

Adopted Levels

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong, Zhou Chunmei		NDS 104,283 (2005)	1-Jan-2002

$S(n)=8.57\times 10^3$ 4; $S(p)=1.90\times 10^3$ 5; $Q(\alpha)=7411$ 8 [2012Wa38](#)

Note: Current evaluation has used the following Q record 8566 63 1890 85 7411 50 [2003Au03](#).

Isotope produced by $^{169}\text{Tm}(^{35}\text{Cl},7n)$ ([1996En02](#)) and by $^{166}\text{Er}(^{36}\text{Ar},5n)$ $E=208$ MeV ([1995Mo14](#),[1997Pu01](#)). Identified by position correlation of α decay chain. Gas-filled recoil mass separator.

 ^{197}Rn Levels

E(level) [†]	J^π [†]	$T_{1/2}$	Comments
0	$(3/2^-)$	65 ms +25-14	$\% \alpha \approx 100$ $T_{1/2}$: from 1996En02 . Other value: 51 ms +35-15 (1995Mo14 , 1996MoZV).
0+x	$(13/2^+)$	19 ms +8-4	$\% \alpha \approx 100$ $T_{1/2}$: from 1996En02 . Other values: 18 ms +9-5 (1995Mo14 , 1996MoZV); 20 ms +68-14 (1997Pu01).

[†] From systematics of odd-A Rn isotopes.