

$^{187}\text{Au}$   $\alpha$  decay **1968Si01**

<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:  $^{187}\text{Au}$ :  $E=0.0$ ;  $J^\pi=1/2^+$ ;  $T_{1/2}=8.4$  min 3;  $Q(\alpha)=4751$  29;  $\% \alpha$  decay=0.003 SY

**1968Si01**:  $^{187}\text{Au}$  from  $^{174}\text{Yb}(^{19}\text{F},6n)$ ; He-jet recoil transport; measured excit,  $\alpha$  spectrum (using ion chamber). One weak group tentatively assigned to  $^{187}\text{Au}$  decay on the basis of energy and excitation function systematics.

For this decay scheme,  $Q_{\alpha\text{BR}}=0.143$  I.

 $^{183}\text{Ir}$  Levels

<u>E(level)</u>	<u><math>J^\pi</math></u>	<u>Comments</u>
0.0	$5/2^-$	$J^\pi$ : from Adopted Levels.
0.0+x?		level not ADOPTED.

 $\alpha$  radiations

<u><math>E_\alpha</math></u>	<u>E(level)</u>	<u><math>I_\alpha^\dagger</math></u>
4690 $^\ddagger$ 20	0.0+x?	100

$^\dagger$  For absolute intensity per 100 decays, multiply by syst 0.00003.

$^\ddagger$  Existence of this branch is questionable.