

$^{106}\text{Pd}(\text{p,d})$ 1975An06,1983Ao01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. Lalkovski, J. Timar and Z. Elekes		NDS 161, 1 (2019)	1-Apr-2019

[1983Ao01](#): Facility: University of Tsukuba 12 UD Pelletron; Beam: E(pol p)=22.0 MeV; Target: 2.4 mg/cm² enriched in ^{106}Pd to 96.66% Detectors: magnetic spectrograph with a Si position sensitive detector or single-wire proportional chamber, placed in its focal plane; Measured: $d\sigma/d\Omega(\theta, E)$, $A(\theta)$; Deduced: L from DWBA.

[1975An06](#): Facility: Univ. Colorado 132-cm AVF cyclotron; Beam: E(p)=22.9 MeV; Target: $\approx 200 \mu\text{g}/\text{cm}^2$ enriched to 82.3% in ^{106}Pd ; Contaminants: ^{105}Pd (11.25%) and ^{108}Pd (4.56); Detectors: QQD beam swinger and QQQQ magnetic spectrograph, proportional chamber and one plastic scintillator in coinc., Faraday cup; Measured: E, $d\sigma/d\Omega(\theta, E)$.

Other: [1973Is09](#), [1973PEZK](#), [1972ISZW](#).

 ^{105}Pd Levels

E(level) [†]	L [‡]	S [#] @	Comments
0	2	1.78	S: other: 2.0 (1983Ao01). configuration: $\nu 2d_{5/2}$.
280	2	0.44	
306	4	2.52	configuration: $\nu 1g_{7/2}$.
319	2	0.36	
344	0	0.31	
447	2	0.04	S: given for $J^\pi=5/2^+$.
489	5	0.85	configuration: $\nu 1h_{11/2}$.
535			
561			
650	2	0.61	
674	0	0.05	
727	2	0.47	
784	4	0.54	
808			
929	2	0.14	
964	0	0.09	
972			
1098			

[†] From [1975An06](#).

[‡] From $d\sigma/d\Omega(\theta, E)$ and DWBA analysis in [1975An06](#); Poor description of the L=2 states at $\theta=2.5$ and 5.0° .

[#] Label= C^2S .

[@] From $C^2S=(2J+1)\sigma_{\text{exp}}/\sigma_{\text{dw}}1/N$, where $N=22.9$.