

^{68}Ni β^- decay [1998Fr15](#)

<u>Type</u>	<u>Author</u>	<u>History</u> <u>Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	E. A. Mccutchan	NDS 113, 1735 (2012)	1-Mar-2012

Parent: ^{68}Ni : $E=0.0$; $J^\pi=0^+$; $T_{1/2}=29$ s 2; $Q(\beta^-)=2103$ 3; $\% \beta^-$ decay=100.0

[1998Fr15](#): $^{238}\text{U}(\text{p},\text{F})$, $E(\text{p})=30$ MeV. LISOL; resonant LASER ionization and electromagnetic mass separation. Measured E_γ and $T_{1/2}$ using two HPGe detectors.

[1988ScZH](#), [1988KoZT](#): $\text{W}(^{76}\text{Ge},\text{X})$, $E(^{76}\text{Ge})=11.5$ MeV/nucleon; UNILAC and online GSI mass separator. Measured E_γ , $E\beta$, $T_{1/2}$.

 ^{68}Cu Levels

The authors do not propose a decay scheme. The evaluator has placed the 84.2 γ from the known 84 level. The 758.3 γ has not been seen in any other dataset and is unplaced.

<u>E(level)</u>	<u>J^π[†]</u>	<u>$T_{1/2}$[†]</u>	<u>Comments</u>
0.0	1 ⁺	30.9 s 6	
84.6	2 ⁺	7.84 ns 8	E(level): Observation of a very weak 84 γ in 1998Fr15 .

[†] From the Adopted Levels.

 $\gamma(^{68}\text{Cu})$

<u>E_γ</u>	<u>$E_i(\text{level})$</u>	<u>J^π_i</u>	<u>E_f</u>	<u>J^π_f</u>
84.2 1	84.6	2 ⁺	0.0	1 ⁺
^x 758.3 1				

^x γ ray not placed in level scheme.

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Decay Scheme

