

<sup>98</sup>Mo(d,t) 1975Vi06

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 111, 525 (2010)	19-Nov-2009

**1975Vi06:** polarized d, ED=12.0 MeV; measured  $\sigma(E,\theta)$  FWHM=50-75 keV; solid state counter telescopes; L from DWBA analysis of  $\sigma(\theta)$ ,  $J^\pi$  from analyzing power.

**1969Oh05:** ED=23 MeV; measured  $\sigma(E,\theta)$ , silicon detector telescopes; L from DWBA analysis (S=3.3).

**1964Hj02:** ED=15 MeV; measured  $\sigma(E,45^\circ)$ ; spectroscopic factors obtained by comparing the absolute  $\sigma$  at  $45^\circ$  with the corresponding  $\sigma$  in <sup>96</sup>Zr.

<sup>97</sup>Mo Levels

All data from **1975Vi06**, unless otherwise noted.

E(level)	$J^\pi$ <sup>†</sup>	L	C <sup>2</sup> S	Comments
0.0	5/2 <sup>+</sup>	2	3.15	
680	1/2 <sup>+</sup>	0	0.33	
720	3/2 <sup>+</sup>	2	0.33	
890	1/2 <sup>+</sup>	0	0.033	
1120 10	5/2 <sup>+</sup> , 11/2 <sup>-</sup>	2+5	0.05+0.49	$J^\pi$ : L=5 component has J=11/2 <sup>-</sup> from analyzing power ( <b>1975Vi06</b> ).
1280 10	5/2 <sup>+</sup>	2	0.50	$J^\pi$ : J=5/2 from analyzing power ( <b>1975Vi06</b> ).
1560 <sup>‡</sup> 20				
1710 <sup>‡</sup> 20				C <sup>2</sup> S: S=0.25.
1780 <sup>‡</sup> 20				C <sup>2</sup> S: S=2.0.
2060 <sup>‡</sup> 20				C <sup>2</sup> S: S=0.06.
2170 <sup>‡</sup> 20				C <sup>2</sup> S: S=0.25.
2390 10	1/2 <sup>-</sup> , 3/2 <sup>-</sup>	(1)	0.47	C <sup>2</sup> S: if J=1/2.
2520 10	9/2 <sup>+</sup>	4	1.52	$J^\pi$ : J=9/2 from analyzing power ( <b>1975Vi06</b> ).
2830 30	1/2 <sup>-</sup> , 3/2 <sup>-</sup>	1	0.2	E(level),L,C <sup>2</sup> S: from <b>1969Oh05</b> .

<sup>†</sup> From Adopted Levels.

<sup>‡</sup> From **1964Hj02**.