^{100}Mo(d,p), (pol d,p)   **1990Ha43**

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

E= 12 MeV (1990Ha43), polarized beam, analyzing powers, FWHM=14 keV, five angles. Preliminary results were given in 1984HaZH.

E= 14 MeV Q3D s; FWHM= 5 keV (1990Se17), eight angles.

E= 15 MeV: 1964Hj02 s, six angles.

E= 12 MeV; 1969Bo27.

E= 3.75 MeV (1972Si25), five angles.

^{101}Mo Levels

E(level)[†]	J$^\pi$ [@]	L[‡]	S[&]	Comments
0	1/2$^+$	0	0.42	
13.5		2,3		
56?		4,5		E(level): Questionable from 1990Se17. Not adopted.
57	5/2	2	0.25	
171		2,3		
238		2		L: L=3 from 1990Ha43, the last DWBA of 1990Se17 rules out L=3.
240	7/2	4		
271 *1*	11/2$^-$	5		
289	3/2	2	0.12	
295		0		
315 *3*		3,4		
352	3/2$^+$	2		L: L=0 given by 1972Si25.
				J$^\pi$: DWBA analysis agrees with (3/2$^+$).
455	5/2$^+$	2		L: L=0 seen only by 1990Ha43 for E(level)=449.
480	3/2	2	0.11	
540	1/2	0		
564		5		
568	5/2	2		
569		0		
583		4		
710		(0)		L: from 1964Hj02.
800		(1)		E(level): from 1964Hj02. Peak probably corresponds to the 797 and/or 811 levels.
830		4[#]		
868	3/2	2[#]		
903		0,2,(1)		L: from 1972Si25.
914		4[#]		
984	3/2	2[#]		
1011	1/2	(0)		L: from 1964Hj02.
1047		0[#]		
1109	3/2	2[#]		
1291	3/2	1[#]		
1334	5/2	3[#]		
1459		5[#]		

[†] Rounded values from Adopted Levels.

[‡] Deduced from exp angular distributions compared with DWBA L taken from 1990Se17, unless otherwise noted.

[#] From 1990Ha43 in (t,d).

[@] From 1990Ha43 in (pol d,p).

[&] S′ is given (1972Si25).