^{86}Ge β^-n decay (226 ms)   2013Mi19

History

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

Parent: ^{86}Ge: E=0; J^π=0$^+$; $T_{1/2}$=226 ms *21*; Q(β^-n)=5360 *SY*; %β^-n decay=45 *15*

^{86}Ge-$T_{1/2}$: Measured by 2013Ma22 from β-gated time distribution of γ rays in ^{86}As and ^{85}As.

^{86}Ge-$T_{1/2}$: From measurement by 2013Ma22.

^{86}Ge-Q(β^-n): 5360 *300* (syst,2012Wa38).

^{86}Ge-%β^-n decay: %β^-n=45 *15* (estimated value in measurements by 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 Eγ, Iγ, $\gamma\gamma$-coin, $\beta\gamma$-coin, nγ-coin, %β^-n.

^{85}As Levels

E(level)	J^π	$T_{1/2}$	Comments
0	(3/2$^-$)	2.021 s *12*	The g.s. of ^{85}As is expected to be populated in delayed neutron decay of ^{86}Ge. J^π,$T_{1/2}$: from Adopted Levels.