
 $^{100}\text{Mo}(\text{p,p})$ IAR [1966Mo06](#)

Type	History		Literature Cutoff Date
	Author	Citation	
Full Evaluation	Jean Blachot	ENSDF	1-Jul-2006

E(p)= 6.55 MeV; resolution 40– 70 keV for E(p)= 5 MeV; semi.

Coulomb displacement energy= 11.93 MeV 3 ([1966Mo06](#)).

 ^{101}Tc Levels

E(level) [†]	L [‡]	S [#]	Comments
13983 27	0	0.41 12	Analog of ^{101}Mo g.s., $J^\pi=1/2^+$; E(level)=13.5 (3/2 ⁺) is resolved. $\Gamma(\text{p})= 30 \text{ keV } 6$, $\Gamma= 73 \text{ keV } 14$.
14092 28	2	0.24 8	Analog of ^{101}Mo 57-keV L=2 (d,p) excitation. $\Gamma(\text{p})= 9 \text{ keV } 2$, $\Gamma= 45 \text{ keV } 9$.
14340 28	(2)		Possible analog of ^{101}Mo 349-keV L=0 (d,p) excitation if L=(2) via (p,p) is incorrect.
14379 28	(2)		

[†] From S(p)= 7441 25 ([2003Au03](#)) + res E(p)(c.m.).

[‡] From analysis of (p,p) excit curves.

[#] For comparison with (d,p) analog states of ^{101}Mo , see [1972Si25](#).