

^{187}Hg α decay (1.9 min) [1970Ha18](#)

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

Parent: ^{187}Hg : $E=0.0$; $J^\pi=3/2^{(-)}$; $T_{1/2}=1.9$ min 3; $Q(\alpha)=5230$ 14; % α decay>0.012

^{187}Hg -% α decay: % $\alpha=0.00017$ 5 from simultaneous counting of α 's and K x-rays ([1970Ha18](#)). given As limit because x-ray intensity not corrected for internal conversion and not divided between isomer and ground state decays.

[1970Ha18](#) report a 5035 α and a 4870 α with respective half-lives of 1.9 min 3 and 2.4 min 3, and $I(5035\alpha)/I(4870\alpha)=2.1$ 3. Those α 's are presumed to arise from the decay of $3/2^-$ and $13/2^{(+)}$ levels of ^{187}Hg .

For this decay scheme, $Q_{\text{xBR}}=0.628$ 2.

[Additional information 1.](#)

 ^{183}Pt Levels

E(level)	J^π †
84.73 7	$3/2^-$

† From Adopted Levels.

 α radiations

$E\alpha$	E(level)	$I\alpha$ ‡	HF†	Comments
5035 20	84.73	100	0.77 14	this $E\alpha$ implies $Q(\alpha)=5230$ 20 cf. 5230 14 from 2012Wa38 .

† If $r_0=1.493$ 12 (unweighted average of $r_0(^{182}\text{Pt})=1.504$ 27 and $r_0(^{184}\text{Pt})=1.481$ 28 ([1998Ak04](#))).

‡ For absolute intensity per 100 decays, multiply by >0.00012.