

IDENTIFICATION OF EXCITED STATES IN THE N=Z NUCLEUS ^{62}Ga ¹

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A first level scheme of ^{62}Ga with twelve states up to 10 MeV excitation energy and tentative spin 17 has been established from particle- $\gamma\gamma$ coincidences measured with GAMMASPHERE, EUROGAM-II, and GASP in conjunction with ancillary detector devices. The level scheme is compared to neutron-deficient $A \approx 60$ nuclei. Shell-model calculations indicate the level scheme to be built from $T=0$ excited states, while the 0^+ ground state is lowered by its $T=1$ binding energy.

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