

^{26}F β^- -n decay (2.2 ms) [2013Le03](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia, Anagha Chakraborty		NDS 205,1 (2025)	31-May-2025

Parent: ^{26}F : E=643.4 I; $J^\pi=(4^+)$; $T_{1/2}=2.2$ ms I; $Q(\beta^- \text{n})=12.64 \times 10^3$ II; % β^- -n decay=12.8

^{26}F -E, J^π , $T_{1/2}$: from ^{26}F Adopted Levels in [2016Ba18](#).

^{26}F - $Q(\beta^- \text{n})$: from [2021Wa16](#): AME-2021.

^{26}F -% β^- -n decay: 65% 18 of 18% 11 β^- decay branch of the isomer ([2013Le03](#) – e-mail communication with A. Lepailleur (1st author of [2013Le03](#): dated Sept 10, 2015)). Note that no explanation or methodology for the extraction of this value is given in [2013Le03](#).

^{26}F was produced from fragmentation of a primary beam of ^{36}S , E=77.6 MeV/nucleon on a Be target (thickness=237 mg/cm²), separated by LISE spectrometer at GANIL, identified from energy loss in a stack of Si detectors and time-of-flight, and implanted in a 1 mm-thick double-sided Si stripped (DSSSD) detector surrounded by four clover HPGe detectors. Measured half-life of ^{26}F g.s. and isomer, β^- -n branch.

 ^{25}Ne Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	$1/2^+$	603 ms 8	E(level): assumed that the ground state of ^{25}Ne is populated in this decay. J^π , $T_{1/2}$: from Adopted Levels.