^{112}Cd(p,t) 1972Co22,1981HyZY

History

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

1972Co22: E(p)=27.9 MeV. The proton beam was provided by the Princeton AVF cyclotron. Reaction products were detected using a silicon surface-barrier detector telescope. Measured: σ(E(t),θ), θ=8°−60°, 3°−5° steps, FWHM≈30 keV. DWBA analysis.
1981HyZY: E(p)=54.6 MeV. ≈1 mg/cm^2, self-supporting, enriched ^{112}Cd target was used. Measured: σ(E(t),θ), 4 angles, FWHM≈15 keV. DWBA analysis.
Others: 1982Cr01, 1965Ba20.

^{110}Cd Levels

E(level)	J$^\pi$[†]	L	Comments
0.0[‡]	0$^+$	0[‡]	
660[‡]	2$^+$	2[‡]	
1543[#]	(4$^+$)	(4)[#]	
2480[#]	(6$^+$)	(6)[#]	
3274[#]	(8$^+$)	(8)[#]	
3344[#]	(9$^-$)	(9)[#]	E(level): 3385 keV in Figure 6, 3344 keV in authors′ level scheme (1981HyZY).

[†] From deduced L values obtained by comparison of experimental angular distributions with DWBA calculations in 1972Co22 and 1981HyZY.
[‡] From 1972Co22.
[#] From 1981HyZY.