

^{69}Ge IT decay (5.1 μs) [1964Br27](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	C. D. Nesaraja	NDS 115, 1 (2014)	31-Jul-2013

Parent: ^{69}Ge : E=86.765 14; $J^\pi=1/2^-$; $T_{1/2}=5.1 \mu\text{s}$ 2; %IT decay=100.0

[1969Iv02](#): Isomer excited by 24 MeV α particles. γ 's detected with a NaI(Tl) and EMI9067B photomultiplier tube. Measured halflife with 15-20 % uncertainty and E_γ with 5 % uncertainty.

[1964Br27](#): $E_\gamma=22.5, 26 \text{ MeV}$; isomer produced by $^{70}\text{Ge}(\gamma, n)$ reaction; measured E_γ , $T_{1/2}$ by delayed coincidences, threshold.

 ^{69}Ge Levels

E(level) [†]	J^π [‡]	$T_{1/2}$	Comments
0	$5/2^-$		
85 3	$1/2^-$	5.1 μs 2	$T_{1/2}$: From delayed coincidence data of 1964Br27 of 1964Br27 . Other: 6 μs (1969Iv02).

[†] From measured E_γ .

[‡] From Adopted Levels.

 $\gamma(^{69}\text{Ge})$

I(γ +ce) normalization: %IT=100.

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [†]	α [#]	$I_{(\gamma+ce)}$ [‡]	Comments
85 3	85	$1/2^-$	0	$5/2^-$	E2	1.267	100	Data from 1964Br27 .

[†] From Adopted Gammas.

[‡] Absolute intensity per 100 decays.

[#] 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.

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Decay Scheme

%IT=100.0

