
 $^{183}\text{Hf}^{71+}$ IT decay [2010Re07,2012Re19](#)

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	Coral M. Baglin	NDS 134, 149 (2016)	15-Apr-2015

Parent: ^{183}Hf : E=1464 64; $T_{1/2}=10\text{ s}+48-5$; %IT decay=100.0

[2010Re07](#): ^{197}Au projectiles (E=478A to 492A MeV) fragmented by ^9Be on Nb backing; stripped reaction products separated In fragment separator (with 200 μm Al foil At center), injected into storage ring and stochastically and electron cooled; time-resolved Schottky mass spectrometry; measured $T_{1/2}$ of metastable states for highly-ionized or bare ^{183}Hf ions. See also [2012Re19](#).

 ^{183}Hf Levels

<u>E(level)</u>	<u>Comments</u>
1464 64	%IT($^{183}\text{Hf}^{71+}$)=100; $T_{1/2}(^{183}\text{Hf}^{71+})=10\text{ s}+48-5$ (2010Re07,2012Re19). J^π : possible $K^\pi=27/2^-$ state with configuration $((\pi\ 7/2[404])+(\pi\ 9/2[514])+(\nu\ 11/2[615]))$ (2010Re07). E(level): from direct mass measurement (2010Re07).