

$^{56}\text{Fe}(\alpha, 2n\gamma)$ **1976Ba10**

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

E=18-24 MeV.

Measured: $\sigma(E)$, G. ^{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.

 \dagger Adopted values. $\gamma(^{58}\text{Ni})$

E $_{\gamma}$	I $_{\gamma}^{\dagger}$	E $_i$ (level)	J $^{\pi}_i$	E $_f$	J $^{\pi}_f$	Comments
537 ‡	10	5662?	7	5125	6 $^{+}$	E $_{\gamma}$: this γ is assigned to a 6604,8 $^{+}$ level In recent high-spin studies.
744	10	5125	6 $^{+}$	4381	(5 $^{+}$)	
762	25	4381	(5 $^{+}$)	3619	4 $^{+}$	
1005	75	2459	4 $^{+}$	1454	2 $^{+}$	
1160	25	3619	4 $^{+}$	2459	4 $^{+}$	
1454	100	1454	2 $^{+}$	0.0	0 $^{+}$	

 \dagger Relative at E(α)=24 MeV. \ddagger Placement of transition in the level scheme is uncertain.

