

$^{48}\text{Ti}(^{12}\text{C},2\text{n}\gamma)$ **1976Ba10**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Caroline D. Nesaraja, Scott D. Geraedts and Balraj Singh		NDS 111,897 (2010)	12-Jan-2010

E=26 to 48 MeV.

Measured: γ , $\gamma(\theta)$, $\gamma\gamma$, directional correlation of γ 's from oriented nuclei. ^{58}Ni Levels

E(level)	J $^{\pi \dagger}$	Comments
0.0	0 $^+$	
1454	2 $^+$	
2459	4 $^+$	
3619	4 $^+$	
4381	(5 $^+$)	
5125	6 $^+$	
5662?	7	E(level): this level is questionable and omitted In Adopted Levels due to the reassignment of 537 γ from 6604,8 $^+$ level In recent high-spin studies.

[†] From Adopted Levels. $\gamma(^{58}\text{Ni})$

E $_{\gamma}$	I $_{\gamma}^{\dagger}$	E $_i$ (level)	J $^{\pi}_i$	E $_f$	J $^{\pi}_f$	Mult. ‡	δ^{\ddagger}	Comments
537 [#]	30	5662?	7	5125	6 $^+$	D+Q	-0.20 +5-9	E $_{\gamma}$: this γ is assigned to a 6604,8 $^+$ level In recent high-spin studies.
744	35	5125	6 $^+$	4381	(5 $^+$)	D+Q		I $_{\gamma}$: from $\gamma\gamma$ uncertainty \approx 20% due to $\gamma(\theta)$.
762	40	4381	(5 $^+$)	3619	4 $^+$	(D)		δ : $\delta=-2.5 +6-8$ or $-0.20 +10-15$.
1005	90	2459	4 $^+$	1454	2 $^+$			δ : $\delta=-4 +1-6$ or $+0.03 +6-8$.
1160	60	3619	4 $^+$	2459	4 $^+$			
1454	100	1454	2 $^+$	0.0	0 $^+$			
1922 [#]		4381	(5 $^+$)	2459	4 $^+$			I $_{\gamma}$: weak G.

[†] Relative values at E=35 MeV.[‡] From $\gamma(\theta)$ data.[#] Placement of transition in the level scheme is uncertain.

