^{106}Pd(d,t) 1963Cu02,1980Sc23

History

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

1963Cu02: Facility: Pittsburgh cyclotron; Beam: E(d)=15 MeV; Target: ≈3 mg/cm^2 thick, enriched to≈90% in ^{106}Pd; Detectors: magnetic spectrograph, photographic plates; Measured: dσ/dΩ(θ) and compared to DWBA. ΔE(t)=50 keV; The statistical uncertainty is 8 keV.

1980Sc23: Facility: KVI cyclotron; Beam: E(d)= 50 MeV; Target: 500 μg/cm^2 self-supporting Pd metallic foil; Detectors: ΔE-E solid-state detector telescope; Measured: dσ/dΩ(θ, E); Deduced: level energies, L from DWBA analysis.

Others: 1973RiZL.

^{105}Pd Levels

E(level)[†]	L[‡]	S[#@]	Comments
0 *8*	2	2.05	
321 *8*	2+4	0.56	S: for L=2; Otherwise 4.54 for L=4.
441 *8*			
486 *8*			
652 *8*			
692 *8*			
721 *8*			
785 *8*			
939 *8*			
979 *8*			
1068 *8*			
1105 *8*			
1155 *8*			
1242 *8*			
1288 *8*			
1417 *8*	5	0.90	

[†] From 1963Cu02.
[‡] From 1980Sc23, based on DWBA analysis with DWUCK.
[#] Label=C^{2}S.
[@] From ((2j+1)/N)(dσ/dΩ)$_{exp}$/(dσ/dΩ)$_{DWUCK}$ and N=3.33 in 1980Sc23.