

Adopted Levels

Type	History		Literature Cutoff Date
	Author	Citation	
Full Evaluation	E. A. Mccutchan	ENSDF	1-Jun-2021

$Q(\beta^-) = -7.08 \times 10^3$ 13; $S(n) = 9.73 \times 10^3$ 12; $S(p) = 180$ 80; $Q(\alpha) = 8240$ 60 [2021Wa16](#)

$S(2n) = 17990$ 100, $S(2p) = 2910$ 80, $Q(\epsilon p) = 4080$ 80 ([2021Wa16](#)).

[1979Sc09](#): ^{215}Pa activity was produced with $^{181}\text{Ta}(^{40}\text{Ar}, 6n)$, $E = 165\text{-}202$ MeV and separated with a velocity filter. The activity was identified by excitation functions, and by its genetic relationship to daughter nuclei. Measured $E\alpha$, $\alpha(t)$.

[2000He17](#) (also [1996An21](#)): ^{215}Pa activity produced with $^{170}\text{Er}(^{51}\text{V}, 6n)$, $E = 214\text{-}286$ MeV and separated from the beam with a velocity filter. The activity was identified by its genetic relationship to daughter nuclei. Measured $E\alpha$, $\alpha(t)$ with 16-strip Si detector.

[2018Ya01](#): ^{215}Pa activity produced as daughter of ^{219}Np . Alpha decays from ^{215}Pa could not be distinguished from those of ^{214}Pa .

[Additional information 1](#).

 ^{215}Pa Levels

<u>E(level)</u>	<u>J^π</u>	<u>$T_{1/2}$</u>	<u>Comments</u>
0	(9/2 ⁻)	14 ms 2	$\% \alpha = 100$ $T_{1/2}$: from 2000He17 . Other: 14 ms +20-3 (1979Sc09). J^π : favored α decay to ^{211}Ac with $J^\pi = 9/2^-$.