

^{236}Np β^- decay (22.5 h)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Shaofei Zhu	NDS 182, 2 (2022).	1-Apr-2022

Parent: ^{236}Np : E=57 51; $J^\pi=1^{(-)}$; $T_{1/2}=22.5$ h 4; $Q(\beta^-)=4.8\times 10^2$ 5; % β^- decay=49 1

^{236}Np -Q(β^-): From 2021Wa16.

^{236}Np -E, J^π , $T_{1/2}$: From the Adopted Levels of ^{236}Np .

^{236}Np -% β^- decay: From the Adopted Levels of ^{236}Np .

α : [Additional information 1](#).

 ^{236}Pu Levels

E(level)	J^π
0	0^+
44.63 10	2^+

 β^- radiations

E(decay)	E(level)	$I\beta^{-\dagger}$	Log ft	Comments
(4.9×10^2) 7)	44.63	12 5	7.2 3	av $E\beta=143$ 24 $I\beta^-$: from 1969Le05; others: $\approx 10\%$ (1956Gr11).
(5.4×10^2) 7)	0	38 7	6.81 22	av $E\beta=158$ 24 $I\beta^-$: from 1969Le05; others: $\approx 40\%$ (1956Gr11).

\dagger Absolute intensity per 100 decays.

 $\gamma(^{236}\text{Pu})$

Normalization factor=0.00016 7 deduced from β^- branching=12% 5 to 44-keV level (1969Le05) and $\alpha(44\gamma)=741$.

E_γ	I_γ^\dagger	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	α	Comments
44.63 10	100	44.63	2^+	0	0^+	E2	741 13	$\alpha(\text{L})=538$ 10; $\alpha(\text{M})=150.1$ 27; $\alpha(\text{N})=41.2$ 7; $\alpha(\text{O})=9.69$ 17; $\alpha(\text{P})=1.515$ 27; $\alpha(\text{Q})=0.00326$ 6 E_γ : from 1956A140; other: 43.5 10 (1956Gr11). Mult.: from $L_{II}/L_{III}\approx 1$ (1956Gr11).

\dagger For absolute intensity per 100 decays, multiply by 0.00016 7.

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Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays