

$^{199}\text{Rn}$   $\alpha$  decay (0.31 s) [1984Ca32,1982Hi14](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong and Kang Mengxiao		NDS 121, 395 (2014)	1-Mar-2014

Parent:  $^{199}\text{Rn}$ :  $E=180\ 70$ ;  $J^\pi=(13/2^+)$ ;  $T_{1/2}=0.31\ \text{s}\ 2$ ;  $Q(\alpha)=714\times 10^1\ 5$ ;  $\% \alpha\ \text{decay}=97.0\ \text{SY}$

$^{199}\text{Rn}$ - $T_{1/2}$ : Weighted av of 0.31 s 2 ([1999Ta03](#)) and 0.325 s 25 ([1984Ca32](#)). Other: 0.26 s +8-5 ([2005Uu02](#)).

$^{199}\text{Rn}$ - $\% \alpha$  decay: [Additional information 1](#).

$^{199}\text{Rn}$ - $\% \alpha$  decay:  $\% \alpha$ ,  $\% \epsilon$ , and  $\% \text{IT}$  are not determined ([1988Sc02](#)).

Sources produced usually by  $^{86}\text{Kr}(^{116}\text{Sn},3n)$   $E=345\text{-}385\ \text{MeV}$  ([1982Hi14](#)),  $\text{Th}(p,X)$   $E=600\ \text{MeV}$  ([1984Ca32](#)).

For evaluations, see [1991Ry01](#), [1988Sc02](#), and [1986BrZQ](#).

For  $\alpha$  decay systematics, see [1983Po07](#).

$E\alpha$  and  $T_{1/2}$  measured ([1984Ca32,1982Hi14,2005Uu02](#)).

 $^{195}\text{Po}$  Levels

<u><math>E(\text{level})^\dagger</math></u>	<u><math>J^\pi^\dagger</math></u>
0.0	( $3/2^-$ )
$\approx 230$	( $13/2^+$ )

$^\dagger$  From Adopted Levels.

 $\alpha$  radiations

<u><math>E\alpha</math></u>	<u><math>E(\text{level})</math></u>	<u><math>I\alpha^\dagger</math></u>	<u>HF</u>	<u>Comments</u>
7060 6	$\approx 230$	100	0.90 SY	$E\alpha$ : from <a href="#">2005Uu02</a> . Other: 7059 10 ( <a href="#">1984Ca32</a> ), 7060 15 ( <a href="#">1980Di07,1982Hi14</a> ). HF: $r_0=1.515\ 15$ ( <a href="#">1988Sc02</a> ).

$^\dagger$  For absolute intensity per 100 decays, multiply by syst 0.97.