

Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	C. D. Nesaraja	NDS 198,449 (2024)	31-Jul-2022

Q(β^-)=-3730 90; S(n)=7366.2 24; S(p)=5012.5 18; Q(α)=6861.6 10 [2021Wa16](#)
 S(2n)=13530.5 27, S(2p)=8939.5 11 ([2021Wa16](#)).

Theoretical structure calculations:

Q(α), T_{1/2}(α) and T_{1/2}(SF):

[2022Wa06](#),[2022Xu04](#),[2021Ch44](#),[2021El09](#),[2021He09](#),[2021Gh10](#),[2021Ko21](#),
[2021Pa24](#),[2021He09](#),[2020Ca10](#),[2019So15](#),[2019Sr04](#),[2018Po05](#),[2015Ba24](#),
[2016Su09](#),[2013Ra05](#),[2013Se17](#),[2010Sa09](#),[2010Is01](#),[2010Ko36](#),[2010Ni09](#),
[2010Wa23](#),[2010Wa31](#),[2010Ye05](#),[2009Mo18](#),[2009De32](#),[2009Ma07](#),[2009Ni06](#),
[2009Sa25](#),[2009Wa01](#),[2009Zh39](#),[2008Xu06](#),[2007Pe30](#),[2007Po01](#),[2006De23](#),
[2006Xu08](#),[2005Xu01](#),[2005Zh24](#),[2005Do19](#),[2004Ro01](#),[2003Re32](#),[2001Mo13](#), [2000Ho27](#),[1993Bu09](#),[1992Bh03](#),[1991Bu05](#),[1983Ga05](#).

Bound state β^- decay:

[2021Li41](#),

Fission barrier heights:

[2021Po06](#),[2018Po05](#):

Excited levels:

[2016Li37](#),[2009Al09](#),[2006Sh19](#).

Deformation parameters:

[2002Re31](#),[1991Pa11](#).

Prompt neutron emission:

[2008Sa24](#).

Alpha decay of high-spin isomers:

[2007De53](#).

²⁴⁶Cf Levels

Cross Reference (XREF) Flags

A ²⁵⁰Fm α decay

E(level)	J $^\pi$	T _{1/2}	XREF	Comments
0	0 ⁺	35.7 h 5	A	% α <100; %SF=2.3×10 ⁻⁴ 7; % ϵ =? T _{1/2} : From 1951Hu39 . Other: 1951Gh23 . %SF: From T _{1/2} (SF)=1810 y 240: unweighted average of 2000 y 200 (1968Sk01), 1340 y 160 (1963Fr04), 2100 y 300 (1953Hu85). Other: T _{1/2} (SF)=1800 y 600, recommended in 2000Ho27 .
41 15 ≈2500	(2 ⁺)	45 ns 10	A	J $^\pi$: From systematics of even-even nuclei. %SF≤100 T _{1/2} : From fission fragment distribution along the flight path and fitting (1968Ga04). SF isomer produced by ²³⁸ U(¹² C,4n) (1968Ga04). Energy from difference between ground and isomer threshold energies as estimated by 1968Ga04 . See ϵ delayed fission from ²⁴⁶ Es (2001Sh09 , 1980Ga07).