

^{165}Re ε decay (2.61 s) [1999Po09](#),[2005Sc22](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Ashok K. Jain and Anwesha Ghosh, Balraj Singh		NDS 107, 1075 (2006)	15-Apr-2006

Parent: ^{165}Re : $E=0.0$; $J^\pi=(1/2^+)$; $T_{1/2}=2.61$ s +14-13; $Q(\varepsilon)=8210$ 40; $\% \varepsilon + \% \beta^+$ decay >95.0

^{165}Re - $T_{1/2}$: From ^{165}Re decay ([2005Sc22](#)).

^{165}Re - $\% \varepsilon + \% \beta^+$ decay: $\% \alpha < 5$ ([2005Sc22](#)).

According to the α decay study of ^{177}Tl to ^{165}Re decay chain by [1999Po09](#), there are two isomers in ^{165}Re : $1/2^+$ ($s_{1/2}$) ground state and $11/2^-$ ($h_{11/2}$) isomer at 48 keV 26. The spin assignments and the energy separation are derived by [1999Po09](#) from systematics. The half-lives of the two isomers were not given by these authors.

The half-life and decay modes of this activity are from [2005Sc22](#).