

$^{96}\text{Mo}(\text{p,t})$  1973La04

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola(a), A. A. Sonzogni		NDS 107, 2423 (2006)	1-Jan-2006

 $^{94}\text{Mo}$  Levels

E=31 MeV. Enriched targets. Magnetic spectrometer, FWHM=20 keV.

Other measurements: 1972Mo35, 1971Ta16, 1987Na20 (pol p, analyzing power for transition to first 2<sup>+</sup> state).

E(level)	L <sup>†</sup>	S <sup>‡</sup>	E(level)	L <sup>†</sup>	S <sup>‡</sup>	E(level)	L <sup>†</sup>	S <sup>‡</sup>
0	0	1.8&	2540 5	(5) <sup>@</sup>	0.20 <sup>b</sup>	3455 5	(2)	
870 5	2	0.18&	2570 5	4	0.11&	3700 5	0	2.0 <sup>c</sup>
1575 5	4	0.6&	2615 5			3800 5	3	0.2 <sup>b</sup>
1865 5	(2)	0.06&	2775 5			3995 5	2	0.3 <sup>c</sup>
2070 5	2	0.5&	2870 5			4095 5	2	0.8 <sup>c</sup>
2300 5	(4,3) <sup>#</sup>	0.10,0.15&a	3320 5	0	0.75 <sup>c</sup>	4140 5	2	0.3 <sup>c</sup>
2395 5	2	0.035&	3375 5	(5)	0.06,0.04&b			
2425 5			3405 5	2	0.25,0.07 <sup>cd</sup>			

<sup>†</sup> From DWBA.

<sup>‡</sup> Enhancement factor  $\varepsilon$  defined by  $d\sigma/d\Omega(\text{exp})=2 \text{ epsilon } N d\sigma/d\Omega(J_1, J_2, J)(\text{DWBA})$  with  $N=22$ .  $d\sigma/d\Omega(J_1, J_2, J)(\text{DWBA})$  is calculated for  $J_1, J_2$  as indicated and  $J=L$ . Uncertainty of relative cross sections 3% to 4% while absolute cross sections have an uncertainty of 10%.

<sup>#</sup> L=4 measured by 1972Mo35.

<sup>@</sup> L=3 measured by 1972Mo35 for level seen at 2530 keV.

& Configuration= $(\nu d_{5/2})_0^4$  to configuration= $(\nu d_{5/2})_1^2$ .

<sup>a</sup> Configuration= $((\nu p_{3/2})_0^4(\nu d_{5/2})_0^4)0$  to configuration= $((\nu p_{3/2})_{3/2}^3(\nu d_{5/2})_{5/2}^3)J$ .

<sup>b</sup> Configuration= $((\nu f_{5/2})_0^2(\nu d_{5/2})_0^6)0$  to configuration= $((\nu f_{5/2})_{5/2}^1(\nu d_{5/2})_{5/2}^5)J$ .

<sup>c</sup> Configuration= $(\nu g_{9/2})_0^{10}$  to configuration= $(\nu g_{9/2})_1^8$ .

<sup>d</sup> Configuration= $((\nu g_{9/2})_0^{10}(\nu d_{5/2})_0^4)0$  to configuration= $((\nu g_{9/2})_{9/2}^9(\nu d_{5/2})_{5/2}^3)J$ .