^{124}Sb β^- decay (93 s) 1969Me04

History

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

Parent: ^{124}Sb: E=10.8627 *8*; $J^\pi=5^+$; $T_{1/2}$=93 s *5*; Q(β^-)=2904.3 *15*; %β^- decay=25 *5*
1969Me04: ^{123}Sb(n,γ); Eγ, Iγ; $\gamma\gamma$ coin Compton-suppressed Ge spectrometer.
The decay scheme is that proposed by 1969Me04.

^{124}Te Levels

E(level)†	J^π‡
0.0	0^+
602.72 *4*	2^+
1248.54 *6*	4^+
1746.94 *12*	6^+
2349.5 *10*	6^+

† E(levels) are based on a least-squares fit to the Eγ's (evaluators).
‡ From Adopted Levels.

β^- radiations

E(decay)	E(level)	Iβ^-†	Log *ft*	Comments
(565.7 *18*)	2349.5	≈2	≈4.9	av Eβ=177.6 *7*
≈1190	1746.94	98	4.3	av Eβ=416.6 *7*
(1666.6 *15*)	1248.54	<5	>6.2	av Eβ=632.3 *7*

† For absolute intensity per 100 decays, multiply by 0.25 *5*.

$\gamma(^{124}Te)$

Eγ	Iγ‡	E$_i$(level)	J_i^π	E$_f$	J_f^π	Mult.†	δ†
498.4 *1*	98	1746.94	6^+	1248.54	4^+	E2	
602.72 *4*	100	602.72	2^+	0.0	0^+	E2	
645.82 *4*	≈100	1248.54	4^+	602.72	2^+	E2	+0.003 *6*
1101.0	≈2	2349.5	6^+	1248.54	4^+	E2	

† From adopted gammas.
‡ For absolute intensity per 100 decays, multiply by 0.25 *5*.

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Decay Scheme

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