

$^{239}\text{Pu}(\text{d,p})$ 1973Fr01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, E. Browne		NDS 109, 2439 (2008)	31-Jul-2008

Target $J^\pi=1/2^+$.

E=12 MeV. Authors compared σ/σ (g.s. band) ratio with those determined in (p,t). Cross sections measured at 100° and 125° .

 ^{240}Pu Levels

E(level)	J^π [‡]	Relative population [†]	Comments
0	0 ⁺	1	
42	2 ⁺	1	
142	4 ⁺	1	
862	0 ⁺	0.18 4	
902	2 ⁺	0.25 3	
1005	(3 ⁻)	0.28 5	J^π : 1973Fr01 suggested 4 ⁺ .
1091	0 ⁺	0.904 16	E(level): doublet.
1137	(2 ⁺)	0.75 7	
1227	(2 ⁺ ,4 ⁺)	1.06 12	E(level), J^π : 1223.0, (2 ⁺) and 1232.5, (4 ⁺) levels in 'Adopted Levels'. 1973Fr01 suggested 4 ⁺ .

[†] Average of data At 100° and 125° .

[‡] From 'Adopted Levels'.