

^{90}Rb IT decay (258 s) 1981Ta05

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, E. A. Mccutchan		NDS 165, 1 (2020)	1-Mar-2020

Parent: ^{90}Rb : $E=106.90$ 3; $J^\pi=3^-$; $T_{1/2}=258$ s 4; %IT decay=2.5 4

1981Ta05: From $^{235}\text{U}(n,F)$. Mass separation of ^{90}Rb . NaI and Ge(Li). Measured E_γ , I_γ , $\gamma\gamma$ coin, $\gamma\gamma(\theta)$. The 158-s and 258-s ^{90}Rb activities were distinguished by varying collection and observation times.

See also ^{90}Rb β^- decay (258 s).

α : [Additional information 1](#).

 ^{90}Rb Levels

E(level) [†]	J^π [†]	$T_{1/2}$ [†]	Comments
0	0^-	158 s 5	
106.90 3	3^-	258 s 4	%IT=2.5 4; % β^- =97.5 4 %IT,% β^- : from the Adopted Levels.

[†] From the Adopted Levels.

 $\gamma(^{90}\text{Rb})$

I_γ normalization: from $\Sigma I(\gamma + ce)(\text{to g.s.}) = 2.5$ % 4.

E_γ	I_γ ^{†#}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [‡]	α	Comments
106.92 15	2.3 3	106.90	3^-	0	0^-	M3	10.76	$\alpha(\text{K})=8.72$ 14; $\alpha(\text{L})=1.72$ 3; $\alpha(\text{M})=0.294$ 5; $\alpha(\text{N})=0.0314$ 5; $\alpha(\text{O})=0.001041$ 16

[†] Relative to 1000 for 831 keV γ from ^{90}Rb β^- decay (258 s).

[‡] From the Adopted Levels.

[#] For absolute intensity per 100 decays, multiply by 0.093 18.

 ${}^{90}\text{Rb}$ IT decay (258 s) 1981Ta05Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
%IT=2.5 4

