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$^{160}\text{W}\ \alpha$ **decay**   **1996Pa01**

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		History	
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	C. W. Reich	NDS 113, 2537 (2012)	1-Mar-2012

Parent: ^{160}W: E=0.0; $J^{\pi}=0^{+}$; $T_{1/2}=91$ ms 5; $Q(\alpha)=6066$ 5; $\%\alpha$ decay=87 8

$^{160}\text{W-}T_{1/2}$: Additional information 1.

$^{160}\text{W-}Q(\alpha)$: Additional information 2.

$^{160}\text{W-}\%\alpha$ decay: From 1996Pa01. Other: $\%\alpha$=94 40 (1981Ho10).

Additional information 3.

The listed comments have been adapted, and in some cases modified, from those in the evaluation by 1998Ak04.

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^{156}Hf Levels

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E(level)	J^{π}
0.0	0^{+}

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α radiations

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$E\alpha$	E(level)	$I\alpha^{\dagger}$	HF	Comments
5912 5	0.0	100	1.0	HF: $r_0(^{156}\text{Hf})$=1.557 10 is obtained from HF(5912α)=1.0.
				$E\alpha$: From 1996Pa01. Other: $E\alpha$=5920 10, (1979Ho10).
				$I\alpha$: α intensity per 100 α decays.
				$I\alpha$: Only one α group is observed. An upper limit of 0.037% of α decays is calculated for an unobserved $\approx$5130−keV α to the 2^{+} state, expected at $\approx$800 keV in ^{156}Hf, by requiring HF(5130α)>1. E(first 2^{+} state in ^{156}Hf) is extrapolated as $\approx$800 keV, from E(2^{+} state in ^{158}Hf)=610, E(2^{+} state in ^{160}Hf)=389 6. The 2^{+} state in ^{156}Hf has not yet been observed in α decay.

† For absolute intensity per 100 decays, multiply by 0.87 8.