

$^{64}\text{Ni}(p,t)$ 1975Ko05

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

E=40 MeV, spectrograph, FWHM=12 or 50 keV for two settings, DWBA analysis of $\sigma(\theta)$ data.
Other: [1969DaZV](#).

 ^{62}Ni Levels

E(level)	L [†]	σ (relative) [@]	E(level)	L [†]	σ (relative) [@]	E(level)	L [†]
0.0	0	100	4154 [#] 6	(4)		5420 5	(4)
1172 2	2	39	4226 5	0	2.5	5447 5	0
2047 2	0	2	4315 5			5465 6	
2300 2	2	57	4409 5	2		5541 5	2
2333 3	4	16	4437 5			5574 5	2
2889 3	0	5	4456 5			5628 6	(3)
3053 5	2	0.6	4504 5	(3)		5679 [#] 8	
3153 5	2	8.9	4623 5	0		5808 6	(3)
3172 5	4	2.9	4655 5	3	1.7	5885 [#] 8	(4)
3252 5	2		4712 5	2		5912 8	4
3271 5	4	31	4781 5	2		6047 8	(3)
3465 5			4861 5	(2)		6073 [#] 8	
3518 5	0+2 [‡]		4882 5	4		6126 8	
3751 5	3	6.7	4994 [#] 6	3	1.9	6160 [#] 9	
3853 [#] 6	2		5016 5	4		6253 [#] 9	(4)
3969 5	2		5148 5	(2)		6313 [#] 9	
3997 5	4	1.9	5203 5	2		6354 8	2
4011 5			5286 [#] 6	(2)		6398 8	4
4049 5	4		5355 5	4		6454 8	

[†] From comparison of $\sigma(\theta)$ with those of low-lying levels with known J^π .

[‡] $\gamma\gamma$ correlation data from $^{61}\text{Ni}(n,\gamma)$ ([1970Fa06](#)) does not allow a 0^+ level in this group.

[#] Doublet.

[@] Experimental cross sections are compared with theoretical predictions in table IV of [1975Ko05](#).