

$^{66}\text{Mn} \beta^-$ decay [1999Ha05](#)

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

Parent: ^{66}Mn : $E=0.0$; $T_{1/2}=65 \text{ ms } 2$; $Q(\beta^-)=1.33 \times 10^4 \text{ SY}$; $\% \beta^-$ decay=?

^{66}Mn produced at CERN by 1-GeV proton-induced spallation of an uranium target at the ISOLDE facility. Measured β^- delayed neutrons and γ rays in singles and coincidence experiments.

 ^{66}Fe Levels

E(level)	J^π [†]	$T_{1/2}$	Comments
0.0	0^+	440 ms 60	$T_{1/2}$: From 1999Le67 , 1998Am04 , 1999So20 .
573	(2^+)		
1413.5	(4^+)		

[†] From Adopted Levels.

 $\gamma(^{66}\text{Fe})$

E_γ	$E_i(\text{level})$	J^π_i	E_f	J^π_f
573	573	(2^+)	0.0	0^+
^x 769.9				
840.5	1413.5	(4^+)	573	(2^+)

^x γ ray not placed in level scheme.

 $^{66}\text{Mn} \beta^-$ decay [1999Ha05](#)Decay Scheme