

^{124}Sb IT decay (93 s) [1962Va18,1969Me04](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. Katakura, Z. D. Wu		NDS 109, 1655 (2008)	1-Apr-2008

Parent: ^{124}Sb : $E=10.86$; $J^\pi=5^+$; $T_{1/2}=93$ s 5; %IT decay= 75 5

^{124}Sb -%IT decay: From $\beta^-/\text{ce}(10.86\gamma)=0.25$ 5 ([1962Va18](#)).

[1962Va18](#): measured E_γ , ce.

[1969Me04](#): $^{123}\text{Sb}(n,\gamma)$, fission; measured E_γ , I_γ , $\gamma\gamma$ coin.

 ^{124}Sb Levels

E(level)	J^π [†]	$T_{1/2}$ [†]
0.0	3^-	60.20 d 3
10.86	5^+	93 s 5

[†] From Adopted Levels.

 $\gamma(^{124}\text{Sb})$

I_γ normalization: From $I(\gamma+\text{ce})(10.86\gamma)=100$.

E_γ	I_γ [†]	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	α [‡]	$I_{(\gamma+\text{ce})}$ [†]	Comments
10.86	0.00457	10.86	5^+	0.0	3^-	[M2]	2.19×10^4	100	$\alpha(\text{L})=1.799 \times 10^4$; $\alpha(\text{M})=3.93 \times 10^3$ E_γ : from (n, γ). $E_\gamma \approx 10$ keV was deduced from $E(\text{ce}(\text{L}))=5.7$ keV and $E(\text{ce}(\text{M}))=9.4$ keV (1962Va18).

[†] For absolute intensity per 100 decays, multiply by 0.75 5.

[‡] Total theoretical internal conversion coefficients, calculated using the BrIcc code ([2008Ki07](#)) with Frozen orbital approximation based on γ -ray energies, assigned multiplicities, and mixing ratios, unless otherwise specified.

 ^{124}Sb IT decay (93 s) 1962Va18,1969Me04Decay SchemeIntensities: $I_{(\gamma+ce)}$ per 100 parent decays

%IT=75.5

