

$^{62}\text{Ni}(\text{p},\text{p}'),(\text{pol p},\text{p}')$ 1967Te02,1977Va16

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

1967Te02: E=11-11.5 MeV, spectrograph, FWHM=11 keV.

1966Ba50: E=13 MeV, Si counter.

1969Be20: E=12 MeV, $\sigma(\text{E}(\text{p}),\theta)$, DWBA.

1980Fa07: E=35.2 MeV, $\sigma(\theta)$ to g.s. and first 2^+ state.

1977Va16: (pol p,p'), E=20.4, 24.6 MeV.

1985MaZO: (pol p,p'), E=65 MeV.

 ^{62}Ni Levels

E(level) [†]	L&	Comments
0.0		
1169 7	2	$\beta_2=0.19$ (1980Fa07), 0.25 or 0.23 (1977Va16).
2043 7		
2294# 7	2	
2334 7	4	$\beta_2=-0.188$, $\beta_4=0.059$ (1985MaZO).
2890 7		
3050 7		
3150 7		
3168 7		
3249 7		
3265 7		
3363 7		
3464 7		
3518 7		
3750 7	3	$\beta_3=0.19$ (1977Va16).
3844 7		
3853 7		
3965 7		
3992 7		
4012 7		
4035 7		
4050 7		
4144 7		
4153 7		
4175 7		
4197 7		
4225 7		
4312 7		
4393 7		
4404 7		
4436 7		
4454 7		
4502 7		
4618 7		
4652 7		
4704 7		
4712 7		
4780 7		
4835 7		
4847 7		
4860 7		
4885 7		
4949 7		

Continued on next page (footnotes at end of table)

$^{62}\text{Ni}(\text{p,p}')(\text{pol p,p}')$ 1967Te02,1977Va16 (continued) ^{62}Ni Levels (continued)

<u>E(level)[†]</u>	<u>E(level)[†]</u>	<u>E(level)[†]</u>	<u>E(level)[†]</u>	<u>L^{&}</u>
4967 7	5358 10	5682 10	6023 10	
4981 7	5393 10	5709 [‡] 10	6026 10	
4995 7	5421 10	5739 10	6051 10	
5016 10	5459 10	5772 10	6059 10	
5041 10	5465 10	5814 10	6071 10	
5071 10	5488 10	5834 10	6103 10	
5121 10	5511 10	5846 10	6121 10	
5145 10	5540 10	5859 10	6133 10	
5155 10	5545 10	5870 10	6143 10	
5202 10	5565 10	5881 10	6170 10	
5222 10	5578 10	5901 10	6520 [@]	3 [@]
5233 10	5587 10	5917 [‡] 10	6680 [@]	
5280 10	5601 10	5961 10	7030 [@]	3 [@]
5291 10	5630 10	5979 10	7260 [@]	
5331 10	5673 10	5993 10	7620 [@]	

[†] From 1967Te02, except as noted.

[‡] Doublet.

[#] Not 2244 (private communication to H. Verheul, 1974Ve13).

[@] From 1966Ba50.

[&] From DWBA analysis (1969Be20), except as noted.