Adopted Levels

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

Q(β^-)=−2370 *90*; S(n)=6570 *syst*; S(p)=2860 *90*; Q(α)=7640 *syst* 2021Wa16
ΔS(n)=190, ΔQ(α)=100 (syst,2021Wa16).
S(2n)=14350 *200* (syst), S(2p)=7470 *90* (2021Wa16).

Theoretical structure calculations:
Q(α), $T_{1/2}(\alpha)$ and $T_{1/2}$ s.f.
2022Xu04,2021He09,2019Sr04,2017Su11,2017Su11,1993Bu09.
Deformation parameters: 1991Pa11.
Isomers in heavy, deformed nuclei:
1987So10.
Fission isomers:
2009Mo18.
Systematics of β- delayed fission:
2015Gh03.
Fission barrier heights:
2009Mo18.

^{246}Es Levels

Cross Reference (XREF) Flags

A ^{250}Md α decay

E(level)	$T_{1/2}$	XREF	Comments
0.0+x	7.5 min *5*	A	%α=9.9 *18*; %ε+%β^+=90.1 *18* %α,%ε: From α/ε=0.11 *2* (1967Mi06). %ε-f≈0.003, ε delayed fission from 1980Ga07. J^π: From single particle systematics the expected configurations are (ν,5/2[622]) (^{239}U, ^{241}Pu, ^{243}Cm) and (π,7/2[633]) (^{249}Es, ^{253}Es) or (π,3/2[521]) (^{245}Es, ^{251}Es). The first combination leads to $J^\pi=6^+$ and 1^+, the second to $J^\pi=4^-$ and 1^-. In both cases, the high spin level is expected to be lower in energy than the low spin level (Gallagher-Moszkowski rule). 1987So10 predicts the existence of 4^-, 1^- isomers in this nucleus. $T_{1/2}$: Weighted average of 6.0 min *12* (2001Sh09), 8.2 min *36* (1989Ha27) and 7.7 min *5* (1967Mi06). Other: 8 min (1980Ga07).