

$^{100}\text{Mo}(\text{pol p,d})$ 2003Hi01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 145, 25 (2017)	1-Jul-2017

Based on XUNDL. Compiled by: M. Lee and B. Singh (McMaster) June 12, 2003.

E=65 MeV. Measured deuteron spectra, $\sigma(\theta)$, $A_y(\theta)$ using an ESP-90 spectrograph with a position-sensitive proportional counter detector system. FWHM=50 keV for the region above 2 MeV, and better than 40 keV for the lower region. Deduced spectroscopic factors, DWBA calculations.

 ^{99}Mo Levels

E(level)	J^π	L	C ² S	E(level)	J^π	L	C ² S	E(level)	J^π	L	C ² S
0	1/2 ⁺	0	0.15	1182 17	3/2 ⁺	2	0.15	2145 50	9/2 ⁺	4	1.65
99 2	5/2 ⁺	2	1.90	1262 27	1/2 ⁺	0	0.01	2203 50	1/2 ⁻	1	0.24
233 5	7/2 ⁺	4	1.32	1340 28	7/2 ⁺	4	0.25	2373 50	3/2 ⁻	1	0.23
335 7	3/2 ⁺	2	0.07	1382 12				2473 50	3/2 ⁻	1	0.30
541 15	1/2 ⁺	0	0.19	1489 36	5/2 ⁺	2	0.08	2579 50	1/2 ⁻	1	0.18
621 20	(5/2 ⁺)	2	(0.30)	1549 36	3/2 ⁺	2	0.20	2650 50	3/2 ⁻	1	0.07
686 17				1744 36	5/2 ⁺	2	0.08	2743 50	1/2 ⁻	1	0.07
789 9	3/2 ⁺	2	0.13	1832 38	1/2 ⁻	1	0.06	2774 50	1/2 ⁻	1	0.06
909 15	1/2 ⁺	0	0.06	1947 38				2847 50			
952 15	5/2 ⁺	2	0.16	2064 50	1/2 ⁻	1	0.03	2921 50	1/2 ⁻	1	0.18
1047 23				2087 50	1/2 ⁻	1	0.07				