

^{165}Re ε decay (2.32 s) [1996Pa01](#),[1981Ho10](#)

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=48 26; $J^\pi=(11/2^-)$; $T_{1/2}=2.32$ s 9; $Q(\varepsilon)=8210$ 40; $\% \varepsilon + \% \beta^+$ decay=87 3

^{165}Re - $T_{1/2}$: from α decay of ^{165}Re isomer. The value is the weighted average of 2.37 s +10-9 ([2005Sc22](#)), 1.9 s 3 ([1996Pa01](#)), 2.2 s 4 ([1984Sc06](#),[1978Sc26](#)) and 2.4 s 6 ([1981Ho10](#)).

^{165}Re -E: E=48 26 estimated by [1999Po09](#) from systematics.

^{165}Re - $\% \varepsilon + \% \beta^+$ decay: From $\% \alpha=13$ 3 ([1981Ho10](#)).

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 assignment of the 2.0 s isomer to ($11/2^-$) state is as suggested by [2003Au02](#).