^{108}Pd(t,p) 1977An01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	G. Gürdal and F. G. Kondev	NDS 113, 1315 (2012)	1-Aug-2011

ET=17 MeV. The beam was provided by Los Alamos Scientific Laboratory FN tandem Van de Graff accelerator. 27 μg/cm^2 thick ^{108}Pd (98% enriched) target with a 20 μg/cm^2 carbon backing was used. The protons were momentum analyzed in a Q3D Type II magnetic spectrometer. A position sensitive proportional counter was used in the focal plane of the spectrometer. A plastic scintillator was placed at the back of the counter and used for particle identification. FWHM=10-15 keV. Measured: $\sigma(\theta,E(p))$, E(level). Deduced: L-values using DWBA-analysis.

^{110}Pd Levels

E(level)[†]	Jπ[‡]	L[#]	Comments
0.0	0^+	0	
374[@]	2^+	2	
814[@]	2^+	2	
921[@]	4^+	4	
946[@]	0^+	0	
1175	0^+	0	
1215	(2^+)	(2)	
1891	(2^+)	(2)	
1935		(4)	L: 5 or 6 can not be excluded.
2038[@]	3^-	3	
2135	2^+	2	
2283	5^-	5	
2431	4^+	4	
2491	3^-	3	
2517	2^+	2	
2548	(2^+)	(2)	
2637	(4^+)	(4)	
2658	2^+	2	
2693	4^+	4	
2744		(5,6)	
2760			

[†] From 1977An01, uncertainties range from ≈2 keV for the low-energy levels (< 2038 keV), to ≈10 keV for the high-energy levels (> 2038 keV).
[‡] From the deduced L values.
[#] From 1977An01, deduced by comparing the experimental angular distributions with the DWBA calculations.
[@] Value used for calibration.