^{199}Rn α decay (0.59 s) 1984Ca32,1982Hi14

History

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

Parent: ^{199}Rn: E=0.0; J^π=(3/2$^-$); $T_{1/2}$=0.59 s *3*; Q(α)=714×10[1] *5*; %α decay=94.0 *SY*

^{199}Rn-$T_{1/2}$: weighted av of 0.57 s 3 (1999Ta03) and 0.620 s 25 (1984Ca32). Other: 1.1 s +9-4 (2005Uu02).

^{199}Rn-%α decay: From syst (1980Sc26,1973Ta30). %$\varepsilon\approx$10 (syst 1980Sc26).

Others: 1973Ta30, 1988Sc02, 1980Sc26, 1981En02.

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

For evaluations, see 1991Ry01, 1988Sc02, and 1986BrZQ.

For α decay systematics, see 1983Po07.

Eα and $T_{1/2}$ measured (1984Ca32,1982Hi14).

^{195}Po Levels

E(level)	J^π
0.0[†]	(3/2$^-$)[†]

[†] From Adopted Levels.

α radiations

Eα	E(level)	Iα[†]	HF	Comments
6989 *6*	0.0	100	0.98 *SY*	Eα: from 2005Uu02. Others: 6990 *15* (1980Di07), 6989 *10* (1982Hi14), 6995 *10*(1984Ca32). HF: r_0=1.515 *15* (1988Sc02).

[†] For absolute intensity per 100 decays, multiply by syst 0.94.