^{201}Rn α decay (3.8 s)

History

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

Parent: ^{201}Rn: E=280 *SY*; J^{π}=(13/2$^+$); $T_{1/2}$=3.8 s *1*; Q(α)=6861 *50*; %α decay≈90.0

^{201}Rn-%α decay: From systematics (1971Ho01).

Mass-separated Rn isotopes and Po daughter α decays studied.

$T_{1/2}$: from 1996Ta18. Other: 3.8 s *4* (1971Ho01).

^{197}Po Levels

E(level)	J^{π}	$T_{1/2}$	Comments
204 *SY*	(13/2$^+$)	32 s *2*	$T_{1/2}$: from 1996Ta18. other: 25.8 s *1* (1993Wa04), 29 s *9* (1967Le21),26 s *2* (1967Si09), 27 s *3* (1971Ho01),40 s *10* (1982Bo04).

α radiations

Eα	E(level)	Iα[‡]	HF[†]	Comments
6773 *2*	204	100	≈1.3	Eα: from 1996Ta18. Other: 6772.1 *25* (1993Wa04), 6770 *8* (1971Ho01).

[†] r_0=1.5101(1993Wa04).

[‡] For absolute intensity per 100 decays, multiply by ≈0.90.