^{201}Rn α decay (7.1 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=0; J^{π}=(3/2$^-$); $T_{1/2}$=7.1 s *8*; Q(α)=6861 *50*; %α decay≈80.0
^{201}Rn-%α decay: From systematics (1971Ho01).
$T_{1/2}$: from 1996Ta18. Other: 7.0 s *4* (1971Ho01).

^{197}Po Levels

E(level)	J^{π}	$T_{1/2}$	Comments
0.0	(3/2$^-$)	84 s *16*	$T_{1/2}$: from 1996Ta18. other: 53 s *1* (1993Wa04), 58 s *3* (1967Le21), 52 s *4* (1967Si09), 60 s *6* (1971Ho01).
(130 *SY*)	(5/2$^-$)		

α radiations

Eα	E(level)	Iα[‡]	HF[†]	Comments
(6590 *CA*)	(130)	2.5 *CA*	≈18	
6725 *2*	0.0	97 *SY*	≈1.5	Eα: from 1996Ta18, Other: 6723.7 *25* (1993Wa04), 6721 *8* (1971Ho01). Iα: ≈80% (1986BrZQ). HF: uncertainty does not include the uncertainty in α branching.

[†] r_0=1.5101(1993Wa04).
[‡] For absolute intensity per 100 decays, multiply by ≈0.80.