^{126}Sb IT decay (19.15 min) 1976Sm01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	H. Iimura, J. Katakura, S. Ohya	NDS 180, 1 (2022)	1-Oct-2021

Parent: ^{126}Sb: E=17.7 *3*; $J^{\pi}=(5^+)$; $T_{1/2}$=19.15 min *9*; %IT decay=18.6 *6*
See also ^{126}Sb β^- decay (19.15 min).

^{126}Sb Levels

E(level)	J^{π}[†]	$T_{1/2}$	Comments
0.0	(8^-)	12.35 d *6*	$T_{1/2}$: from Adopted Levels.
17.7 *3*	(5^+)	19.15 min *9*	$T_{1/2}$: from Adopted Levels.

[†] Spin and parity values are those given under the Adopted Levels.

$\gamma(^{126}Sb)$

Iγ normalization: %IT=18.6 *6* was deduced from Iγ ratios between ^{126}Sb alone source and ^{126}Sn/^{126}Sb in equilibrium source (2010Fe02). Other; 0.14 *4* (1971Or04).

E_γ[†]	I_γ[‡]	E_i(level)	J_i^{π}	E_f	J_f^{π}	Mult.	α[#]	$I_{(\gamma+ce)}$[‡]	Comments
17.7 *3*	0.00031 *9*	17.7	(5^+)	0.0	(8^-)	(E3)	3.2×10^5 *4*	100	α(L)=2.4×10^5 *3*; α(M)=5.9×10^4 *7*; α(N)=1.06×10^4 *12*; α(O)=6.5×10^2 *8*

[†] From 1976Sm01.
[‡] For absolute intensity per 100 decays, multiply by 0.186 *6*.
[#] Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

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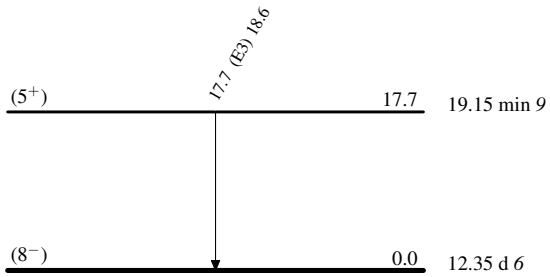
Decay Scheme

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

%IT=18.6 *6*



$^{126}_{51}Sb_{75}$