

$^{100}\text{Mo}(t,p\gamma)$ 1987Es01,1989Es01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	D. De Frenne	NDS 110, 1745 (2009)	31-Dec-2008

Measured (t,p $\gamma\gamma$).

1987Es01,1989Es01: E=16 MeV. Measured: E γ , I γ , ce, p $\gamma\gamma$, E(p) coin, deduced: ^{102}Mo levels, ρ^2 , B(E0)/B(E2). Enriched targets.

 ^{102}Mo Levels

E(level)	J π^\dagger	E(level)	J π^\dagger	E(level)	J π^\dagger	E(level)	J π^\dagger
0.0	0 ⁺	743.2	4 ⁺	1327.4	6 ⁺	2417.6?	(10 ⁺)
296.15	2 ⁺	847.5	2 ⁺	1397.8	(4 ⁺)	2480.7	(3 ⁺)
696.8	0 ⁺	1244.8	(3 ⁺)	2018.1	8 ⁺		

\dagger From Adopted Levels.

 $\gamma(^{102}\text{Mo})$

ΔE : Uncertainties estimated by evaluator following suggestions of the authors.

E γ	I γ ‡	E $_i$ (level)	J $^\pi_i$	E $_f$	J $^\pi_f$	Mult.	I $_{(\gamma+ce)}$	Comments
296.1 1	100 5	296.15	2 ⁺	0.0	0 ⁺			
398.0 2	2.0 3	1244.8	(3 ⁺)	847.5	2 ⁺			
399.3# 2	2.8 3	2417.6?	(10 ⁺)	2018.1	8 ⁺			
400.9 2	5.4 3	696.8	0 ⁺	296.15	2 ⁺			
447.1 1	47 3	743.2	4 ⁺	296.15	2 ⁺			
550.4# 2	3.8 2	1397.8	(4 ⁺)	847.5	2 ⁺			
551.7 2	9.2 5	847.5	2 ⁺	296.15	2 ⁺			
584.2 1	17.6 9	1327.4	6 ⁺	743.2	4 ⁺			
654.6 1	4.0 3	1397.8	(4 ⁺)	743.2	4 ⁺			
690.9 1	3.2 2	2018.1	8 ⁺	1327.4	6 ⁺			
696.6		696.8	0 ⁺	0.0	0 ⁺	E0	0.023	$\rho^2=0.12$ 5 (1987Es01).
847.2 2	4.3 3	847.5	2 ⁺	0.0	0 ⁺			
948.7 1	6.5 4	1244.8	(3 ⁺)	296.15	2 ⁺			
1633.2 1	0.32 6	2480.7	(3 ⁺)	847.5	2 ⁺			

\dagger Uncertainties estimated by evaluator following suggestions of the authors.

\ddagger Taken from 1989Es01.

Placement of transition in the level scheme is uncertain.

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Level Scheme

Intensities: Relative I_γ

Legend

- $I_\gamma < 2\% \times I_\gamma^{\max}$
- $I_\gamma < 10\% \times I_\gamma^{\max}$
- $I_\gamma > 10\% \times I_\gamma^{\max}$
- - - - -→ γ Decay (Uncertain)
- Coincidence

