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The Investigation of the E2/M1 Multipole Mixing Ratios and Deformation Parameters of Electromagnetic Transitions in Decay of ^{156}Gd

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Abstract: The extended Rotation -- Vibration Model (RTV) containing different deformations for protons and neutrons is applied to ^{156}Gd nucleus. Using the Rotation-Vibration Model approach multipole mixing ratios δ (E2/M1), deformation parameter β_o , g_R factors, and quadrupole moments q_2 + and q_o were calculated.

Key Words: Rotation -- Vibration Model, multipole mixing ratio, deformation parameter, quadrupole moment and electromagnetic transitions.

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