

^{121}La ε decay [1988Se08](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. Ohya	NDS 111, 1619 (2010)	20-Jan-2009

Parent: ^{121}La : E=0.0; $T_{1/2}$ =5.3 s 2; $Q(\varepsilon)$ =8342 SY; % ε +% β^+ decay=100.0

Identification: $^{92}\text{Mo}(\text{}^{32}\text{S},\text{p}2\text{n})$ E=150 MeV, on-line ms, parent of ^{121}Ba , grandparent of ^{121}Cs .

 ^{121}Ba Levels

E(level)	J^π [†]	$T_{1/2}$ [†]
0.0	5/2 ⁽⁺⁾	29.7 s 15
134.0 2	(7/2 ⁺)	
138.7 2	(5/2 ⁻)	
213.3 4		
236.6 5		
303.6 3	(9/2 ⁺)	
378.9 3	(3/2 ⁺)	

[†] From Adopted Levels.

 $\gamma(^{121}\text{Ba})$

E_γ	I_γ [†]	$E_i(\text{level})$	J_i^π	E_f	J_f^π
97.8 4	57 3	236.6		138.7	(5/2 ⁻)
134.0 2	73 3	134.0	(7/2 ⁺)	0.0	5/2 ⁽⁺⁾
138.7 2	100	138.7	(5/2 ⁻)	0.0	5/2 ⁽⁺⁾
169.5 3	15 2	303.6	(9/2 ⁺)	134.0	(7/2 ⁺)
213.3 [†] 4	57 3	213.3		0.0	5/2 ⁽⁺⁾
239.8 4	55 6	378.9	(3/2 ⁺)	138.7	(5/2 ⁻)
303.7 3	49 3	303.6	(9/2 ⁺)	0.0	5/2 ⁽⁺⁾
^x 361.9 4	26 3				
^x 368.1 4	19 2				
379.1 3	38 3	378.9	(3/2 ⁺)	0.0	5/2 ⁽⁺⁾

[†] From [1989IcZZ](#).

^x γ ray not placed in level scheme.

^{121}La ϵ decay 1988Se08

Decay Scheme

Intensities: Relative I_γ

Legend

- $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
- $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
- $I_\gamma > 10\% \times I_\gamma^{\text{max}}$

