^{220}Np α decay 2019Zh23

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

Parent: ^{220}Np: E=0; $T_{1/2}$=25 μs *+14−7*; Q(α)=10226 *18*; %α decay=100

^{220}Np-$T_{1/2}$: From 2019Zh23.

^{220}Np-Q(α): From 2021Wa16.

2019Zh23: Discovery of ^{220}Np isotope, produced at HIRFL using the ^{185}Re(^{40}Ar,5n) reaction at 201 MeV. Evaporation residues were separated from the beam using SHANS and implanted into silicon detectors and correlated with later α-decay signals. Measured E_α, $T_{1/2}$.

^{216}Pa Levels

E(level)	$T_{1/2}$	Comments
0	143 ms *19*	$T_{1/2}$: From Adopted Levels.

α radiations

Eα	E(level)
10040 *18*	0