^{127}La β^+ decay (3.7 min) 1978Bo32

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	A. Hashizume	NDS 112, 1647 (2011)	1-Oct-2009

Parent: ^{127}La: E=14.2 *4*; J^π=(3/2$^+$); $T_{1/2}$=3.7 min *4*; Q(β^+)=4920 *28*; %β^+ decay=100.0
^{98}Ru+^{32}S E=190 MeV; on-line mass separation; semi γ, x-ray; plastic β.
The decay scheme is based on that of ^{127}La β^+ decay (5.1 min).

^{127}Ba Levels

E(level)[†]	J^π[‡]	$T_{1/2}$
0.0	1/2$^+$	12.7 min *4*
56.2 *5*	3/2$^+$	
81.2 *7*	(5/2)$^+$	

[†] From a least-squares fit to E_γ's.
[‡] From Adopted Levels.

γ(^{127}Ba)

E_γ[†]	I_γ[†‡]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[@]	α[#]	Comments
25.0 *5*	3.0 *6*	81.2	(5/2)$^+$	56.2	3/2$^+$	M1	8.3 *6*	α(L)=6.6 *5*; α(M)=1.36 *9*; α(N+..)=0.341 *22* α(N)=0.293 *19*; α(O)=0.045 *3*; α(P)=0.00319 *21*
56.2 *5*	12.5 *13*	56.2	3/2$^+$	0.0	1/2$^+$	M1(+E2)	10 *6*	α(K)=5.0 *6*; α(L)=4 *4*; α(M)=0.9 *9*; α(N+..)=0.22 *19* α(N)=0.20 *17*; α(O)=0.025 *22*; α(P)=0.000271 *24*

[†] From 1978Bo32.
[‡] Relative to I(Ba K x-ray)=100.
[#] Theoretical conversion coefficients are calculated using BrIcc code for the multipolarity indicated.
[@] From (2002Sh01) in 5.1 m decay.

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Decay Scheme

Intensities: Relative I_γ