

$^{96}\text{Mo}(\text{n},\gamma)$ E=res: av 1977Ri04

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

 ^{97}Mo Levels

E(res)=24.3 keV; beam spread =2 keV; measured $\sigma(E,\theta)$, $E_\gamma > 4.8$ MeV. Resolution: 0.1% at 7.5 MeV. Compared $\sigma(\text{exp.})$ with σ from statistical, valence and giant dipole extrapolation models.

E(level) [†]	J^π [‡]	Comments
0.0	5/2 ⁺	
480	3/2 ⁺	
680	1/2 ⁺	
720	3/2 ⁺	
888	1/2 ⁺	
1095	3/2 ⁺	
1265	3/2 ⁺ , 5/2 ⁺	
1282	3/2 ⁺ , 5/2 ⁺	
1517	3/2 ⁺ , 5/2 ⁺	
1550	1/2 ⁺	
1726	3/2, 5/2 ⁺	
1847		
1960	3/2 ⁺ , 5/2 ⁺	
2032	1/2 ⁺	
6844 2		E(level): S(n) + E(res): av of capturing resonances. J^π : s- and p-wave capture.

[†] Deduced from E_γ of primary γ 's.

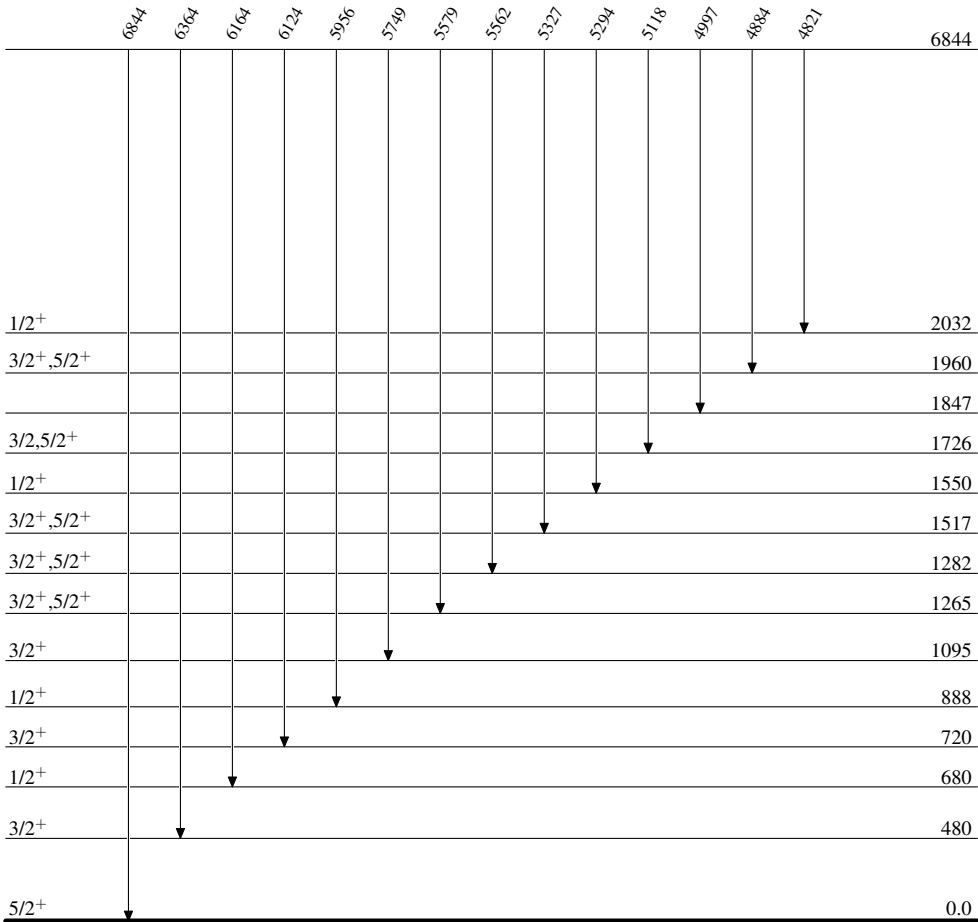
[‡] From Adopted Levels. All strong primary gammas assumed to be either E1 or M1, therefore, all levels fed in this experiment have $J=1/2, 3/2$ or $5/2$.

 $\gamma(^{97}\text{Mo})$

E_γ	$E_i(\text{level})$	E_f	J_f^π	E_γ	$E_i(\text{level})$	E_f	J_f^π	E_γ	$E_i(\text{level})$	E_f	J_f^π
4821	6844	2032	1/2 ⁺	5327	6844	1517	3/2 ⁺ , 5/2 ⁺	6124	6844	720	3/2 ⁺
4884	6844	1960	3/2 ⁺ , 5/2 ⁺	5562	6844	1282	3/2 ⁺ , 5/2 ⁺	6164	6844	680	1/2 ⁺
4997	6844	1847		5579	6844	1265	3/2 ⁺ , 5/2 ⁺	6364	6844	480	3/2 ⁺
5118	6844	1726	3/2, 5/2 ⁺	5749	6844	1095	3/2 ⁺	6844	6844	0.0	5/2 ⁺
5294	6844	1550	1/2 ⁺	5956	6844	888	1/2 ⁺				

⁹⁶Mo(n, γ) E=res: av 1977Ri04

Level Scheme



⁹⁷Mo₅₅