Adopted Levels

History					
Туре	Author	Citation	Literature Cutoff Date		
Full Evaluation	Balraj Singh	ENSDF	31-Dec-2016		

 $Q(\beta^{-})=14100 SY; S(n)=2940 SY; S(p)=14200 CA; Q(\alpha)=-7560 CA 2012Wa38,1997Mo25$

Estimated $\Delta Q(\beta^{-})=400$, $\Delta S(n)=500$ (syst,2012Wa38).

 $Q(\beta^{-})$ and S(n) from 2012Wa38; S(p) and Q(α) from theory (1997Mo25).

 $S(2n)=5210\ 450,\ Q(\beta^{-}n)=11830\ 400\ (syst, 2012Wa38).\ S(2p)=31850\ (theory, 1997Mo25).$

- 2002Di12: ¹³⁵In nuclide produced in ²³⁸U(n,F) reaction, where neutrons were obtained from spallation of a tantalum target by 1.4 GeV protons at CERN/ISOLDE facility. The ¹³⁵In ions were identified by using isobaric selectivity of a resonance-ionization LASER ion-source. Measured $T_{1/2}$ and β -delayed neutrons.
- 2015Lo04: ¹³⁵In nuclide produced at RIBF-RIKEN facility in ⁹Be(²³⁸U,F) reaction at E=345 MeV/nucleon with an average intensity of 6×10^{10} ions/s. Identification of ¹³⁵In was made by determining atomic Z and mass-to-charge ratio A/Q, where Q=charge state of the ions. The selectivity of ions was based on magnetic rigidity, time-of-flight and energy loss. The separated nuclei were implanted at a rate of 50 ions/s in a stack of eight double-sided silicon-strip detector (WAS3ABi), surrounded by EURICA array of 84 HPGe detectors. Correlations were recorded between the implanted ions and β rays. The half-life of ¹³⁵In isotope was measured from the correlated ion- β decay curves and maximum likelihood analysis technique as described in 2014Xu07. Comparison of measured half-lives with FRDM+QRPA, KTUY+GT2 and DF3+CQRPA theoretical calculations. Additional information 1.

¹³⁵In Levels

E(level)	T _{1/2}	Comments	
0	101 ms 5	$\%\beta^{-}=100; \ \%\beta^{-}n>0; \ \%\beta^{-}2n=?$	
		Theoretical $T_{1/2}$ =69.8 ms, $\%\beta^{-}n$ =23.5, $\%\beta^{-}2n$ =64.3 (2003Mo09).	
		Theoretical $\beta \beta^{-}$ n=95 (2002Di12, QRPA calculations).	
		E(level): 101-ms activity assumed as belonging to the ground state of 135 In.	
		J^{π} : 9/2 ⁺ from systematics of Z=49 nuclides (1997Mo25,2012Au07).	
		$T_{1/2}$: weighted average of 103 ms 5 (2015Lo04 from (implanted ions) β correlated decay curve) and 92 ms	
		10 (2002Di12, from β -delayed neutron curve).	