Adopted Levels

		History	
Туре	Author	Citation	Literature Cutoff Date
Update	Balraj Singh	ENSDF	12-Jun-2015

 $Q(\beta^-)=1.05\times10^4$ SY; S(n)=4.3×10³ SY 2012Wa38 2010Oh02: ¹¹²Zr nuclide identified in Be(²³⁸U,F) and Pb(²³⁸U,F) reactions with a ²³⁸U⁸⁶⁺ beam energy of 345 MeV/nucleon produced by the cascade operation of the RBIF accelerator complex at RIKEN. Identification of ¹¹²Zr nuclei was made on the basis of magnetic rigidity, time-of-flight and energy loss of the fragments using BigRIPS fragment separator. 1 count was associated with ¹¹²Zr, based on Z versus A/Q identification.

2015Lo04: measured half-life from ion- β correlations, isotope produced in ⁹Be(²³⁸U,F) reaction at E=345 MeV/nucleon at RIKEN facility.

¹¹²Zr Levels

E(level)	J^{π}	T _{1/2}	Comments	
0	0+	30 ms +30-10	 %β⁻=100; %β⁻n=?; %β⁻2n=? Measured σ=7 pb (2010Oh02), systematic uncertainty≈40%. T_{1/2}: measured by 2015Lo04 from the analysis of the (implanted ions)β correlated decay curve in time and position. 	

 $T_{1/2} \approx 15$ ms (from systematics). A value of ≈ 43 ms is predicted in 2003Mo09.

 $\%\beta^{-}n,\%\beta^{-}2n$: Calculated $\%\beta^{-}n=26.3$ and $\%\beta^{-}2n=0.47$ in 2003Mo09.