Adopted Levels

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

Q(β^-)=720 *SY*; S(n)=4603 *SY*; S(p)=6872 *SY*; Q(α)=5736 *SY*   2012Wa38
Estimated ΔQ(β^-)=200, ΔS(n)=201, ΔS(p)=359, ΔQ(α)=201 (2012Wa38).
Additional information 1.

Calculations, compilation:
Ground state properties: 1997Mo25, 1995Mo29.
Single-particle Nilsson levels: 2005Pa73, 1994Cw02.

1994Cw02 have calculated the following single-particle level sequence: g.s. 7/2[613], 0.01 MeV, 3/2[622]; 0.02 MeV, 11/2[725], 0.06 MeV, 1/2[620]; 0.18 MeV, 9/2[615].

Assignment: ^{254}Cf(n,γ), parent of ^{255}Es (chem), grandparent of ^{255}Fm (1981Lo15).

^{255}Cf Levels

E(level)	J$^\pi$	T$_{1/2}$	Comments
0	(7/2$^+$)	85 min *18*	%β^-=100
			J$^\pi$: configuration=(ν 7/2[613]) from Nilsson model (1994Cw02). Allowed, hindered β^- decay to configuration=(π 7/2[633]) with log *ft*=5.7 *5* is consistent with this assignment.
			T$_{1/2}$: from 1981Lo15.
			%α: calculated T$_{1/2}$(α)≈4×10^{10} min (1997Mo25) gives %α≈2×10^{-7}.