^{122}La ε decay 1987GeZY

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	T. Tamura	NDS 108, 455 (2007)	30-Sep-2006

Parent: ^{122}La: E=0.0; $T_{1/2}$=8.6 s *5*; Q(ε)=10070 *SY*; %ε+%β^+ decay=100.0
1987GeZY: ^{92}Mo(^{36}Ar,xnyp) ^{122}La He-jet, mass separation.
1992Mo13: ^{92}Mo(^{35}Cl,2p3n) ^{122}La, $\beta\gamma$(t); measured $T_{1/2}$.

^{122}Ba Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	0^+		
196.1 *3*	2^+	297 ps *26*	B(E2)↑=2.81 *28* $T_{1/2}$: from $\beta\gamma$ delayed coincidence using plastic and BaF_2 scintillators (1992Mo13). B(E2) from $T_{1/2}$.
568.8 *5*	(4^+)		
939.5 *3*			
1167.8 *5*	(3^+)		
1271.8? *11*			

γ(^{122}Ba)

E_γ †	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α #	Comments
196.1 *3*	196.1	2^+	0.0	0^+	(E2)	0.1853	α(K)=0.1432; α(L)=0.0332; α(M)=0.00705; α(N+..)=0.00184 Mult.: from adopted gammas.
372.7 *3*	568.8	(4^+)	196.1	2^+			
703‡ *1*	1271.8?		568.8	(4^+)			
x742.8							
939.5 *3*	939.5		0.0	0^+			
971.7 *3*	1167.8	(3^+)	196.1	2^+			

† From 1987GeZY; ΔE is assigned by evaluator; no detailed data are given by 1987GeZY.
‡ Seen in $\gamma\gamma$-coincidence only.
# 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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Decay Scheme