^{216}Rn α decay 1961Ru06,1970Va13

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	K. Auranen and E. A. Mccutchan	NDS 168, 117 (2020)	1-Aug-2020

Parent: ^{216}Rn: E=0.0; $J^\pi=0^+$; $T_{1/2}$=45 μs *5*; Q(α)=8197 *6*; %α decay=100.0
^{216}Rn-$T_{1/2}$: from 1961Ru06. Other: 29 μs *4* (2018Sa45).

^{212}Po Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	0^+	294.3 ns *8*	$T_{1/2}$: from the Adopted Levels.

α radiations

Eα	E(level)	Iα[‡]	HF[†]	Comments
8050 *10*	0.0	100	1.0	Eα: from 1970Va13. Other: 8047 *10* (1961Ru06). The original energy given by 1961Ru06 has been increased by 7 keV due to a change in calibration energy. Iα: only one α group has been observed. Upper limit for the intensity of an unobserved 7334-keV α to the 2^+, 727.330-keV level has been estimated to be ≤0.7% by assuming its hindrance factor to be ≥1.

[†] $r_0(^{212}Po)$=1.5658 *59*, deduced by evaluators by taking HF(8050α)=1.0.
[‡] Absolute intensity per 100 decays.