

^{151}Dy α decay (17.9 min) [1973BoXL](#),[1974To07](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	N. Nica and B. Singh		NDS 181, 1 (2022)	9-Mar-2022

Parent: ^{151}Dy : $E=0.0$; $J^\pi=7/2^{(-)}$; $T_{1/2}=17.9$ min 3; $Q(\alpha)=4179.6$ 26; $\% \alpha$ decay=5.6 4

[1973BoXL](#): measured E_α .

[1974To07](#): measured I_α , $I(\alpha(K),x\text{-ray})$, E_γ , I_γ .

Others: [1953Ra02](#), [1964Ma19](#), [1965Ma51](#), [1967Go32](#), [1973Bi06](#).

 ^{147}Gd Levels

<u>E(level)</u>	<u>J^π</u>	<u>$T_{1/2}$</u>
0.0	$7/2^-$	38.06 h 12

 α radiations

<u>E_α</u>	<u>E(level)</u>	<u>I_α^\ddagger</u>	<u>HF†</u>	<u>Comments</u>
4069.4 24	0.0	100	1.81 14	E_α : from evaluation by 1991Ry01 . $E=4067$ 3 (1973BoXL ,semi) 1978Ha22 calculate HF=1.7 from data of 1974To07 . 1981HoZM give HF in terms of the ^{212}Po g.s. transition as favored a transition used as the reference transition.

† The nuclear radius parameter $r_0(^{147}\text{Gd})=1.5706$ 33 is deduced from interpolation (or unweighted average) of radius parameters of the adjacent even-even nuclides.

‡ For absolute intensity per 100 decays, multiply by 0.056 4.