Adopted Levels

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

Q(β^-)=−1742 *SY*; S(n)=5439 *SY*; S(p)=4866 *SY*; Q(α)=7885 *SY*   2012Wa38
Estimated ΔQ(β^-)=123, ΔS(n)=142, ΔS(p)=100, ΔQ(α)=100 (2012Wa38).
Additional information 1.

Calculations, compilations:
Favored α decay: 1993Bu09.
Ground state properties: 2009Sa25, 2008Do12, 2008Ro06, 2007Zh41, 2002Go24, 2001Re13, 1997Mo25, 1995Mo29.
Heavy ion emission: 1985Po11.
Single-particle Nilsson levels: 2005Pa73, 1994Cw02.
Ground state half-life: 2010Si27, 2009Sa25, 2008Do12, 2008Ro06, 2008Ro06, 2007Zh41, 2002Gu24, 2001Re13, 2000Ho27.
Nuclear Reactions:
^{246}Cm(^{48}Ca,X): E=205.5 MeV (2005Ad08).

1994Cw02 calculate the following single-particle level sequence: g.s. 11/2[725], 0.01 MeV *3*/2[622], 0.07 MeV *1*/2[620], 0.15 MeV
    9/2[615], 0.95 MeV *7*/2[613].

Assignment: ^{248}Cm(^{18}O,α3n), ion chem, parent of ^{255}Fm (1973Si40); ^{248}Cm(^{18}O,α3n), chem, parent of ^{259}Md (1982Wi08).

^{259}No Levels

E(level)	J^π	$T_{1/2}$	Comments
0	(9/2$^+$)	58 min *5*	%α=75 *4*; %ε+%β^+=25 *4*; %SF<10
			J^π: from analogy with ^{257}Fm (only N=157 nucleus with J^π assignment suggested by experimental results) configuration=(ν 9/2[615]). However, according to calculations in 1994Cw02 (see above), other assignments are possible.
			$T_{1/2}$: from 1973Si40; other: 59 min *13* (1982Wi08).
			%ε+%β^+,%SF: from 1982Wi08 (from number of SF events (^{259}Md SF) per ^{259}No decay). Estimate of %SF=1 *9* from growth and decay curves (1982Wi08,2000Ho27).
			See 2008AsZY for γ rays emitted following α decay of ^{259}No.