

$^{50}\text{Cr}(\alpha, \alpha'\gamma)$ **1977Ev03**

Type	Author	Citation	History Literature Cutoff Date
Full Evaluation	Jun Chen and Balraj Singh	NDS 157, 1 (2019)	15-Apr-2019

1977Ev03: α =23.5, 27.2 MeV beams from the Munich MP tandem. Enriched target. Measured $E\gamma$, $I\gamma$ and $\gamma\gamma$ -coin, $\theta=\pm 90^\circ$, with Ge(Li) detectors.

Others:

1976GiZW (meeting abstract): $E=19$ MeV. Measured $\alpha\gamma$ -coin.

1973Sa10: $E=12.2, 13.2, 14.2$ MeV. Measured $E\gamma$, $\gamma\gamma$ -coin. Three γ rays (783, 1098 and 1283) in a cascade observed.

 ^{50}Cr Levels

E(level)	J $^\pi$
0.0	0 $^+$
783.3	2
1881.3	3
3164.1	4
3826.0	7
4745.3	6
6341.8	8

 $\gamma(^{50}\text{Cr})$

E_γ [†]	I_γ [‡]	E_i (level)	E_f	J_f^π
661.9	6	3826.0	3164.1	
783.3	2	783.3	0.0	0 $^+$
1098.1	2	100	1881.3	783.3
1282.7	2	58	12	3164.1
1581.2	5	17.5	50	4745.3
1596.5	5	13	5	6341.8

[†] From **1977Ev03**.

[‡] Average of 23.5-MeV and 27.2-MeV data from **1977Ev03**, except for 1597γ , where no data for 23.5 MeV are available.

