^{105}Pd(d,p)   1969Di14

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	D. De Frenne and A. Negret	NDS 109, 943 (2008)	1-May-2007

E(d)=17 MeV. Measured: proton spectra at $\theta=10°-50°$, magnetic spectrograph resolution (FWHM) is 10-12 keV. Deduced: ^{106}Pd levels, L, S′.

Other: 1966So01.

^{105}Pd($J^{\pi}=5/2^{+}$).

^{106}Pd Levels

ΔE: Uncertainty≈±3 keV (1969Di14).

E(level)	J^{π} [@]	L [#]	S [&]	Comments
0.0	0^+	2	0.33	
511	2^+	2(+0)	0.12	
1130[‡]	2^+	0+2	0.03+0.15	
1229	4^+	(2)	0.03	
1561[‡]	2^+	2	0.21	
1910	2^+	(0)	0.01	
1936[‡]	4^+	2	0.05	
2084[‡]	3^-	2+5	0.03+0.03	
2242	2^+	0	0.17	
2282?	4^+			
2310	2^+	2(+0)	0.10	
2353?	4^+			
2398	$(5)^-$	5	0.05	
2441	2^+	2(+4)	0.04	
2471	$1^+,2^+$	2	0.20	
2502	2^-	0+2	0.04+0.05	J^{π}: not consistent with L=0+2, but level may be unresolved doublet in (d,p).
2579	(5^-)			J^{π}: $J^{\pi}=(4^-)$, in contradiction with adopted value. L=2+0 and S=0.04+0.03 for the 2579-2592 doublet.
2592	$(2,3)^+$			J^{π}: L=2+0 and S=0.04+0.03 for the 2579-2592 doublet.
2627	$(2,3)^+$	2	0.12	
2648	4^+	2	0.05	
2699?	$(6)^-$			
2714	$(2,3)^+$	2+0	0.33+0.12	
2736[‡]	4^+	2	0.10	
2757	5^+	2+4	0.09+0.05	
2776	(4^+)	2+0	0.27+0.10	
2791?	(7^-)			
2815	2^+	0(+2)	0.09	
2828?	0^+			
2852	$2^+,3^+$	2+0	0.08+0.04	
2879	0^+	2	0.11	
2903	2^+	0(+2)	0.15	
2918	2^+	2+0	0.08+0.06	
2955	5^+	4+2	0.04+0.04	
2975[‡]	$+$	4+2	0.04+0.05	
3002?				
3026	$+$	2	0.37	
3044	4^+			J^{π}: L=2(+0) and S=0.27 for the 3044-3055 doublet.
3055	1^+			J^{π}: L=2(+0) and S=0.27 for the 3044-3055 doublet.
3069?	2^+			

Continued on next page (footnotes at end of table)

^{106}Pd Levels (continued)

E(level)	$J^{\pi\,@}$	$L^{\#}$	$S^{\&}$
3085?	0		
3098	(2^+)	2	0.17
3121	$2^+,3^+$	2+0	0.36+0.21
3144	$2^+,3^+$	0	0.24
3175‡	$(2^+,3^+)$	2+0	0.16+0.12

† Uncertainty≈±3 keV (1969Di14).

‡ Unresolved doublet.

$^{\#}$ Deduced from angular distributions ($\theta=10°-50°$) compared with DWBA calc.

$^{@}$ From Adopted Levels.

$^{\&}$ $S'=(2J+1)S$ is listed.