

$^{62}\text{V } \beta^- \text{ decay (33.5 ms)}$ [2003So02](#),[1999So20](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, Huang Xiaolong, and Wang Xianghan		NDS 204,1 (2025)	30-Jun-2023

Parent: ^{62}V : E=0; $T_{1/2}=33.5$ ms 20; $Q(\beta^-)=1564\times 10^1$ 26; % β^- decay=100

$^{62}\text{V-T}_{1/2}$: From ^{62}V Adopted Levels.

$^{62}\text{V-Q}(\beta^-)$: From [2021Wa16](#).

$^{62}\text{V-}\% \beta^-$ decay: % β^- 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

E(level)	$J^\pi \dagger$	$T_{1/2} \dagger$
0	0^+	200 ms 12
446 I	2^+	93 ps 9

[†] From the Adopted Levels.

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

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
$^{x}154 \dagger$ 2				
$^{x}349 \dagger$ 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.

^{62}V β^- decay (33.5 ms) 2003So02,1999So20Decay Scheme