

$^9\text{Be}(^{238}\text{U}, \text{F}\gamma)$ 2018De35

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	A. Negret and B. Singh		NDS 203,283 (2025)	20-Jan-2025

2018De35 (also **2019De32**): $E(^{238}\text{U})=6.2$ MeV/nucleon from GANIL facility. Target= ^9Be , 2.07 mg/cm² thick. Fission products were identified and detected by mass, charge and atomic number using VAMOS++ spectrometer. The γ rays were detected by AGATA array of eight cluster modules of Ge detectors. Measured $E\gamma$, $I\gamma$, (particle) γ -coin, level lifetimes by recoil-distance Doppler-shift (RDDS) method. Comparison with mean-field calculations.

 ^{86}Se Levels

$E(\text{level})^\dagger$	J^π	$T_{1/2}$	Comments
0.0	0^+		
704.0 1	2^+	7.1 ps +8-15	$T_{1/2}$: mean lifetime $\tau=10.3 +12-22$ (2018De35 , recoil-distance Doppler-shift method). J^π : from the Adopted Levels.

† From $E\gamma$.

 $\gamma(^{86}\text{Se})$

$E_\gamma^\dagger$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. ‡	Comments
704.0 1	704.0	2^+	0.0	0^+	E2	$B(E2)\downarrow=0.0456 +124-48$ (2018De35)

† From **2018De35**.

‡ From Adopted Levels, Gammas.

 $^9\text{Be}(^{238}\text{U}, \text{F}\gamma)$ 2018De35Level Scheme