

^{135}Nd ε decay (5.5 min):? [1970Ab07](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, Alexander A. Rodionov And Yuri L. Khazov		NDS 109, 517 (2008)	22-Jan-2008

Parent: ^{135}Nd : $E=65.0$ 2; $J^\pi=(1/2^+)$; $T_{1/2}=5.5$ min 5; $Q(\varepsilon)=4722$ 23; $\% \varepsilon + \% \beta^+$ decay=99.985 15

^{135}Nd - $\% \varepsilon + \% \beta^+$ decay: $\% \text{IT} < 0.03$ (from RUL(M4)=30).

[1970Ab07](#): source produced by spallation reaction (600 MeV protons in a Gd target), measured $T_{1/2}$.

Identification of this isomer is uncertain. No data are available for its decay through ε , β^+ or IT and γ rays. The half-life (5.5 min 5) was measured ([1970Ab07](#)) indirectly by growth and decline of intensity of 296γ from the decay of daughter activity of ^{135}Pr produced from the neodymium fraction. A similar $T_{1/2}=6$ min 1 was measured ([1970Ab07](#)) from the decay of 266γ from ^{135}Ce decay.