^{111}Cd(p,n) 1974Ki02

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 110, 1239 (2009)	1-Feb-2008

E(p)=2.7-5.2 MeV.
Other: 1969Ki08, E(p)=4.2-5.4 MeV tof.
Q(p,n)=−1635 *20* (1974Ki02), −1648 *5* (1993Au05) mass adjustment.

^{111}In Levels

E(level)†	J^π‡	$T_{1/2}$	Comments
0.0	$9/2^+$		
539 *6*	$1/2^-$	7.7 min *2*	$T_{1/2}$: from Adopted Levels. J^π: from n angular distribution compared with Hauser-Feshbach prediction (1969Ki08).
805 *6*	$3/2^-$		
1102 *5*	$(5/2^+)$		J^π: $1/2^+$ is less likely.
1160 *5*			
1192 *5*	$(1/2^+)$		J^π: $5/2^+$ is less likely.
1282 *5*	$(3/2^+)$		J^π: inconsistent with (p,nγ) results of 1976Di03.
1348 *5*			
1500 *8*			
1542 *8*	$(7/2^+,9/2^+)$		
1608 *5*			

† From neutron tof spectrum.
‡ From n-enhanced yields (exp vs theory) normalized to enhancement for 7.7-min, $1/2^-$ isomeric state. The n-enhanced yield is ascribed to ^{112}In $J=0^+$ IAR (at 4022 keV) of ^{112}Cd g.s..