

Adopted Levels

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

$Q(\beta^-)=4.97\times 10^3$ 4; $S(n)=4.21\times 10^3$ 4; $S(p)=7200$ SY; $Q(\alpha)=2.72\times 10^3$ 4 [2021Wa16](#)
 $\Delta S(p)=300$ ([2021Wa16](#)).

$S(2n)=9.76E+3$ 4 ([2021WA16](#)).

[2008ChZI,2010Ch19, 2012Ch19](#): Single $^{236}\text{Ac}^{89+}$ ion was produced by the fragmentation of ^{238}U at an energy of 670 MeV/nucleon on a 4 g/cm^2 ^9Be target at GSI. It was separated in flight with FRagment Separator (FRS), injected into the storage-cooler ring ESR and electron cooled for high precision mass and half-life measurements.

 ^{236}Ac Levels

<u>E(level)</u>	<u>$T_{1/2}$</u>	<u>Comments</u>
0	1.2 min +58-5	$\% \beta^- = 100$ $T_{1/2}$: single ion tracing of $^{236}\text{Ac}^{89+}$, assuming ground state (2008ChZI,2010Ch19,2012Ch19). $\% \beta = 100\%$ on the basis of predicted $T_{1/2}(\beta) = 16$ s and $T_{1/2}(\alpha) > 10^{20}$ s (2019Mo01). No measurement available.