

$^{94}\text{Mo}(\text{p,t}), (\text{pol p,t})$  1973La04,1971Mo32

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 113, 2187 (2012)	15-Sep-2012

Others: 1987Na20, 1971Ta16, 1982Ao01.

(pol p,t):  $\sigma(\theta)$ ,  $A(\theta)$ ; 1st and 2nd order DWBA analyses. 1982Ao01:  $E(\text{p})=22$  MeV,  $\theta(\text{c.m.})=5^\circ-70^\circ$ . g.s. only. 1987Na20:

$E(\text{p})=52.2$  MeV,  $\theta(\text{c.m.})\approx 5^\circ-70^\circ$ . 1509 level only. Analysis included inelastic + sequential transfer 2-step processes.

(p,t):  $\sigma(\theta)$ ; DWBA analysis. 1973La04:  $E(\text{p})=31$  MeV, FWHM=20 keV,  $\theta(\text{c.m.})\approx 5^\circ-65^\circ$ . 1971Mo32:  $E(\text{p})=40$  MeV, FWHM=90 keV,  $\theta(\text{c.m.})\approx 12^\circ-47^\circ$ . 1971Ta16:  $E(\text{p})=52$  MeV, FWHM=80-100 keV,  $\theta(\text{c.m.})\approx 7^\circ-57^\circ$ . Investigation of three  $0^+$  states.

See 1973La04 for "enhancement factor" (which provides comparison of measured and predicted transition intensities) and suggested configuration for many states observed.

 $^{92}\text{Mo}$  Levels

<u>E(level)<sup>†</sup></u>	<u>L<sup>‡</sup></u>	<u>E(level)<sup>†</sup></u>	<u>L<sup>‡</sup></u>	<u>E(level)<sup>†</sup></u>	<u>L<sup>‡</sup></u>	<u>E(level)<sup>†</sup></u>	<u>L<sup>‡</sup></u>
0.0	0	3090 5	#	4300 5	2	5320 25	3
1505 5	2	3535 5	2	4485 5	2	5620 25	3
2275 5	4	3835 5	0	4920 25	3	5830 25	3
2515 5	0	3915 5	2	5090 25	4	5920 25	5
2845 5	3	4140 5	4	5150 5	0	6100 25	(2,4)

<sup>†</sup> From 1973La04 ( $\Delta E=5$  keV) or 1971Mo32 ( $\Delta E=25$  keV). All levels observed by 1973La04, except the 5150-keV level, are confirmed by 1971Mo32.

<sup>‡</sup> From two nucleon transfer DWBA analysis of  $\sigma(\theta)$  by 1973La04 and 1971Mo32.

# 1973La04 make no assignment. 1971Mo32 tentatively assigned  $L=3$ . In conflict with adopted  $J^\pi=2^+$  for 3091 level.