

^{220}Pa α decay (0.31 μs) 2018Hu13

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	C. Morse	NDS 209,409 (2026)	5-Aug-2025

Parent: ^{220}Pa : $E=26\ 23$; $T_{1/2}=0.31\ \mu\text{s} +25-10$; $Q(\alpha)=9704\ 11$; $\% \alpha$ decay=100

^{220}Pa -E: Based on difference between observed Q_α and Q_α^{gs} (2021Wa16).

^{220}Pa - $T_{1/2}$: From 2018Hu13.

^{220}Pa - $Q(\alpha)$: From 2021Wa16.

^{220}Pa - $\% \alpha$ decay: Only α decay has been observed (2018Hu13).

2018Hu13: ^{220}Pa studied at HIRFL, produced as the α -decay daughter of ^{224}Np . Observed the presence of isomeric states by examining pileup traces following decay of the parent nucleus.

 ^{216}Ac Levels

E(level)	J^π	$T_{1/2}$	Comments
0	(1 ⁻)	0.374 ms 22	$J^\pi, T_{1/2}$: From Adopted Levels.

 α radiations

E_α	E(level)	Comments
9553 20	0	E_α : From 2018Hu13.