

$^9\text{Be}(^{238}\text{U},\text{F}\gamma)$ 2017Pa25

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen		NDS 194,460 (2024)	31-Oct-2022

Dataset adapted from a compiled dataset from [2017Pa25](#) in the XUNDL database by F.G. Kondev (ANL), October 1, 2017.

[2017Pa25](#): $E(^{238}\text{U})=345$ MeV/nucleon from the RIBF-RIKEN facility. The identification of ions 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 surrounded by EURICA array of 84 HPGe detectors. Measured (implanted ions) $\gamma\gamma$ correlations within 100 μs following implantation.

 ^{165}Eu Levels

<u>E(level)</u>	<u>Comments</u>
0+x	124.2 γ , 156 γ and 244 γ were found to follow a decay of a μs isomer.

 $\gamma(^{165}\text{Eu})$

<u>E_γ[†]</u>	<u>$E_i(\text{level})$</u>
^x 124.2 6	
^x 156 1	
^x 244 1	

[†] From [2017Pa25](#), ΔE_γ are from the PhD thesis of Z. Patel. The γ rays were found to follow a decay of a μs isomer.

^x γ ray not placed in level scheme.