

$^{96}\text{Mo}(\text{p},\text{p}')\text{ IAR}$ **1973Ke01,1966Mo06**

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

 ^{97}Tc Levels

1973Ke01: $^{96}\text{Mo}(\text{p},\text{p}')\text{IAR}$: $E(\text{p})=5.2\text{-}8.0\text{ MeV}$; measured $\sigma(E,\theta)$ $\theta=75^\circ$ to 170° ; resolution 25 keV.

1966Mo06: $^{96}\text{Mo}(\text{p},\text{p})\text{IAR}$: $E(\text{p})=4\text{-}9\text{ MeV}$; measured $\sigma(E,\theta)$; resolution 40-70 keV at 5 MeV.

E(level) [†]	L [‡]	S [‡]	Comments
S(p)+5380	2	0.25	$\Gamma=33\text{ keV}$, $\Gamma(\text{p})=2.5\text{ keV}$ from (p,p) (1966Mo06); analog to ^{97}Mo g.s..
S(p)+6070	0	0.68	$\Gamma=68\text{ keV}$, $\Gamma(\text{p})=31\text{ keV}$ from (p,p) (1966Mo06); analog to ^{97}Mo $1/2^+$ 679.59-keV level.
S(p)+6180	2	0.27	$\Gamma=33\text{ keV}$, $\Gamma(\text{p})=5\text{ keV}$; analog to several ^{97}Mo L=2 levels at 720 to 753 keV.
S(p)+6330			
S(p)+6470 [‡]	(0)		From (p,p) (1966Mo06); analog to ^{97}Mo $1/2^+$ 888.00 level.
S(p)+6710	2	0.22	$\Gamma=57\text{ keV}$, $\Gamma(\text{p})=10\text{ keV}$ from (p,p) (1966Mo06); analog to several ^{97}Mo L=2 levels at 1265 to 1300 keV.
S(p)+6950			
S(p)+7030 [‡]	(3)	0.03	$\Gamma=(10\text{ keV})$, $\Gamma(\text{p})=(0.7\text{ keV})$ from (p,p) (1966Mo06); analog to ^{97}Mo L=3 level at 1556.6 keV.
S(p)+7170 [‡]	(0)		Possible analog to ^{97}Mo ($1/2^+$) 1700.7-keV level.
S(p)+7320 [‡]	(0)		Possible analog to ^{97}Mo ($1/2^+$) 1848-keV level.
S(p)+7440 [‡]	(0)		Analog to ^{97}Mo $1/2^+$ 2033.7 level.
S(p)+7560	2	0.16	$\Gamma=35\text{ keV}$, $\Gamma(\text{p})=7\text{ keV}$ from (p,p) (1966Mo06); analog to several ^{97}Mo L=2 levels at 2100 keV level.

[†] In lab coordinate system. From **1973Ke01**, unless otherwise noted.

[‡] From **1966Mo06**.