

^{66}Ni β^- decay [1956Jo20](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 111, 1093 (2010)	3-Mar-2009

Parent: ^{66}Ni : $E=0$; $J^\pi=0^+$; $T_{1/2}=54.6$ h 3; $Q(\beta^-)=251.9$ 16; $\%\beta^-$ decay=100.0

^{66}Ni - $Q(\beta^-)$: From [2009AuZZ](#), [2003Au03](#).

[Additional information 1.](#)

[1956Jo20](#): ^{66}Ni produced by p-induced fission of natural U at $E(p)=340$ MeV. Measured γ and β spectra, $T_{1/2}$; scintillators, Geiger-Muller counter; observed no γ 's due to ^{66}Ni decay.

[1956Kj07](#): ^{66}Ni produced by p-induced fission and spallation of natural U at $E(p)=170$ MeV. Measured β spectra, $T_{1/2}$.

 ^{66}Cu Levels

E(level)	J^π [†]	$T_{1/2}$ [†]
0	1^+	5.120 min 14

[†] From Adopted Levels.

 β^- radiations

$I\beta$ normalization: Nonobservation of ^{66}Cu γ rays indicates a g.s. β^- branching $\geq 99\%$ ([1956Jo20](#)).

E(decay)	E(level)	$I\beta^-$ [†]	Log ft	Comments
0.20×10^3 3	0	100	4.3	av $E\beta=73.4$ 6 E(decay): from 1956Jo20 .

[†] Absolute intensity per 100 decays.