

$^{86}\text{Ga}$   $\beta^-$  decay (43 ms) 2013Mi19

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Alexandru Negret, Balraj Singh		NDS 124, 1 (2015)	30-Nov-2014

Parent:  $^{86}\text{Ga}$ :  $E=0$ ;  $T_{1/2}=43$  ms  $+21-15$ ;  $Q(\beta^-)=15300$  SY;  $\% \beta^-$  decay=100.0

$^{86}\text{Ga}$ - $T_{1/2}$ : Measured by 2013Mi19 from decay curve for  $\gamma$  rays.

$^{86}\text{Ga}$ - $Q(\beta^-)$ : 15300 760 (syst,2012Wa38).

$^{86}\text{Ga}$ - $\% \beta^-$  decay:  $\% \beta^- = 100$ ,  $\% \beta^- n = 60$  10 and  $\% \beta^- 2n = 20$  10 (2013Mi19).

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

 $^{86}\text{Ge}$  Levels

E(level)	$J^\pi$	Comments
0	$0^+$	
527	$(2^+)$	$J^\pi$ : systematics of even-even Ge nuclei.

 $\gamma(^{86}\text{Ge})$ 

$I\gamma$  normalization: Absolute  $\gamma$ -intensity is given in 2013Mi19.

$E_\gamma$	$I_\gamma^\dagger$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
527	7	527	$(2^+)$	0	$0^+$

$^\dagger$  Absolute intensity per 100 decays.

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## Decay Scheme

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