

^{177}Ir α decay [1967Si02](#),[1986Ke03](#),[1990Bo19](#)

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	V. S. Shirley	NDS 75,377 (1995)	1-Oct-1993

Parent: ^{177}Ir : $E=0.0$; $J^\pi=(5/2^-)$; $T_{1/2}=30$ s 2; $Q(\alpha)=5130$ 50; $\% \alpha$ decay=0.06 1

^{177}Ir - $\% \alpha$ decay: from [1990Bo19](#).

[1967Si02](#): sources from ^{19}F bombardments of Er; measured $E\alpha$ (Au-Si surface-barrier detector).

[1986Ke03](#): sources from fusion of ^{90}Zr with ^{90}Zr , ^{92}Zr , and ^{89}Y , followed by velocity-filter, evaporation-residue separation; measured $E\alpha$, $I\alpha$ (central surface-barrier detector, FWHM=25); determined α branching ratio.

[1990Bo19](#): sources from $^{141}\text{Pr}(^{40}\text{Ar},4n)$, helium-jet transport; measured $E\alpha$, $I\alpha$ (silicon surface-barrier detector); determined α branching ratio.

 ^{173}Re Levels

<u>E(level)</u>	<u>J^π</u>	<u>$T_{1/2}$</u>
0.0	(5/2 ⁻)	1.98 min 26

 α radiations

<u>$E\alpha$</u>	<u>E(level)</u>	<u>$I\alpha^\dagger$</u>	<u>HF</u>	<u>Comments</u>
5011 10	0.0	100	1.5	$E\alpha$: from 1967Si02 .

[†] For absolute intensity per 100 decays, multiply by 0.0006 1.