

$^{108}\text{Pd}(p,t)$  1977Kr02

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

E=29.7 MeV. Measured:  $\sigma(\theta)$  and level energies. Q3D spectrograph resolution: FWHM=13 keV. Deduced:  $^{106}\text{Pd}$  levels, L,  $J^\pi$ .  
Others: 1976KoYU at E=52 MeV; 1975Ku14 at E=19 MeV.

 $^{106}\text{Pd}$  Levels

Cross section ( $\mu\text{b/sr}$ ) at  $20^\circ$  are given (1977Kr02).

$\Delta E$ : Uncertainty  $\approx \pm 4$  keV.

E(level)	L <sup>‡</sup>	S	Comments
0.0	0	557	
512	2	78	
1128 <sup>†</sup>		7.2	L(1128+1134)=0+2.
1134 <sup>†</sup>		27	L(1128+1134)=0+2.
1228	4	12.3	
1562	2	7.7	
1706	0	6.4	
1911	(3)	4.6	L: inconsistent with adopted $J^\pi=2^+$ .
1934	(4,3)	19.1	
2002	0	7.9	
2077 <sup>†</sup>	(4)	83	L: 3+4 for unresolved 2077+2085 states (1977Kr02).
2085 <sup>†</sup>	3		L: from 1975Ku14 angular distribution.
2242	2	5.4	
2284	4	29	
2307		4.1	
2352	4	4.6	
2398	(5)	9.0	
2439	2	6.1	
2500	2	90	L: in contradiction with adopted $J^\pi$ . Probably unresolved doublet.
2579		5.1	
2647	4	35	
2737 <sup>†</sup>		47	
2752 <sup>†</sup>	4		
2775	(4)	(26)	
2783	(2)	(26)	
2828		4.6	
2917	2	27	
2971		21	E(level): multiplet of 4-6 states.
3221	(0)	13	
3251	(2)	21	

<sup>†</sup> Unresolved doublet.

<sup>‡</sup> Deduced from angular distributions at 8 angles ( $\theta=11^\circ-50^\circ$ ), compared with DWBA calc.

# Uncertainty  $\approx \pm 4$  keV.