

^{95}Rh IT decay (1.96 min) [1975We03](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, G. Mukherjee, A. A. Sonzogni		NDS 111, 2555 (2010)	30-Jun-2009

Parent: ^{95}Rh : E=543.3 3; $J^\pi=(1/2)^-$; $T_{1/2}=1.96$ min 4; %IT decay=88 5

^{95}Rh -%IT decay: From comparison of $I_\gamma(543\gamma)$ with intensities of γ 's following ε decay of 543 state ([1975We03](#)). Other: 85% from % $I_\gamma(543\gamma)=77$ ([1981Gr20](#). γ 's; Ge(Li)) and $\alpha(543\gamma)=0.100$.

Measured γ 's, β^+ 's, $\gamma\gamma$ -coin, $\beta\gamma$ -coin, $\gamma(t)$; Ge(Li), scin. Assignment of γ 's to ^{95}Rh decay was made based on their half-lives, excitation function and appropriate reduction in their intensities relative to those of other Rh isotopes when a natural Ru target was used.

The strong 543 γ was interpreted as an isomeric transition by [1975We03](#) because it is not in coincidence with any β or γ -ray in the decay of ^{95}Rh to ^{95}Ru .

α : [Additional information 1](#).

 ^{95}Rh Levels

E(level)	J^π [†]	$T_{1/2}$ [†]
0.0	$9/2^+$	5.02 min 10
543.3 3	$(1/2)^-$	1.96 min 4

[†] From the Adopted Levels.

 $\gamma(^{95}\text{Rh})$

I_γ normalization: From $\Sigma I_\gamma(1+\alpha)$ (to g.s.)=100.

E_γ	$E_i(\text{level})$	J^π_i	E_f	J^π_f	Mult.	α	$I_{(\gamma+ce)}$ [†]	Comments
543.3 3	543.3	$(1/2)^-$	0.0	$9/2^+$	[M4]	0.1001	100	$\alpha(\text{K})=0.0842$ 12; $\alpha(\text{L})=0.01296$ 19; $\alpha(\text{M})=0.00247$ 4; $\alpha(\text{N})=0.000404$ 6; $\alpha(\text{O})=1.79\times 10^{-5}$ 3 $\alpha(\text{N+..})=0.000422$ 6 Mult.: from the adopted gammas.

[†] For absolute intensity per 100 decays, multiply by 0.88 5.

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Decay Scheme

%IT=88.5

