

$^{87}\text{Y}$  IT decay (13.37 h) 1984Pr01,1966Sa16

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	T. D. Johnson and W. D. Kulp(a)		NDS 129, 1 (2015)	27-Jul-2015

Parent:  $^{87}\text{Y}$ :  $E=380.82$  7;  $J^\pi=9/2^+$ ;  $T_{1/2}=13.37$  h 3; %IT decay= $98.43$  10

$^{87}\text{Y}$ -%IT decay: calculated from measured  $I_{\beta^+}=0.75$  5 and theoretical  $\varepsilon/\beta^+$  ratio for decay to  $^{87}\text{Sr}$ .

This state also decays by electron capture.

 $^{87}\text{Y}$  Levels

E(level)	$J^\pi$	$T_{1/2}$	Comments
0.0	$1/2^-$	79.8 h 3	$J^\pi, T_{1/2}$ : from $^{87}\text{Y}$ Adopted Levels.
380.79 7	$9/2^+$	13.37 h 3	%IT= $98.43$ 10; % $\varepsilon$ +% $\beta^+$ = $1.57$ 10 $J^\pi, T_{1/2}$ : from $^{87}\text{Y}$ Adopted Levels.

 $\gamma(^{87}\text{Y})$ 

$E_\gamma$	$I_\gamma^\ddagger$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Mult.	$\alpha^\dagger$	Comments
380.79 7	79.3	380.79	$9/2^+$	0.0	$1/2^-$	M4	0.256	$\alpha(\text{K})_{\text{exp}}=0.207$ 4 (1966Sa16) B(M4)(W.u.)= $2.705$ 12 $\alpha(\text{K})=0.217$ 3; $\alpha(\text{L})=0.0329$ 5; $\alpha(\text{M})=0.00575$ 8 $\alpha(\text{N})=0.000753$ 11; $\alpha(\text{O})=4.46 \times 10^{-5}$ 7 $E_\gamma$ : from $^{87}\text{Y}$ Adopted $\gamma$ 's. $\alpha(\text{K})_{\text{exp}}$ : deduced from theoretical $\alpha_{\text{K}}=0.181$ 3 for the 388 M4 $\gamma$ in $^{87}\text{Sr}$ and the measured ratio $I_{\text{ceK}}(381)/I_{\text{ceK}}(388)=1.135$ 19 (1966Sa16).

$^\dagger$  Additional information 1.

$^\ddagger$  For absolute intensity per 100 decays, multiply by 0.9843 10.

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 **$^{87}\text{Y}$  IT decay (13.37 h) 1984Pr01,1966Sa16****Decay Scheme**

Intensities:  $I_{(\gamma+ce)}$  per 100 parent decays  
%IT=98.43 10

