

^{50}Ar β^- -n decay (85 ms) [2003We09](#)

Type	History		Literature Cutoff Date
	Author	Citation	
Full Evaluation	Balraj Singh	ENSDF	28-Feb-2011

Parent: ^{50}Ar : $E=0.0$; $J^\pi=0^+$; $T_{1/2}=85$ ms 30; $Q(\beta^-n)=7750$ SY; $\% \beta^-n$ decay=35 10

^{50}Ar - $Q(\beta^-n)$: 7750 700 (syst,2003Au03).

^{50}Ar - $\% \beta^-n$ decay: $\% \beta^-n=35$ 10 (2003We09).

U(p,F) $E=1.4$ GeV. Isotopes extracted, mass separated, and implanted into an aluminized mylar tape; implantation point in center of cylindrical 4π neutron long counter consisting of 12 parallel-coupled ^3He pc's embedded in a paraffin moderator. β^- 's detected by a 1.5-mm plastic detector. Measured $\beta^-(t)$, $n(t)$, and $\beta^-n(t)$. Analysis of time spectra restricted to data from a doubly charged ^{50}Ar beam; beam gate set to 200 ms after every proton pulse and a 20 ms delay; 3 h measurement (1320 proton pulses on target).

 ^{49}K Levels

<u>E(level)</u>	<u>J^π</u>	<u>Comments</u>
0.0	(1/2 ⁺ ,3/2 ⁺)	J^π : from Adopted Levels.