^{60}Ni(μ^-,νnγ) 2006Me08

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia	NDS 151, 1 (2018)	1-Apr-2018

The μ^- beam obtained from decay of π^- beam at 90 MeV/c. Measured Iγ, $\gamma\gamma$, γ-p using two HPGe detectors at TRIUMF facility.

^{59}Co Levels

E(level)†	J$^\pi$†	Percent Yield of level in isotopic target‡	Comments
0.0	7/2$^-$		
1099.26	3/2$^-$	14 *3*	Known cascading=3% *1*.
1190.45	9/2$^-$	4 *3*	
1291.61	3/2$^-$	7 *5*	
1434.26	1/2$^-$	<16	
1459.5	11/2$^-$		
1481.72	5/2$^-$	10 *5*	

† From Adopted Levels.
‡ Corrected for known cascading.

γ(^{59}Co)

E$_\gamma$†	Percent γ-ray yield	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Comments
142.65		1434.26	1/2$^-$	1291.61	3/2$^-$	Percent γ-ray yield: energy below threshold.
334.8	<0.9	1434.26	1/2$^-$	1099.26	3/2$^-$	
382.5	<0.5	1481.72	5/2$^-$	1099.26	3/2$^-$	
1099.25	4.3 *6*	1099.26	3/2$^-$	0.0	7/2$^-$	
1189.6	1.1 *8*	1190.45	9/2$^-$	0.0	7/2$^-$	
1291.59	1.6 *12*	1291.61	3/2$^-$	0.0	7/2$^-$	
1459.61	<1	1459.5	11/2$^-$	0.0	7/2$^-$	
1481.7	2.6 *9*	1481.72	5/2$^-$	0.0	7/2$^-$	

† From Adopted Gammas.

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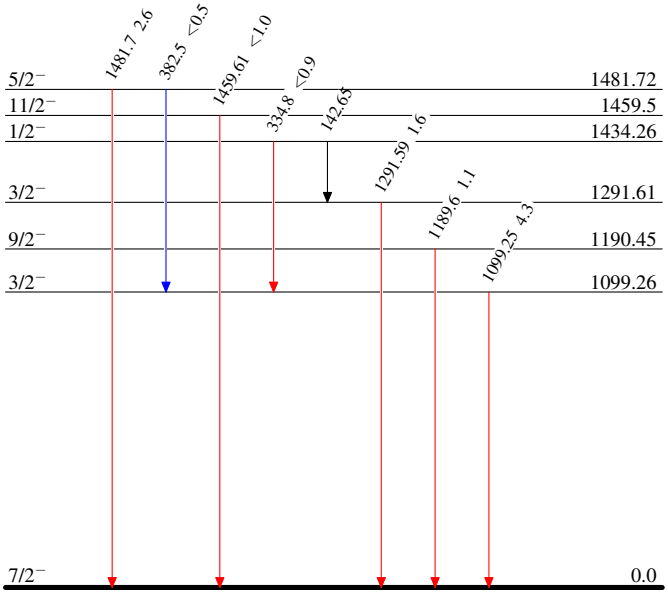
Level Scheme

Intensities: Percent γ-ray yield per muon capture

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



$^{59}_{27}Co_{32}$