

${}^{50}\text{Cr}({}^{12}\text{C},2\text{p}\gamma)$ 1975Ki16

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 114, 1849 (2013)	31-Dec-2012

$E({}^{12}\text{C})=26\text{-}48$ MeV. Measured $\gamma(\theta)$, $\gamma\gamma$. Enriched target (99%), Ge(Li) detectors (1975Ki16).
 1975Ki16 also studied the ${}^{58}\text{Ni}(\alpha,2\text{p}\gamma)$ $E\alpha=15\text{-}25$ MeV and ${}^{46}\text{Ti}({}^{16}\text{O},2\text{p}\gamma)$ $E({}^{16}\text{O})=30\text{-}60$ MeV reactions.

 ${}^{60}\text{Ni}$ Levels

E(level)	J^π [†]	Comments
0.0	0 ⁺	
1332.0 10	2 ⁺	
2159.0 15	2 ⁺	
2504.0 15	4 ⁺	
2626.0 18	3 ⁺	
3119.0 15	4 ⁺	
4261.1 18	6 ⁺	J^π : J=6 from $\gamma(\theta)$ and DCO ratio.
5344.1 20	7 ⁻	J^π : J=7 from $\gamma(\theta)$ and DCO ratios assuming $J \geq J(4262)$.
6806.1 23	9 ⁻	J^π : J=9 from $\gamma(\theta)$ and DCO ratios if $J(5345)=7$ and $J(4262)=6$.

[†] From Adopted Levels data set.

 $\gamma({}^{60}\text{Ni})$

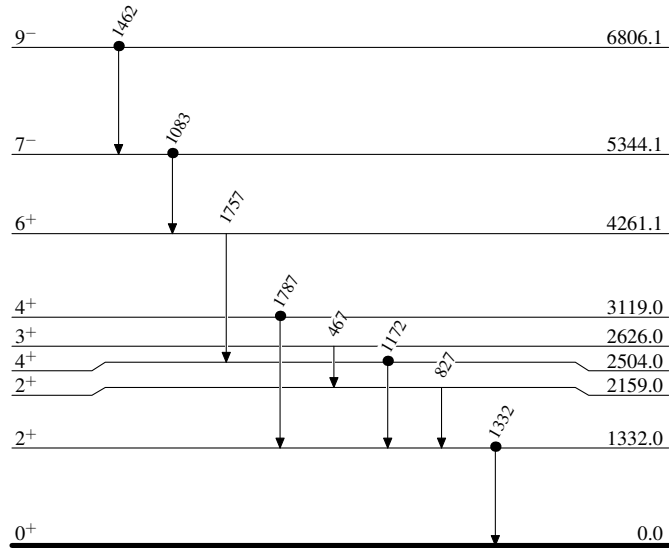
E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
467 1	2626.0	3 ⁺	2159.0	2 ⁺
827 1	2159.0	2 ⁺	1332.0	2 ⁺
1083 1	5344.1	7 ⁻	4261.1	6 ⁺
1172 1	2504.0	4 ⁺	1332.0	2 ⁺
1332 1	1332.0	2 ⁺	0.0	0 ⁺
1462 1	6806.1	9 ⁻	5344.1	7 ⁻
1757 1	4261.1	6 ⁺	2504.0	4 ⁺
1787 1	3119.0	4 ⁺	1332.0	2 ⁺

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Legend

Level Scheme

● Coincidence

 $^{60}_{28}\text{Ni}_{32}$