^{86}Sr(^{3}He,$\alpha\gamma$) 1972Bu13

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen	NDS 116, 1 (2014)	31-Dec-2013

1972Bu13 (also 1975Po12): E=17 MeV, Ge(Li) detectors, measured $\alpha\gamma$ coincidences at $\theta(\gamma)$=90° for $\theta(\alpha)$=−45° to 45°, lifetimes by DSAM.

^{85}Sr Levels

E(level)	J$^{\pi}$[†]	T$_{1/2}$[‡]	Comments
0	9/2$^+$		
234.3 *18*	1/2$^-$	67.63 min *4*	E(level): this level should correspond to 1/2$^-$ isomer according to Adopted Levels.
741.4 *2*	3/2$^-$	0.12 ps *8*	
766.0 *3*	5/2$^+$	>7 ps	
1148.8 *2*	3/2$^-$	0.11 ps *5*	
1650.7 *3*	1/2$^-$,3/2$^-$	0.2 ps *+3−1*	

[†] From Adopted Levels.
[‡] From 1972Bu13, DSA method.

γ(^{85}Sr)

E$_\gamma$[†]	E$_i$(level)	J$_i^{\pi}$	E$_f$	J$_f^{\pi}$
234.3 *18*	234.3	1/2$^-$	0	9/2$^+$
504.4 *20*	741.4	3/2$^-$	234.3	1/2$^-$
531.7 *24*	766.0	5/2$^+$	234.3	1/2$^-$
911.8 *20*	1148.8	3/2$^-$	234.3	1/2$^-$
1414 *3*	1650.7	1/2$^-$,3/2$^-$	234.3	1/2$^-$

[†] From level energies, no γ energies are given by 1972Bu13.

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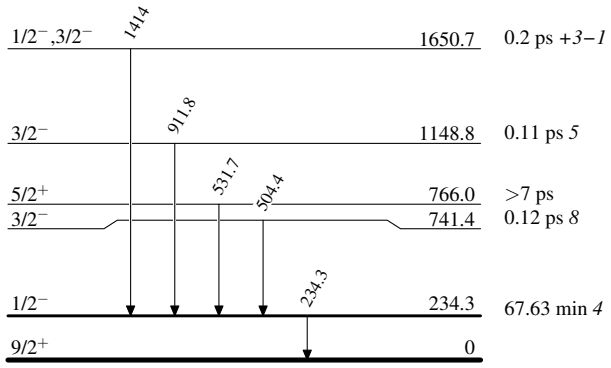
Level Scheme



$^{85}_{38}Sr_{47}$