

^{39}P β^- decay (0.28 s) [1998WiZV](#), [1988Mu08](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 149, 1 (2018)	1-Jan-2018

Parent: ^{39}P : $E=0$; $J^\pi=(1/2^+)$; $T_{1/2}=0.28$ s 4; $Q(\beta^-)=1.039\times 10^4$ 12; $\% \beta^-$ decay=100.0

^{39}P - $J^\pi, T_{1/2}$: From Adopted Levels of ^{39}P .

^{39}P - $Q(\beta^-)$: From [2017Wa10](#).

[1998WiZV](#): Source of ^{39}P was produced from fragmentation of ^{48}Ca . Measured E_γ , $T_{1/2}$.

[1988Mu08](#): Source of ^{39}P was produced via $^{181}\text{Ta}(^{86}\text{Kr}, X)$ at $E=45$ MeV/nucleon. Measured $T_{1/2}$, neutron emission probabilities.

 ^{39}S Levels

E(level) [†]	J^π [‡]	Comments
0	(7/2) ⁻	
59.0	(5/2) ⁻	Additional information 1 . E(level): rounded value from Adopted Levels.
398.5 5	(3/2) ⁻	

[†] From a least-squares fit to γ -ray energies.

[‡] From Adopted Levels.

 $\gamma(^{39}\text{S})$

E_γ [†]	$E_i(\text{level})$	J_i^π	E_f	J_f^π
339.8 [‡] 7	398.5	(3/2) ⁻	59.0	(5/2) ⁻
398.2 [‡] 7	398.5	(3/2) ⁻	0	(7/2) ⁻
^x 1126.2 7				
^x 1524.6 7				

[†] From [1998WiZV](#).

[‡] Not placed in [1998WiZV](#); placed by the evaluator based on the level scheme in Adopted Levels, Gammas.

^x γ ray not placed in level scheme.

${}^{39}\text{P} \beta^{-}$ decay (0.28 s) 1998WiZV,1988Mu08Decay Scheme