^{126}Ce ε decay 1994AsZY,1988GeZR

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	H. Iimura, J. Katakura, S. Ohya	NDS 180, 1 (2022)	1-Oct-2021

Parent: ^{126}Ce: E=0.0; $J^\pi=0^+$; $T_{1/2}$=51.0 s *4*; Q(ε)=4150 *90*; %ε+%β^+ decay=?

Decay scheme was not proposed by authors.

1994AsZY: ^{92}Mo(^{36}Ar,2p) E=195 MeV, on-line mass separation; γ, K X ray; $\gamma\gamma$, $\beta\gamma$(t).

1988GeZR,1987GeZX: $^{92-96}$Mo(^{35}Cl,x) or (^{36}Ar,x). E=170-210 MeV. He-jet on-line mass separator. Xγ-, $\gamma\gamma$.

Other: 1978Bo32: ^{32}S+^{96}Ru, ^{32}S+^{98}Ru. E=190 MeV. Measured $T_{1/2}$=50 s *6*. Iγ/K X ray≤1%.

^{126}La Levels

E(level)	J^π	$T_{1/2}$
0.0+v	(4,5)	54 s *2*
0.0+w	(0^-,1,2^-)	<50 s

γ(^{126}La)

E_γ †	E_i(level)	E_γ †	E_i(level)	E_γ †	E_i(level)	E_γ †	E_i(level)
x18.8		x116.3‡		x169.1		x396.3	
x55.5		x120.5‡		x188.7‡		x427.0	
x59.8		x136.0‡		x206.7		x442.0	
x61.1‡		x141.6		x219.5			
x81.7‡		x146.6		x277.4			
x114.2		x160.3		x321.7			

† From 1994AsZY.

‡ Also reported by 1988GeZR. A cascade relation of 61-136-189-keV γ's was given by the authors.

x γ ray not placed in level scheme.