^{128}Sb IT decay (10.4 min) 1975Im01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Zoltan Elekes and Janos Timar	NDS 129,191 (2015)	28-Feb-2015

Parent: ^{128}Sb: E=0.0+x; $J^\pi=5^+$; $T_{1/2}$=10.4 min *18*; %IT decay=3.6 *10*

^{128}Sb-%IT decay: branching ratio of isomeric transition is deduced from the intensity ratio of 59.07 min (equilibrium of ^{128}Sb isomer with ^{128}Sn) and 9.01 h components grown from chemically purified ^{128}Sn (1975Im01). Other: %IT=3.1 *2* (1974Fo07).

1975Im01: ^{235}U(n,F) chemical separation; Ge detector, $\gamma\gamma$.

^{128}Sb Levels

E(level)	J^π †	$T_{1/2}$ †	Comments
0.0	8^-	9.05 h *4*	
0.0+x	5^+	10.4 min *2*	%IT=3.6; %β^-=96.4 E(level): energy difference between this level and ground state is estimated to be ≤20 keV from $T_{1/2}$ systematics for E3 transitions of even Sb isotopes (1975Im01). The fact that no K x ray of ^{128}Sb is found in IT decay partially supports the above result.

† From Adopted Levels.

$\gamma(^{128}$Sb)

E_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.	$I_{(\gamma+ce)}$ †	Comments
(<20.0)	0.0+x	5^+	0.0	8^-	[E3]	100	Mult.: from spin and parity change of relevant states.

† For absolute intensity per 100 decays, multiply by 0.036 *10*.