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^{257}Rf α decay (4.1 s)   **1997He29,2010St14**

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History

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

Parent: ^{257}Rf: E≈75; J$^{\pi}$=(11/2$^-$); T$_{1/2}$=4.1 s *4*; Q(α)=9083 *8*; %α decay=88 *2*

^{257}Rf-E(level), T$_{1/2}$, Q(α) are from ^{257}Rf Adopted Levels.

2010St14: ^{253}Rf produced In ^{261}Sg decay. ^{261}Sg produced in ^{208}Pb(^{54}Cr,n). Measured α, γ, $\alpha\gamma$. γ's measured by four-fold segmented clover detector. α energy resolution (FWHM)≈21 keV. γ energy resolution (FWHM) 1.3 *4* 4 keV.

2002HeZS: Present α spectrum. Authors state that their preliminary results confirm those of 1997He29.

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^{253}No Levels

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E(level)	J$^{\pi}$
0.0[†]	(9/2$^-$)
54[†] *14*	(11/2$^-$)

[†] Band(A): Band 9/2$^-$[734]. A≈6 keV (if β=0), E$_0$≈−95 keV.

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α radiations

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Both α's are seen in delayed coincidence with daughter (^{253}No) α's.

Eα	E(level)	Iα[†#]	HF[‡]
8968 *10*	54	44 *3*	20 *3*
9021 *10*	0.0	56 *3*	22 *3*

[†] Per 100 α decays.
[‡] r$_0$(^{253}No)=1.470.
[#] For absolute intensity per 100 decays, multiply by 0.88 *2*.

^{257}Rf α decay (4.1 s)   **1997He29,2010St14**

Band(A): Band 9/2$^-$[734]

(11/2$^-$)   54

(9/2$^-$)   0.0

$^{253}_{102}$No$_{151}$