^{106}Pd(α,α') 1992Ri02

History

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

Eα=30.5 MeV. Measured $\sigma(\theta)$. Deduced: ^{106}Pd levels optical model parameters. Coupled channel calculations, harmonic vibrational model. Deduced: deformation parameters, isoscalar transition rates. Enriched target. FWHM=70 keV.

^{106}Pd Levels

E(level)[†]	J^π[‡]	Comments
0.0	0^+	
512	2^+	
1129	2^+	Member of an unresolved doublet with 1135 level. Angular distribution consistent with L=0+2.
1135	0^+	Member of an unresolved doublet with 1129 level. Angular distribution consistent with L=0+2.
1229	4^+	
2084	3^-	
2282	4^+	
2399	5^-	
2494	$(3^-,4^+)$	J^π: Adopted $J^\pi=1^-$.
2646	4^+	
2758?	$(3^-,4^+)$	$J^\pi=5^+$ in Adopted Levels. Unlikely that an unnatural parity level would be excited in (α,α').

[†] No uncertainties given by the authors.
[‡] From coupled-channel fits. In agreement with adopted values, unless noted otherwise.