
 ^{39}Ar β^- decay (268 y) [1965St09,1950Br66](#)

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

Parent: ^{39}Ar : $E=0$; $J^\pi=7/2^-$; $T_{1/2}=268$ y 8; $Q(\beta^-)=565$ 5; $\%\beta^-$ decay=100.0

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

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

[1965St09](#): measured parent $T_{1/2}$.

[1950Br66](#): measured $E\beta$, end-point energy=565 keV 5.

[1952Ze01](#): measured parent $T_{1/2}$.

[2002Go28](#): measured $E\beta$.

[2007Be13](#): measured specific activity in natural argon.

[Additional information 1](#).

 ^{39}K Levels

E(level)	J^π	Comments
0	$3/2^+$	J^π : from Adopted Levels.

 β^- radiations

E(decay)	E(level)	$I\beta^-^\dagger$	Log ft	Comments
565 5	0	100	10.10^{1u} 2	av $E\beta=218.8$ 21 E(decay): from end-point energy=565 5 (1950Br66). $I\beta^-$: 1950Br66 measured less than 0.1% branching for $E\gamma>300$ keV, indicating all β decays feeding ground state.

† Absolute intensity per 100 decays.