

$^{163}\text{Dy}({}^3\text{He},\alpha\gamma)$ 1994Gu04

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	N. Nica	NDS 195,1 (2024)	19-Sep-2023

(${}^3\text{He},\alpha\gamma$) at 45 MeV. Measured α - γ coincidences with particle telescopes, and 28 NaI and 2 Ge γ detectors. The intraband γ transitions were assigned to ^{162}Dy based on their energy agreement with transitions previously assigned this nuclide.

 ^{162}Dy Levels

See ^{162}Dy Adopted Levels for band assignments.

<u>E(level)</u>	<u>J^π</u>
0	0^+
80.7	2^+
265.7	4^+
548.6	6^+
921.0	8^+
1375.2	10^+
1901.1	12^+

 $\gamma(^{162}\text{Dy})$

<u>E_γ</u>	<u>I_γ</u>	<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>
(80.7)		80.7	2^+	0	0^+
185.0	687 21	265.7	4^+	80.7	2^+
282.9	392 16	548.6	6^+	265.7	4^+
372.4	131 11	921.0	8^+	548.6	6^+
454.2	30 7	1375.2	10^+	921.0	8^+
525.9	7 4	1901.1	12^+	1375.2	10^+

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Legend

Level Scheme

Intensities: Relative I_γ

- ▶ $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
- ▶ $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
- ▶ $I_\gamma > 10\% \times I_\gamma^{\text{max}}$
- - - -▶ γ Decay (Uncertain)

