^{108}Pd(^{3}He,n) 1977Fi04

History

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

E(^{3}He)=25.4 MeV. The experiment was performed at University of Colorado's rotating beam neutron time-of-flight spectrometer. The neutrons were detected using 5cm thick by 20cm diameter cylindrical cells of NE224 liquid organic scintillator. The data were taken using the 9m flight path facility which has three detectors at fixed positions and spaced 8° apart. Angular distributions were obtained for θ= 0° to 25°. Measured: $\sigma(\theta$,E(n)), n-tof, time resolution 1 ns corresponds to FWHM≈400 keV. DWBA analysis.

^{110}Cd Levels

E(level)[†]	J$^{\pi}$[#]	L[‡]
0.0	0^+	0
1440	0^+	0
2490	$0^+,2^+$	0+2[@]
3730	$0^+,2^+$	0+2[@]
4290	0^+	0
4660	0^+	0

[†] From 1977Fi04.
[‡] From comparison of measured angular distributions with zero-range DWBA calculations using DWUCK4 code in 1977Fi04.
[#] From L-values in 1977Fi04.
[@] Higher L-transfer can not be ruled out due to the quality of data.