

^{62}V β^- decay (33.6 ms) [2003So02,1999So20](#)

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: ^{62}V : $E=0$; $T_{1/2}=33.6$ ms 23; $Q(\beta^-)=15767$ SY; $\%\beta^-$ decay=100.0

^{62}V - $T_{1/2}$: ADOPTED value.

^{62}V - $Q(\beta^-)$: 15767 523 (syst,[2011AuZZ](#)). [2003Au03](#) give 15990 610 from syst.

^{62}V - $\%\beta^-$ decay: $\%\beta^-$ is expected to be 100.

[1997Be70](#): ^{62}V first identified in $^9\text{Be}(^{238}\text{U},\text{F})$, $E=750$ MeV/nucleon, U beam 2×10^7 ion/s at GSI facility, identification by energy loss and time-of-flight.

[1999So20](#) (also [1999Le67](#)): ^{62}V produced in $^{58}\text{Ni}(^{86}\text{Kr},\text{X})$, $E=60.4$ MeV/nucleon at GANIL facility using LISE3 doubly achromatic spectrometer. Measured isotopic half-life from β decay timing.

[2003So02](#) (also [2002MaZN](#) thesis, [2005Ga01](#)): ^{62}V produced in $^{58}\text{Ni}(^{76}\text{Ge},\text{X})$, $E=61.8$ MeV/nucleon at GANIL facility using LISE3 doubly achromatic spectrometer. Measured β , γ , isotopic half-life from β decay timing.

The decay scheme is poorly known.

 ^{62}Cr Levels

<u>E(level)</u>	<u>J^π</u>
0	0^+
446 1	(2^+)

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

<u>E_γ</u>	<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>
$^{x154}\text{†} 2$				
$^{x349}\text{†} 1$				
446 1	446	(2^+)	0	0^+

† This γ listed by [2002MaZN](#) from ^{62}V decay. 155-355 cascade is also known in ^{61}Mn . Possible that this γ is from β^- -n decay of ^{62}Cr .

x γ ray not placed in level scheme.

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Decay Scheme

