

$^{69}\text{Zn } \beta^-$ decay (13.756 h) [1969Zo01,1970Ra08](#)

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

Parent: ^{69}Zn : $E=438.636$ 18; $J^\pi=9/2^+$; $T_{1/2}=13.756$ h 2; $Q(\beta^-)=910.2$ 15; $\% \beta^-$ decay=0.033 3

$^{69}\text{Zn}-\% \beta^-$ decay: from $I_\gamma(438.6)$ in IT decay and $I_\gamma(574.3)$ in β^- decay ([1970Ra08](#)).

[1970Ra08](#): Measured E_γ , I_γ with GeLi detectors (FWHM=2.5 keV at 1333 keV).

[1969Zo01](#): Measured E_γ , I_γ and $T_{1/2}$ with GeLi (FWHM=2.8 keV at 1332 keV) and NaI detectors (FWHM=7.0 keV at 1332 keV).

Other: [1969Zo05](#).

 ^{69}Ga Levels

<u>E(level)[†]</u>	<u>J^π[‡]</u>
0	$3/2^-$
573.9 2	$5/2^-$

[†] From measured E_γ .

[‡] From Adopted Levels.

 β^- radiations

<u>E(decay)</u>	<u>E(level)</u>	<u>$I_\beta^{-\dagger}$</u>	<u>Log ft</u>	<u>Comments</u>
(774.9 15)	573.9	100	9.25 ^{1u} 4	av $E_\beta=$ 290.3 12

[†] For absolute intensity per 100 decays, multiply by 0.00033 3.

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

I_γ normalization: zero g.s. feeding assumed on the basis of large spin change.

<u>E_γ[†]</u>	<u>I_γ[#]</u>	<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Mult.[‡]</u>	<u>δ[‡]</u>
573.9 2	100	573.9	$5/2^-$	0	$3/2^-$	M1+E2	-0.06 1

[†] From [1969Zo01](#).

[‡] From adopted gammas.

[#] For absolute intensity per 100 decays, multiply by 0.00033 3.

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Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays

