

Adopted Levels

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, A. A. Sonzogni		NDS 114, 435 (2013)	1-Apr-2013

$Q(\beta^-)=11730$ (syst) 500; $S(n)=2991$ (syst) 565 [2017Wa10](#)

$S(2n)=7402$ (syst) 565; $Q(\beta^-n)=6879$ (syst) 593; $Q(\beta^-2n)=3.3\times 10^3$ (syst) 405 [2017Wa10](#)

[Additional information 1.](#)

[1987Ra12](#): Yield of ^{150}Cs was measured in $\text{U}(p,X)$ $E=600$ MeV reaction using ISOLDE On-Line Mass Separator.

[2000KoZH](#): ISOLDE On-Line Mass Separator. Measured E_γ , I_γ , E_n , I_n ; deduced $T_{1/2}$, nuclear magnetic moments, β -delayed neutron emission probabilities.

[2017Wu04](#): The ^{150}Cs nuclide was produced at the RIBF-RIKEN facility using the $^9\text{Be}(^{238}\text{U},F)$ reaction at $E=345$ MeV/nucleon.

Two experiments, optimized for the transmission of ^{158}Nd and ^{170}Dy ions, were carried out with average beam intensities of 7 pA and 12 pA, respectively. The identification of the nuclide of interest was made in the BigRIPS separator by determining the atomic number and the mass-to-charge ratio of the ion using the TOF-B ρ - ΔE method. The reaction products were transported through the ZeroDegree Spectrometer and implanted into the beta-counting system WAS3ABi that was surrounded by the EURICA array comprising of 84 HPGe detectors. The typical implantation rate was 100 ions/s. Measured: implanted ion- β^- -t, implanted ion- β^- - γ -t and implanted ions- γ -t correlations. Deduced: $T_{1/2}$.

 ^{150}Cs Levels

E(level)	$T_{1/2}$	Comments
0.0	84 ms 8	$\% \beta^- = 100$; $\% \beta^- n = 20$ 10 $\% \beta^-$: Only β^- decay mode is expected. $T_{1/2}$: From 2017Wu04 , using a fit to the implanted ion- β^- -t spectrum using the least-squares and maximum-likelihood methods. The data analysis included contributions from the parent, daughter and grand-daughter decays, as well as a constant background. $T_{1/2}=0.0844$ s 82 is reported in 2017Wu04 . Other: 82 ms 7 using $\beta n(t)$ in 2000KoZH . $\% \beta^- n$: From 2000KoZH .