

^{119}Sb ε decay 1957OI05

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. M. Symochko, E. Browne, J. K. Tuli		NDS 110,2945 (2009)	1-Dec-2008

Parent: ^{119}Sb : E=0; $J^\pi=5/2^+$; $T_{1/2}=38.19$ h 22; $Q(\varepsilon)=591$ 8; % ε decay=100.0

Additional information 1.

1957OI05: activity: daughter from Sb(d,xn) and Sn(α ,xn); scin.

Measured γ , β , ce, $\gamma(t)$, $\gamma X(t)$.

 ^{119}Sn Levels

E(level)	J^π [†]	T _{1/2}	Comments
0	1/2 ⁺	stable	
23.871 8	3/2 ⁺	18.03 ns 7	T _{1/2} : From Adopted Levels.

[†] From Adopted Levels.

 ε radiations

E(decay)	E(level)	I ε [†]	Log ft	Comments
(567 8)	23.871	100	5.061	$\varepsilon K=0.8510$; $\varepsilon L=0.11831$ 14; $\varepsilon M+=0.03069$ 4

[†] Absolute intensity per 100 decays.

 $\gamma(^{119}\text{Sn})$

E γ [‡]	I γ ^{#@}	E _i (level)	J $^\pi_i$	E _f	J $^\pi_f$	Mult. [‡]	δ [‡]	α [†]	I $_{(\gamma+ce)}$ [@]	Comments
23.870 8	16.5 2	23.871	3/2 ⁺	0	1/2 ⁺	M1+E2	<0.003	5.06 8	100	$\alpha(\text{exp})=6.3$ 4 (1957OI05) $\alpha(L)=4.09$ 6; $\alpha(M)=0.803$ 12; $\alpha(N+..)=0.1636$ 23 $\alpha(N)=0.1506$ 22; $\alpha(O)=0.01291$ 19

[‡] Additional information 2.

[‡] From Adopted Gammas.

From I($\gamma+ce$)=100 and $\alpha=5.06$ 8.

@ Absolute intensity per 100 decays.

^{119}Sb ε decay 1957O105Decay SchemeIntensities: $I_{(\gamma+ce)}$ per 100 parent decays