^{261}Rf α decay (70 s)   2008Du09

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 114, 1041 (2013)	1-Mar-2012

Parent: ^{261}Rf: E=0.0; T$_{1/2}$=70 s 3; Q(α)=8648 36; %α decay=90 10

^{261}Rf-Q(α): From 2011AuZZ.

^{261}Rf-T$_{1/2}$: Weighted average of 68 s 3 (2008Du09), 65 s 10 (1999Ar21,1970Gh01), 78 s $+11-6$ (1996Ka66,2000Ho27,2002Ho11), and 75 s 7 (1996Ka66,2000Sy01). Others: 65 s (1994Lo27,1994La22), 20 s $+110-10$ (2008Dv02), 71 s $+342-33$ (2008Ga08).

^{261}Rf-%α decay: From %SF$\leq$11 (2008Du09,2002Ho11,2000Ho27,1996Ka66). Other: %ε+β^+<15 (1999Ar21,1970Gh01).

Additional information 1.

1970Gh01: ^{248}Cm(^{18}O,5n)^{261}Rf; parent of ^{257}No.

^{257}No Levels

E(level)	Comments
0.0+x	E(level): x=239 36 from Q(α)=8648 36 (systematics,2011AuZZ) and Eα; based on the assumption that the 70 s activity is the g.s. of ^{261}Rf.

α radiations

Eα	E(level)	Iα[‡]	HF[†]	Comments
8280 20	0.0+x	$\approx$100	$\approx$1.3	Eα,Iα: from 1970Gh01, 2002Ho11.

[†] r$_0$(^{257}No)=1.475 20.

[‡] For absolute intensity per 100 decays, multiply by 0.90 10.