

^{60}V IT decay (0.32 μs) [1999DaZQ](#),[2010Da06](#),[2012Ka06](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 114, 1849 (2013)	31-Dec-2012

Parent: ^{60}V : E=202.1+x; $J^\pi=(4^+)$; $T_{1/2}=0.32 \mu\text{s}$ 9; %IT decay=?

[2012Ka36](#): In-flight fission of $^{238}\text{U}^{86}$ beam 345 MeV/A. Fission fragments analyzed and identified in BigRIPS separator. Delayed γ measured using three clover Ge detector.

[2010Da06](#): Fragments from $^{86}\text{Kr}^{34}$ on Ni target, 60.5 MeV/A detected in three-element Si detector telescope. γ measured in four high purity Ge detectors. Results earlier reported in [1999DaZQ](#).

 ^{60}V Levels

E(level)	$J^\pi^\dagger$	$T_{1/2}$	Comments
0+x	(3 ⁺)		
103.2+x	(2 ⁺)	13 ns 3	$T_{1/2}$: From 2010Da06 .
202.1+x	(4 ⁺)	0.32 μs 9	$T_{1/2}$: From 2010Da06 . Other: 0.229 +25-23 (2012Ka36). J^π : (4 ⁺) suggested by 2010Da06 , 1999DaZQ based on proposed mult.

[†] from Adopted Levels.

 $\gamma(^{60}\text{V})$

$E_\gamma^\dagger$	$I_\gamma^\ddagger$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	$\alpha^\#$	Comments
98.9 @ 5	100 7	202.1+x	(4 ⁺)	103.2+x	(2 ⁺)	(E2)	0.395 10	$\alpha(\text{K})=0.356$ 9; $\alpha(\text{L})=0.0350$ 9; $\alpha(\text{M})=0.00453$ 12; $\alpha(\text{N}+..)=0.000208$ 5 $\alpha(\text{N})=0.000208$ 5 Mult.: From 2010Da06 , 1999DaZQ based on level $T_{1/2}$ and RUL. E_γ : 99.7 (2012Ka06).
103.2 @ 5	60 8	103.2+x	(2 ⁺)	0+x	(3 ⁺)	(E2+M1)	0.18 16	$\alpha(\text{K})=0.16$ 15; $\alpha(\text{L})=0.016$ 14; $\alpha(\text{M})=0.0020$ 18; $\alpha(\text{N}+..)=9.\text{E}-5$ 9 $\alpha(\text{N})=9.\text{E}-5$ 9 E_γ : 104.0 (2012Ka36).

[†] From [1999DaZQ](#), [2010Da06](#).

[‡] From [2012Ka06](#). Intensity within time window 0.2 μs and 1 μs .

[#] Total theoretical internal conversion coefficients, calculated using the BrIcc code ([2008Ki07](#)) with Frozen orbital approximation based on γ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

@ Placement of transition in the level scheme is uncertain.

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