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^-)=−3140 *23*; S(n)=5989 *18*; S(p)=3936 *SY*; Q(α)=8428 *3* 2012Wa38
Estimated ΔS(p)=101 (2012Wa38).
Additional information 1.

Calculations, compilations:
α decay: 1993Bu09, 1992Bu03.
g.s. properties: 1997Mo25, 1995Mo29.
half-life, Q(α): 2010Si27, 2009Do22, 2009Sa25, 2008Do12, 2008Ro06, 2006Pa12, 2003Re32.
^{208}Pb(^{48}Ca,N) reaction, calculated σ: 2010Fe06, 2010Li32, 2008Za07, 2007Fe17, 2007Og05, 2006Fe05, 2006KaZT, 2006Si07, 2006SiZY, 2005Zu02, 2004Ch31, 2004Ch67, 2003Ab34, 2003Sw01, 2001Sm06, 2001Za10, 1999Ch42, 1999ChZT, 1999Sm02.
^{238}U(^{22}Ne,5n) reaction, measured $T_{1/2}$ (2008HaZU).
Heavy ion emission: 1986Po15, 1985Po11.
Single-particle Nilsson levels: 2006Pa12, 2011Ad15, 2005Pa73, and 1994Cw02.
Rotational bands: 2003Be41.

1994Cw02 have calculated the following single-particle level sequence: g.s. 1/2[620], 0.10 MeV, 3/2[622]; 0.28 MeV, 11/2[725]; 0.29 MeV, 7/2[613]; 0.44 MeV, 9/2[734]; 0.74 MeV, 9/2[615].

^{255}No Levels

Cross Reference (XREF) Flags

A ^{259}Rf α decay
B ^{208}Pb(^{48}Ca,N)

E(level)†	J^π	$T_{1/2}$	XREF	Comments
0.0	(1/2$^+$)	3.52 min *21*	B	%α=30 *5*; %ε+%β^+=70 *5* (2011As03) J^π: From α-decay hindrance factor systematics and analogy with N=153 nuclei (^{249}Cm, ^{251}Cf) suggests g.s. configuration=(ν 1/2[620]). $T_{1/2}$: Weighted average of 3.52 min *32*, from α fine structure measurement, and 3.52 min *21*, from $\alpha\gamma$ coincidence measurements (2011As03). Other values: 3.1 min *3* (1967Gh01), 3.0 min *2* (1968Fl08,1967Fl05), 3.3 min *2* (1970Es02). Others: 2006Gr24, 2004Mo27, 2004Mo40. %α: From 2011As03. %α=61 *3* (1976SiZS) is based on %ε+%β^+=39 *3* (1976SiZS), possibly affected by an impurity of ^{254}No in their source. Calculated $T_{1/2}$(SF)≈3 min (1985Lo17).
0+x			A	E(level): x=121 *74* from ^{259}Rf α decay.
101+x *30*			A	E(level): ΔE given does not include ΔE in x.

† From ^{259}Rf α decay.