

^{86}Ga β^- n decay (43 ms) 2013Mi19

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen		NDS 116, 1 (2014)	31-Dec-2013

Parent: ^{86}Ga : E=0; $T_{1/2}=43$ ms +21–15; $Q(\beta^-n)=10600$ SY; % β^- n decay=60 10

$^{86}\text{Ga-T}_{1/2}$: Measured by [2013Mi19](#) from decay curve for γ rays.

$^{86}\text{Ga-Q}(\beta^-n)$: 10600 700 (syst,[2012Wa38](#)).

^{86}Ga -% β^- n decay: % β^- =100, % β^- n=60 10 and % β^- 2n=20 10 for ^{86}Ga decay ([2013Mi19](#)).

[2013Mi19](#): ^{86}Ga produced in U(p,F) reaction at 50 MeV using ISOL- HRIBF facility at ORNL. Ions of ^{86}Ga were extracted using resonant ionization laser ion source (RILIS). ^{86}Ga beam was transmitted to Radioactive Ion Beam Spectroscopy Station (LeRIBSS). Measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $\beta\gamma$ -coin, $n\gamma$ -coin, P(n), P(2n).

 ^{85}Ge Levels

E(level)	J^π †	$T_{1/2}$	Comments
0	(3/2 ⁺ ,5/2 ⁺)	503 ms 18	$T_{1/2}$: from Adopted Levels.
107	(5/2 ⁺ ,3/2 ⁺)		
250			
472	(3/2 ⁺)		

† From Adopted Levels.

 $\gamma(^{85}\text{Ge})$

$I\gamma$ normalization: Absolute γ -intensities are given in [2013Mi19](#).

E_γ	I_γ †	E_i (level)	J_i^π	E_f	J_f^π
107	19	107	(5/2 ⁺ ,3/2 ⁺)	0	(3/2 ⁺ ,5/2 ⁺)
250	7	250		0	(3/2 ⁺ ,5/2 ⁺)
365	4	472	(3/2 ⁺)	107	(5/2 ⁺ ,3/2 ⁺)

† Absolute intensity per 100 decays.

^{86}Ga β^- -n decay (43 ms) 2013Mi19Decay Scheme