

$^{110}\text{Pd}(\text{}^3\text{He,d})$ 1977An18

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 110, 1239 (2009)	1-Feb-2008

$E(\text{}^3\text{He}) = 33.2$ MeV.

Energy-loss spectrometer resolution = 25 keV FWHM.

 ^{111}Ag Levels

E(level) [‡]	L [†]	C ² S'	Comments
0	1	0.96	
128	4	1.90	Interpreted as g _{9/2} proton state.
286	1	0.47	
373	2	0.86	J ^π : C ² S' for J=3/2.
400	0	0.37	
542	4	2.08 [@]	
566	2	1.04 [#]	
605	2	0.16 [#]	
641	1	0.24	
687	4	0.011	
817	(4)	0.21	C ² S': J=9/2 ⁺ assumed. E(level): ΔE=5 given by authors, ΔE=10 by evaluators to agree with adopted.
868	1+4		E(level): high-J component may correspond with 876-keV state in 5.5-h ^{111}Pd decay.
1012	4	0.66,0.33 [@]	J ^π : C ² S' for J=9/2 ⁺ .
1082	1	0.050	J ^π : C ² S' for J=1/2 ⁻ .
1147	0+2		
1187	2	0.18 [#]	E(level): associated with 1180-keV state in 23-min ^{111}Pd decay ΔE=5 given by authors, ΔE=10 by evaluators to agree with adopted.
1218	2	0.11 [#]	E(level): ΔE=5 given by authors, ΔE=10 by evaluators to agree with adopted.
1278	1	≈0.017	
1443	0	0.15	
1476	0	0.06	
1588	2	0.56 [#]	
1621	2	0.24 [#]	
1654	2	0.17 [#]	
1683	(2)	0.06 [#]	
1727	2	0.12 [#]	
1770	4	1.19 [@]	
1832	2	0.03 [#]	
1941	0	0.03	
1986	2	0.08 [#]	
2093	4	0.95 [@]	
2136	0+2+4		
2188	0+4		
2223	0+4		
2298	(2)	0.03 [#]	
2342	(1)	≈0.025	
2375	(0)	0.014	

[†] Based on angular distributions at 19 angles 12.5°–50° compared with DWBA calc.

[‡] Authors state that the uncertainties range from 5 keV for the lower-lying states to 10 keV for the states around 2000.

[#] J=5/2⁺ assumed to extract spectroscopic factors; see 1977An18 for discussion of orbital fragmentation.

[@] J=7/2⁺ assumed to extract spectroscopic factors; attributed to g_{7/2} proton orbital from summed spectroscopic strengths.