

${}^{63}\text{V}$ β^- -n decay (17 ms) 2003So02

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Alan L. Nichols, Balraj Singh, Jagdish K. Tuli		NDS 113, 973 (2012)	15-Apr-2012

Parent: ${}^{63}\text{V}$: $E=0.0$; $J^\pi=(7/2^-)$; $T_{1/2}=17$ ms 3; $Q(\beta^-n)=11217$ SY; $\% \beta^-n \text{ decay} \approx 35.0$

${}^{63}\text{V}$ - $T_{1/2}$: from β decay curve (2003So02).

${}^{63}\text{V}$ - $Q(\beta^-n)$: 11217 605 (syst, 2011AuZZ). 2003Au03 list 11430 690 from syst.

${}^{63}\text{V}$ - $\% \beta^-n$ decay: $\% \beta^-n \approx 35$ (2003So02).

2003So02 (also 2002MaZN thesis, 2005Ga01): ${}^{63}\text{V}$ produced in ${}^{58}\text{Ni}({}^{76}\text{Ge}, X)$, $E=61.8$ MeV/nucleon at GANIL facility using LISE3 doubly achromatic spectrometer. Measured β , γ , isotopic half-life from β decay timing.

1997Be70: ${}^{63}\text{V}$ first identified in ${}^9\text{Be}({}^{238}\text{U}, F)$, $E=750$ MeV/nucleon at GSI facility, identification by energy loss and time-of-flight.

The decay scheme is poorly known.

 ${}^{62}\text{Cr}$ Levels

E(level)	J^π
0	0^+
446 1	(2^+)

 $\gamma({}^{62}\text{Cr})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
446 1	446	(2^+)	0	0^+

 ${}^{63}\text{V}$ β^- -n decay (17 ms) 2003So02Decay Scheme