

Adopted Levels

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 114, 1041 (2013)		1-Aug-2011

$Q(\beta^-)=80$ SY; $S(n)=4793$ SY; $S(p)=6286$ SY; $Q(\alpha)=6470$ SY [2012Wa38](#)

Estimated $\Delta Q(\beta^-)=346$, $\Delta S(n)=347$, $\Delta S(p)=411$, $\Delta Q(\alpha)=200$ ([2012Wa38](#)).

[Additional information 1](#).

Calculations, compilations:

Ground state properties: [1997Mo25](#), [1995Mo29](#).

Pion decay: [1988Io05](#).

Single-particle levels: [2005Pa13](#), [1994Cw02](#).

Spontaneous Fission: [2005Re16](#), [2004Ro01](#).

Proton Decay, Cluster Radioactivity: [2002Du16](#).

[1994Cw02](#) calculates the following single-particle level sequence: g.s. $9/2[615]$, 0.03 MeV $11/2[725]$, 0.05 MeV $7/2[613]$, 0.11 MeV $3/2[622]$, 0.17 MeV $1/2[620]$.

Assignment: $^{257}\text{Fm}(t,p)$ ([1980Hu03](#)).

Symmetric mass distribution in SF found; most probable total kinetic energy release is 242 MeV ([1980Hu03](#)).

 ^{259}Fm Levels

E(level)	$T_{1/2}$	Comments
0	1.5 s 2	%SF=100 $T_{1/2}$: from 2000Ho27 . Other values: 1.5 s 3 (1980Hu03), 1.6 s 1 (1985So03). %SF: only SF observed (1980Hu03). % β^- : from $Q(\beta^-)<430$ and $\log ft>5.3$ $T_{1/2}(\beta^-)>1\times 10^4$ s. % α : calculated $T_{1/2}(\alpha)\approx 3\times 10^{11}$ s (1997Mo25).