

^{131}Cd β^- n decay (68 ms) [2000Ha55](#)

Type	History		Literature Cutoff Date
	Author	Citation	
Full Evaluation	Balraj Singh	ENSDF	31-May-2008

Parent: ^{131}Cd : $E=0.0$; $J^\pi=(7/2^-)$; $T_{1/2}=68$ ms 3; $Q(\beta^-n)=6550$ SY; $\% \beta^-n$ decay= 3.5 10

^{131}Cd -E: assumed as the ground state.

^{131}Cd - J^π : probable configuration= $\nu f_{7/2}$ ([2000Ha55](#)), syst. ([2003Au02](#)).

^{131}Cd - $T_{1/2}$: from timing of delayed neutrons ([2000Ha55](#),[2001Ha39](#)).

^{131}Cd - $Q(\beta^-n)$: 6550 300 (syst,[2003Au03](#)).

^{131}Cd - $\% \beta^-n$ decay: $\% \beta^-n=3.5$ 10 ([2000Ha55](#),[2001Ha39](#)).

[2000Ha55](#): ^{131}Cd isotope produced and identified in $^{235}\text{U}(p,F)$ reaction at 1 GeV proton energy. Mass-separation and LASER ionization was used to separate ^{131}Cd . Measured $T_{1/2}$ and $\% \beta^-n$.