

^{236}Np α decay

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
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Parent: ^{236}Np : $E=0$; $J^\pi=(6^-)$; $T_{1/2}=154\times 10^3$ y 6; $Q(\alpha)=5010$ 50; $\% \alpha$ decay=0.16 6

From $T_{1/2}(\alpha)$ of [1981Li30](#) and from α syst ([1980Sc26,1972El21](#)), we expect a favored α -particle branch from ^{236}Np to a (6^-) level at ≈ 400 keV in ^{232}Pa . However, this α -particle branch was not detected. A 894-keV γ ray detected in the decay of ^{236}Np was assigned to the β^- decay of ^{232}Pa ($T_{1/2}=1.32$ d) thus confirming the α decay of ^{236}Np . This 894-keV γ ray decayed with $T_{1/2}(\alpha)=95\times 10^6$ y 35, which corresponds to an α -particle branching of 0.16% 6.