

^{124}Sb IT decay (20.2 min) 1962Va18

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

Parent: ^{124}Sb : $E=36.84$; $J^\pi=(8)^-$; $T_{1/2}=20.2$ min 2; %IT decay=100.0

^{124}Sb -%IT decay: Only E3 isomeric decay has been reported.

1962Va18: measured E_γ , ce.

 ^{124}Sb Levels

$E(\text{level})^\dagger$	$J^\pi^\dagger$	$T_{1/2}^\dagger$
0.0	3^-	60.20 d 3
10.8624 8	5^+	93 s 5
36.8440 14	$(8)^-$	20.2 min 2

† From Adopted Levels.

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

I_γ normalization: From $I(\gamma+\text{ce})(25.98\gamma)=100$.

E_γ	$I_\gamma^\dagger$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	$\alpha^\ddagger$	$I_{(\gamma+\text{ce})}^\dagger$	Comments
10.8630 11	0.00457	10.8624	5^+	0.0	3^-	[M2]	2.19×10^4	100	E_γ , Mult.: from adopted gammas.
25.98	0.00337	36.8440	$(8)^-$	10.8624	5^+	E3	2.97×10^4	100	$\alpha(\text{L})=2.416 \times 10^4$; $\alpha(\text{M})=5.54 \times 10^3$ E_γ : from (n, γ). $E_\gamma \approx 25$ keV was deduced from $E(\text{ce})=21.3$ keV and $E(\text{ce})=24.2$ keV (1962Va18).

† Absolute intensity per 100 decays.

‡ 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 (20.2 min) 1962Va18**Decay Scheme**

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
%IT=100.0

Legend

- $I_{\gamma} < 2\% \times I_{\gamma}^{max}$
—→ $I_{\gamma} < 10\% \times I_{\gamma}^{max}$
—→ $I_{\gamma} > 10\% \times I_{\gamma}^{max}$

