^{50}Cr(^{58}Ni,pα2nγ) 2002Li45

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	ENSDF	1-Jul-2006

2002Li45: E=225 MeV. Measured Eγ, Iγ, $\gamma\gamma$, $\gamma(\theta)$ (DCO) using the GAMMASPHERE array comprising of 78 Compton-suppressed Ge detectors with the microball of 95 CsI scintillators and the neutron shell, an array of 30 liquid scintillator detectors.

^{101}In Levels

E(level)	J$^\pi$
0[†]	(9/2$^+$)
1309.7[†] *3*	(13/2$^+$)
1651.5[†] *4*	(17/2$^+$)
2010.9[†] *5*	(19/2$^+$)
3258.8[‡] *7*	(21/2$^+$)
4394.8[‡] *12*	(23/2$^-$)
4781.6[‡] *13*	(25/2$^-$)
4934.6[†] *7*	(23/2$^+$)
6074.2[†] *10*	

[†] Band(A): γ cascade based on g.s.
[‡] Band(B): γ cascade.

$\gamma(^{101}In)$

E$_\gamma$	I$_\gamma$	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Comments
[x]334.9 *5*	9 *2*					
341.8 *2*	94 *5*	1651.5	(17/2$^+$)	1309.7	(13/2$^+$)	A$_2$=+0.2 *1*
359.4 *3*	51 *3*	2010.9	(19/2$^+$)	1651.5	(17/2$^+$)	A$_2$=−0.4 *2*
386.8 *5*	8 *2*	4781.6	(25/2$^-$)	4394.8	(23/2$^-$)	
1136 *1*	14 *5*	4394.8	(23/2$^-$)	3258.8	(21/2$^+$)	
1139.6 *7*	10 *3*	6074.2		4934.6	(23/2$^+$)	
1247.9 *4*	14 *2*	3258.8	(21/2$^+$)	2010.9	(19/2$^+$)	A$_2$=−0.2 *3*
1309.7 *3*	100 *10*	1309.7	(13/2$^+$)	0	(9/2$^+$)	A$_2$=+0.3 *1*
2923.6 *5*	11 *3*	4934.6	(23/2$^+$)	2010.9	(19/2$^+$)	A$_2$=+0.4 *2*

[x] γ ray not placed in level scheme.

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Level Scheme

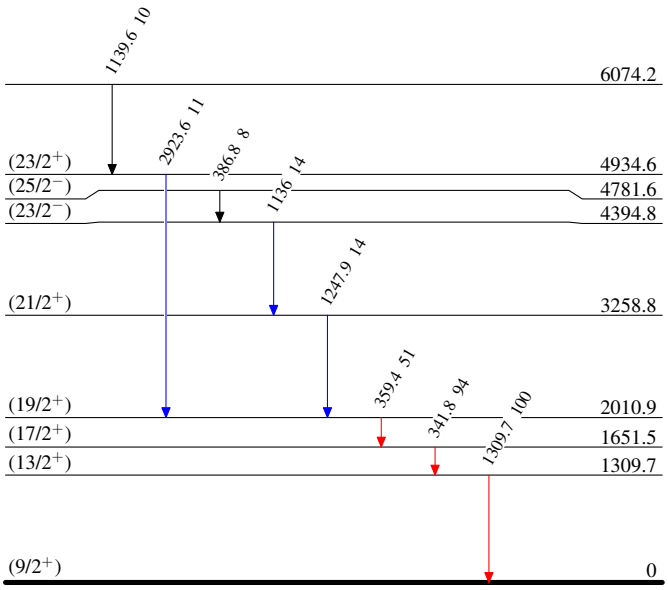
Intensities: Relative I_γ

Legend

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

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

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



$^{101}_{49}In_{52}$

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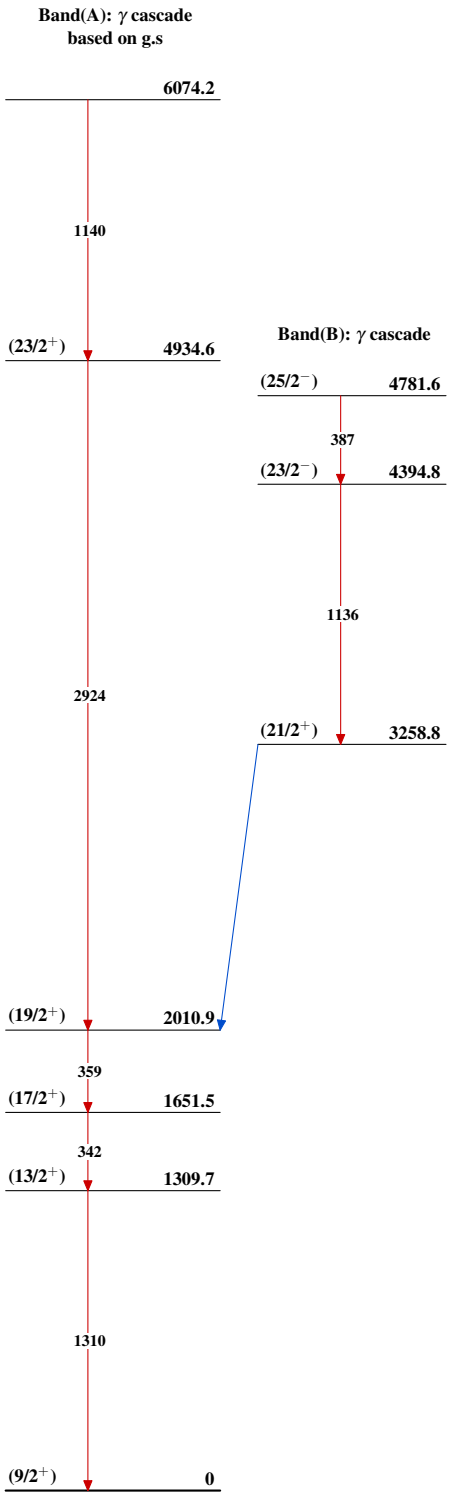

$^{101}_{49}In_{52}$