^{76}Ge(^{12}C,p2nγ) 1983Lu05

History

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

1983Lu05: E=45 MeV, measured Eγ, Iγ, $\gamma\gamma$, lifetimes by recoil-distance Doppler shift.
1983Lu05 adopted level scheme from 1982Ze02.

^{85}Rb Levels

E(level)	J$^\pi$‡	T$_{1/2}$†	Comments
0.0	5/2$^-$		
514.1	9/2$^+$	1.015 μs *1*	T$_{1/2}$: from Adopted Levels.
1293.5	(13/2$^+$)	8.4 ps *10*	
2477.1	(17/2$^+$)	5.2 ps *12*	
2826.8	(15/2$^+$)		
3054.6	(17/2$^+$)	>69 ps	
3491.5	(21/2$^+$)	5.8 ps *17*	
4135.9	(23/2)	6.2# ps *21*	
4757.6	(25/2)	<1.2# ps	
5419.8	(27/2)		

† From recoil-distance Doppler-shift method (1983Lu05).
‡ As given by 1983Lu05 based on observed γ cascade and J^π assignments from 1982Ze02.
# Effective half-life, not corrected for side feeding.

γ(^{85}Rb)

Eγ	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Mult.	Comments
227.8	3054.6	(17/2$^+$)	2826.8	(15/2$^+$)		
349.7	2826.8	(15/2$^+$)	2477.1	(17/2$^+$)		
436.9†	3491.5	(21/2$^+$)	3054.6	(17/2$^+$)		
514.1	514.1	9/2$^+$	0.0	5/2$^-$	M2	Mult.: from Adopted Gammas.
621.7	4757.6	(25/2)	4135.9	(23/2)		
644.4	4135.9	(23/2)	3491.5	(21/2$^+$)		
662.2†	5419.8	(27/2)	4757.6	(25/2)		
779.4	1293.5	(13/2$^+$)	514.1	9/2$^+$		
1014.4	3491.5	(21/2$^+$)	2477.1	(17/2$^+$)		
1183.6	2477.1	(17/2$^+$)	1293.5	(13/2$^+$)		

† Placement of transition in the level scheme is uncertain.

Legend

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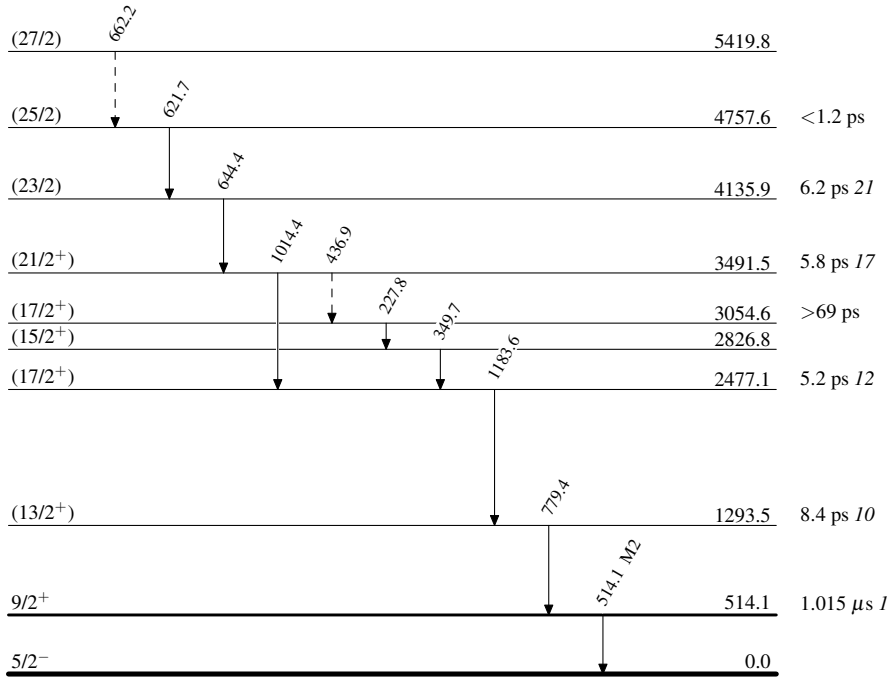
Level Scheme

– – – – – – ► γ Decay (Uncertain)



$^{85}_{37}Rb_{48}$