

^{147}Sm α decay 2010Su30

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 113, 715 (2012)	31-May-2011

Parent: ^{147}Sm : $E=0.0$; $J^\pi=7/2^-$; $T_{1/2}=1.07\times 10^{11}$ y I ; $Q(\alpha)=2311$ I ; $\% \alpha$ decay=100.0

^{147}Sm - $T_{1/2}$: $T_{1/2}=1.07\times 10^{11}$ y I measured with a metallic source. $T_{1/2}=1.06\times 10^{11}$ y I measured with an oxide source (2010Su30). Other values: 1.070×10^{11} y 9 (2009Ko15), 1.17×10^{11} y 2 (2003Ki26). Others: 1992Ma26, 1987Al28, 1965Va16, 1964Do01, 1961Wr02, 1961Ma05, 1960Ka23.

Measured: $E(\alpha)$, $T_{1/2}(\alpha)$.

 ^{143}Nd Levels

<u>$E(\text{level})$</u>	<u>J^π</u> [†]
0.0	$7/2^-$

[†] From Adopted Levels.

 α radiations

<u>$E\alpha$</u>	<u>$E(\text{level})$</u>	<u>$I\alpha$</u> [†]	<u>Comments</u>
2248 I	0.0	100	$E\alpha$: from $Q(\alpha)=2311$ keV I (2011AuZZ). Other values: $E\alpha=2233$ 5 (1970Gu14), 2231 I 0 (1962Si14).

[†] Absolute intensity per 100 decays.