

$^{102}\text{Pd}(\text{d,p})$ 1973RiZL

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	D. De Frenne	NDS 110, 2081 (2009)	1-Mar-2009

The evaluator considers the unpublished results of 1973RiZL as tentative. He strongly recommends new accurate (d,p) experiments. 1973RiZL: Ed=15 MeV. $\Delta E=2$ keV increased by the evaluator to 7 keV to correspond to Adopted Levels; resolution 20^- to 30-keV FWHM, semi.

Others: 1966HaZZ, 1973Ri10.

 ^{103}Pd Levels

E(level)	L [†]	S [‡]	Comments
0.0	2	2.96	
117	2	0.09	
245	2	3.82	
272	7	0.08	
297?	2	(0)	E(level): observed only in (d,p) by 1973RiZL.
500	2	0	E(level): may be unresolved doublet corresponding to 499-504 keV doublet observed in ^{103}Ag ϵ decay and $^{103}\text{Rh}(\text{p},\text{n}\gamma)$.
535	2	0.35	If identical to 532-keV level observed in ^{103}Ag ϵ/β^+ decay, $^{94}\text{Zr}(^{12}\text{C},3\text{n}\gamma)$ and $^{103}\text{Rh}(\text{p},\text{n}\gamma)$ and 533-keV level in (d,t), L assignment is in disagreement with adopted $J^\pi=7/2^+$ value for this level.
626	2	0.91	
703	7	(2)	(0.12)
727	2	0	0.19
787	7	5	6.54
880	7	2	0.40
915	2	2,(1)	0.55,(0.2)
1044	2	2	0.49
1093?	2	2	0.16
1198?	2	2	0.72
1277	2	2	0.23
1472?	2	2	0.12
1559?	2	0	0.04
1595	2	0,(1)	0.05
1659?	2	0,(4)	0.15,(2.3)
1833	2	2	0.35
1886	2	0,(4)	0.27,(5.2)
1947	7	2	0.17

[†] Deduced from angular distributions compared with DWBA.

[‡] From 1973RiZL they suggest spins from (d,p)/(d,t) spectroscopic strengths. See 1976Sm06 for summed S' (exp vs theory) compared with ^{101}Pd , ^{105}Pd .