

^{163}Re α decay (214 ms) [1997Da07](#),[1996Pa01](#),[1979Ho10](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	C. W. Reich	NDS 113, 157 (2012)	31-Dec-2010

Parent: ^{163}Re : $E=115.4$; $J^\pi=11/2^-$; $T_{1/2}=214$ ms 5; $Q(\alpha)=6017.7$; $\% \alpha$ decay= 66.4

^{163}Re -E: From [1997Da07](#) based on α -energy differences in ^{167}Ir to ^{151}Tm α -decay chain.

^{163}Re - $Q(\alpha)$: See ^{163}Re α decay (390 ms).

^{163}Re - $T_{1/2}$: From [1997Da07](#); others: 219 ms 23 ([1996Pa01](#)), 260 ms 40 ([1979Ho10](#)).

^{163}Re - $\% \alpha$ decay: from $\% \alpha=66.4$ ([1997Da07](#)); others: 82.11 ([1996Pa01](#)) and 64.18 ([1981Ho10](#)).

[Additional information 1](#).

Others: [2001Da31](#) (which includes information first presented in [1997Da07](#)); [1981Ho10](#); [1981HoZM](#).

 ^{159}Ta Levels

E(level)	J^π	Comments
64.5	$11/2^-$	E(level): from 1997Da07 , based on α -energy differences in the ^{167}Ir to ^{151}Tm α -decay chain. J^π : fed by a (favored) α transition from ^{163}Re (214 ms).

 α radiations

$E\alpha$	E(level)	Comments
5919.3	64	$E\alpha$: Weighted average of: 5920.5, (1997Da07); 5918.7, (1996Pa01); and 5918.6, (1979Ho10). 2002Ro17 report $E\alpha=5918$, but do not list an uncertainty for IT.