

$^{106}\text{Cd}(^{12}\text{C},2\text{n}\gamma)$ [1981Gi13](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 111, 717 (2010)	1-Dec-2009

E(^{12}C)=48-61 MeV, max. Production yield: 52 MeV, enriched target: 64%.Measured: $\gamma(\theta)$, $\gamma\gamma(\theta)$, Ge(Li) detectors.Level scheme based on $\gamma\gamma$ coincidence has been constructed by [1981Gi13](#). ^{116}Xe Levels

E(level)	J^π [†]	Comments
0	0 ⁺	
393.5 2	2 ⁺	
917.8 2	4 ⁺	
1532.9 3	6 ⁺	
2210.4 6	(8 ⁺)	
2961.4? 6	(10 ⁺)	E(level): not confirmed by 1998Se08 .
3744?	(12 ⁺)	

† From [1981Gi13](#) $\gamma(\theta)$ and syst, g.s. band members. $\gamma(^{116}\text{Xe})$

E_γ	I_γ	E_i (level)	J_i^π	E_f	J_f^π	Mult.	Comments
393.5 2	100	393.5	2 ⁺	0	0 ⁺	E2	Mult.: from $A_2=0.11$ 3, $A_4=-0.04$ 4, Q assumed to be E2.
524.3 2	95 8	917.8	4 ⁺	393.5	2 ⁺	E2	Mult.: from $A_2=0.30$ 4, $A_4=-0.16$ 8, Q assumed to be E2.
615.1 3	91 15	1532.9	6 ⁺	917.8	4 ⁺	E2	Mult.: from $A_2=0.31$ 6, $A_4=0.02$ 8, Q assumed to be E2.
677.5 6	77 10	2210.4	(8 ⁺)	1532.9	6 ⁺		
751.0 6	43 10	2961.4?	(10 ⁺)	2210.4	(8 ⁺)		
783	≈ 30	3744?	(12 ⁺)	2961.4?	(10 ⁺)		

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Legend

Level Scheme
Intensities: Relative I_γ

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

