

^{134}Sb β^- decay (0.78 s) 1990Fo03

Type	Author	History
Full Evaluation	A. A. Sonzogni	Citation
		NDS 103, 1 (2004)

Parent: ^{134}Sb : E=0.0; $J^\pi=(0^-)$; $T_{1/2}=0.78$ s 6; $Q(\beta^-)=8394$ 42; % β^- decay=100.01990Fo03: source obtained following ^{134}Sn β^- decay from Osiris fission fragment separator. ^{134}Te Levels

E(level) [†]	$J^\pi\ddagger$	$T_{1/2}^{\#}$	Comments
0.0	0^+	41.8 min 8	$T_{1/2}$: from Adopted Levels.
1279.04 10	2^+		
2464.38 19	2^+	<1 ns	
2631.29 16	(1) $^+$	<1 ns	
2933.63 22	2^+	<1 ns	

[†] From least-squares procedure to $E\gamma$.[‡] From Adopted Levels.

From coincidence data (1990Fo03), unless noted otherwise.

 β^- radiations

E(decay)	E(level)	$I\beta^-\dagger$	Log ft	Comments
(5.46×10 ³ 4)	2933.63	0.27 2	8.83 ^{1u} 5	av $E\beta=2379$ 20
(5.76×10 ³ 4)	2631.29	2.03 9	6.19 5	av $E\beta=2542$ 20
(5.93×10 ³ 4)	2464.38	0.21 4	9.17 ^{1u} 10	av $E\beta=2601$ 20
8.42×10 ³ 12	0.0	97.6 5	5.23 4	av $E\beta=3784$ 20
				E(decay): from 1979Ke02. Other: 8400 300 (1972Ke21).

[†] Absolute intensity per 100 decays. $\gamma(^{134}\text{Te})$ I γ normalization: Normalized by using I γ (706.3)=57% 6 in decay of 10.07-s ^{134}Sb (1990Fo03).

E γ	$I\gamma^{\ddagger}$	E i (level)	J_i^π	E f	J_f^π	Mult.	$\alpha^{\#}$	Comments
$x^{52.80\dagger}$ 20	0.03 1							
166.93 20	0.12 2	2631.29	(1) $^+$	2464.38	2^+	[M1]	0.1643	$\alpha(K)=0.1416$; $\alpha(L)=0.01819$; $\alpha(M)=0.00361$; $\alpha(N+..)=0.00086$
$x^{921.5\dagger}$ 5	0.08 2							
$x^{1117.3\dagger}$ 5	0.08 2							
1185.6 5	0.06 2	2464.38	2^+	1279.04	2^+			
1279.01 10	1.1 5	1279.04	2^+	0.0	0^+	[E2]	0.00086	$\alpha(K)=0.00074$
$x^{1325.6\dagger}$ 5	0.018 5							
1352.14 20	0.93 5	2631.29	(1) $^+$	1279.04	2^+			
1654.57 20	0.26 2	2933.63	2^+	1279.04	2^+			
$x^{1710.2}$ 4	0.03 1							
2464.29 30	0.29 2	2464.38	2^+	0.0	0^+			
2631.47 30	0.96 7	2631.29	(1) $^+$	0.0	0^+			
2934.0 10	0.013 4	2933.63	2^+	0.0	0^+			

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$^{134}\text{Sb} \beta^-$ decay (0.78 s) **1990Fo03 (continued)** $\gamma(^{134}\text{Te})$ (continued)

E_γ	I_γ^\ddagger	$E_i(\text{level})$	E_γ	I_γ^\ddagger	$E_i(\text{level})$	E_γ	I_γ^\ddagger	$E_i(\text{level})$
$^{x}3630.4$ 6	0.04 1		$^{x}6279.6$ 10	0.07 2		$^{x}6733.2$ 15	0.04 1	
$^{x}3660.2$ 6	0.06 2		$^{x}6450.9$ 10	0.12 2		$^{x}6820.4$ 15	0.06 2	
$^{x}4103.2$ 7	0.06 2		$^{x}6624.0$ 10	0.07 2				
$^{x}5645.0$ 10	0.09 2		$^{x}6686.7$ 10	0.14 3				

[†] Possibly due to ^{134}Sn .[‡] 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 multipolarities, and mixing ratios, unless otherwise specified.^x γ ray not placed in level scheme.

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