.
		L: 2 in 1974Ko08.
5960 40	(0)	S =12.5.
6400 40	(2)	S =12.8.
6560 40	(4)	S =11.7.
6740 40		
6860 40	3	S =12.6.
7220 40	(3)	S =16.0.
8830 40	2	S =33.0.
9310 40	4	S =21.4.
9890 40	2	S =23.0.
10630 40	4	S =25.7.
11510 40	(3)	S =13.7.
11850 40	(3)	S =11.1.
14470 40	(0)	S =15.5.

[†] E and L for levels with E>5590 and E(5170,5410) are from 1974Ko08. For E<5590 data are from 1974GrZK. In a priv comm these authors stated that their reported 3500 level was no longer assigned to ^{58}Ni , the J^π values for the 3620 and 3898 levels were taken from the literature, and $\sigma(3898,5410)$ were not integrated values but maximum cross sections.