

$^{92}\text{Mo}(^{19}\text{F},2\text{p}2\text{n}\gamma)$ 1981An15

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 109, 1383 (2008)	1-Mar-2008

E=65-100 MeV. Measured excitation functions, $\gamma(\theta)$, $\gamma\gamma$, $\theta=0^\circ$, 35° , 55° and 90° at E=70 MeV.

 ^{107}In Levels

E(level)	J^π [†]	Comments
0	9/2 ⁺	
1001.4	11/2 ⁺	
1415.3	13/2 ⁺	
1854.1	17/2 ⁺	
2004.5	19/2 ⁺	
2320.7	(23/2) [‡]	
2795.7	(23/2,25/2) [‡]	
3283.8	(21/2 ⁻) [‡]	J^π : in conflict with 19/2 ⁻ in Adopted Levels.
3442.7	(23/2 ⁻) [‡]	J^π : in conflict with (21/2) in Adopted Levels.
3646.7	(25/2 ⁻) [‡]	
4040.0	(27/2 ⁻) [‡]	
4651.8	(29/2 ⁻) [‡]	

[†] From Adopted Levels, except where noted otherwise.

[‡] From 1981An15 based on systematics, the assumption that $\Delta J > 0$ as the excitation energy increases, and core-coupling model arguments.

 $\gamma(^{107}\text{In})$

E_γ	I_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [†]	δ
150.4	61.3	2004.5	19/2 ⁺	1854.1	17/2 ⁺	E2	
158.9	5.5	3442.7	(23/2 ⁻)	3283.8	(21/2 ⁻)		
204.0	14.0 [‡]	3646.7	(25/2 ⁻)	3442.7	(23/2 ⁻)		
316.2	3.3	2320.7	(23/2)	2004.5	19/2 ⁺		
393.3	11.9	4040.0	(27/2 ⁻)	3646.7	(25/2 ⁻)		
413.9	24.4	1415.3	13/2 ⁺	1001.4	11/2 ⁺	D+Q	-0.13 3
438.8	100	1854.1	17/2 ⁺	1415.3	13/2 ⁺	E2	
611.8	3.5	4651.8	(29/2 ⁻)	4040.0	(27/2 ⁻)		
791.2	17.6 [‡]	2795.7	(23/2,25/2)	2004.5	19/2 ⁺		
1001.4	27.2	1001.4	11/2 ⁺	0	9/2 ⁺		
1415.3	74.0	1415.3	13/2 ⁺	0	9/2 ⁺	Q	
1429.7	11.7	3283.8	(21/2 ⁻)	1854.1	17/2 ⁺		
1438.2	8.3	3442.7	(23/2 ⁻)	2004.5	19/2 ⁺		

[†] From $\gamma(\theta)$. Mult=Q for $E_\gamma < 500$ are assumed to be E2.

[‡] Line not resolved from impurity line. I_γ is from $\gamma\gamma$ data.

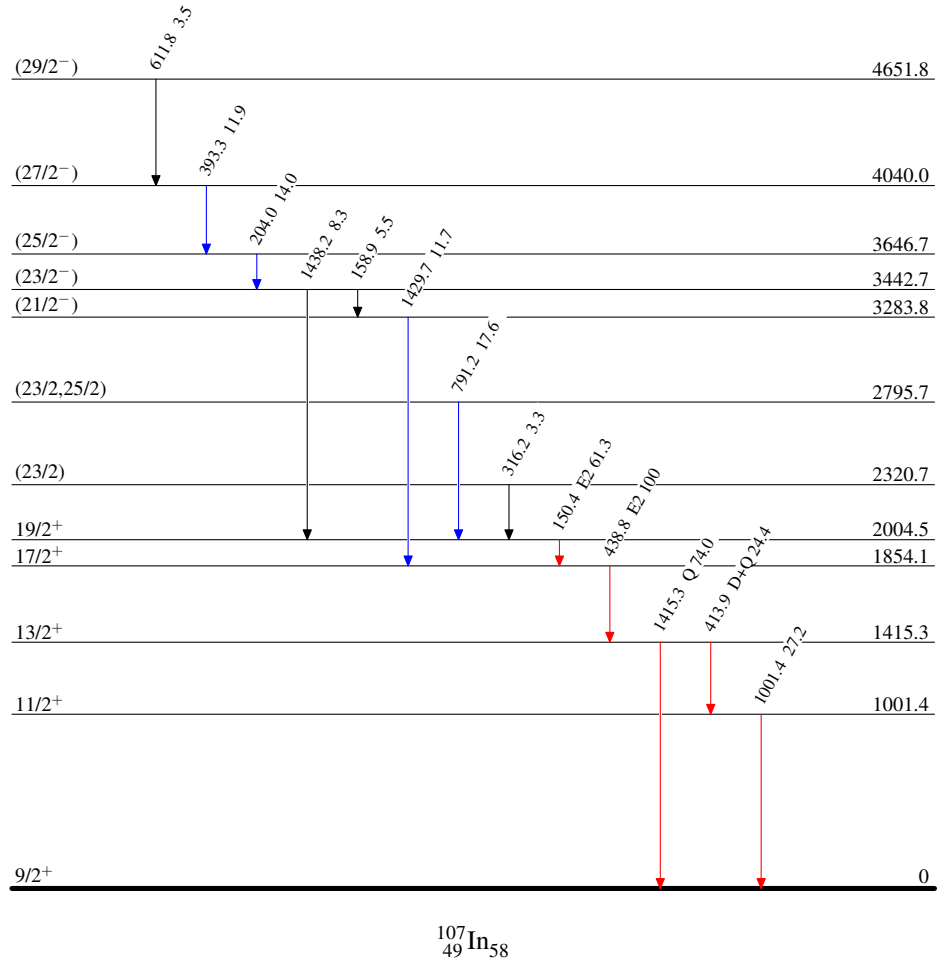
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Level Scheme

Intensities: Type not specified

Legend

- $\longrightarrow$ $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
 $\longrightarrow$ $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
 $\longrightarrow$ $I_\gamma > 10\% \times I_\gamma^{\text{max}}$

 $^{107}_{49}\text{In}_{58}$