

$^{238}\text{U}(\text{p},\text{X}), ^{136}\text{Xe}(\text{p},\text{X})$ [2009Pe09](#), [2007Ha20](#), [1999Wa09](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. Lalkovski, F. G. Kondev		NDS 124, 157 (2015)	1-Aug-2014

[2009Pe09](#): Facility: Superconducting Cyclotron Laboratory at Michigan State University; Beam: ^{136}Xe at 120 MeV/ α , I=1.5 pA; Target: 1242 mg/cm² ^9Be ; Detectors: fragment separator, three plastic scintillator detectors, degraders, four silicon PIN detector, 40x40 pixel double-sided silicon strip detector, 10 mm Ge detector, neutron detector (NERO) comprising 16 ^3He and 44 B_3F proportional gas counters; Measured: Time-of-flight, energy loss, HI positions, mass-to-charge ratio, HI- β and HI- β -N(t) correlations; Deduced: β^- -n.

[2007Ha20](#): Facility: IGISOL at Jyvaskyla; Beam: P at E=25 MeV; Target: 10 mg/cm² of natural uranium; Detectors: JYFLTRAP Penning trap, consisting of radiofrequency cooler, two Penning traps, superconducting magnet, microchannel plate detector; Measured: Time-of-flight, mass excess; Mass excess: -65250.6 keV ([2007Ha20](#)) differs from the AME03 by 750 units which might be explained with a possible feeding of excited states in ^{112}Tc .

[1999Wa09](#): Facility: IGISOL at Jyvaskyla; Beam: E(p)=50 MeV, I=10 μA ; Target: ^{238}U ; Detectors: collection tape, Mainz 4π neutron counter consisting of 42 ^3He ionization chambers, plastic scintillator, 23% HPGE; Measured: β , n, γ , β -n(t); Deduced: β^- -n; Also, from the same authors: [1996Me09](#), [1990AyZX](#), [1990AyZY](#), [1990AyZZ](#), [1990JoZY](#), [1989TaZW](#).

Others: [2008Su19](#), [2000Lh02](#), [1990Ay02](#).

 ^{112}Tc Levels

E(level) [†]	J π [†]	T _{1/2}	Comments
0	(2 ⁺)	271 ms 15	$\% \beta^-$ -n=4 1 (2009Pe06), 1.5 2 (1999Wa09), and 2.6 5 (1996Me09). T _{1/2} : Weighted average of 290 ms 20 (2009Pe09) 280 ms 30 (1990Ay02), 290 ms 20 (1999Wa09) and 230 ms 20 (1996Me09).

[†] From the Adopted Levels.