
Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	C. D. Nesaraja	NDS 130, 183 (2015)	30-Sep-2015

$S(p)=2360$ SY; $Q(\alpha)=8760$ SY [2012Wa38](#)
 $\Delta(S(p))=500$ and $\Delta(Q(\alpha))=310$ (syst, [2012Wa38](#)).

Experimental Studies:

[2008Kh10](#): ^{241}Fm produced and identified via the fusion evaporation reaction $^{204}\text{Pb}(^{40}\text{Ar}, 3n)$. ^{40}Ar beam with $E=187\text{-}206$ MeV from the UNILAC linear at GSI, Darmstadt bombarded a ^{204}Pb target. ^{241}Fm underwent spontaneous fission, and the evaporation residues were selected using the SHIP velocity filter and studied with a 16-strip Si detector, two time-of-flight detectors and an HPGe Clover detector. Measured Er-SF and Er- α correlated event (Er=evaporation residue), half-life and fission branching. No isomers were found in this study.

Theoretical/Systematical Studies:

[2011Ad15](#): Calculated energies of low lying one-quasiparticle states with the microscopic-macroscopic two-center shell model approach(TCSM) the WKB approximation and Royer's formula.

 ^{241}Fm Levels

E(level)	$T_{1/2}$	Comments
0	0.73 ms 6	$\%SF>78$ (2008Kh10); $\%\alpha<14$ (2008Kh10); $\%\epsilon<12$ (2008Kh10) $T_{1/2}$: From 145 Er-SF correlated events (2008Kh01). J^π : $1/2^-$ predicted in 1997Mo25 calculations.