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**$^{98}\text{Mo}(\text{p},\text{p}),(\text{p},\text{p}')$  IAR    1970Ke03**

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

E=6 MeV to 8 MeV. Enriched target. Si(Li) detector, FWHM=25 keV.  $\theta=115^\circ$  to  $165^\circ$ . Observed transitions to  $^{98}\text{Mo}$  g.s., 736 0+, and 787 2+.

Other IAR measurements: (p,p) [1966Mo06](#), ( $^3\text{He},\text{d}$ ) [1970Mc19](#).

**$^{99}\text{Tc}$  Levels**

L,J for the outgoing proton quoted under comments was deduced from theoretical expressions.

If the S(p)+6081 resonance is the analog to  $^{99}\text{Mo}$  g.s., the higher IAR's are  $\approx$ 75 keV too high. The same shift appears in the data of [1966Mo06](#). No explanation could be given for this effect.

E(level) <sup>†</sup>	J <sup>π</sup>	T <sub>1/2</sub> <sup>‡</sup>	Comments
(0.0)	9/2 <sup>+</sup>		
S(p)+6081	66 keV 6	s1/2.	
S(p)+6263	36 keV 3	d5/2.	
S(p)+6517	41 keV 4	d3/2.	
S(p)+6696	45 keV 3	d3/2.	
S(p)+7078	53 keV 4	s1/2.	Probably L=0+2 doublet ( <a href="#">1966Mo06</a> ).

<sup>†</sup> E(res) in c.m. system.

<sup>‡</sup> Total  $\Gamma$  (average of transitions to 736 and 787 final states if both are available). See [1970Ke03](#) for  $\Gamma(\text{p})$ .