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Proceedings of the 14th International Symposium on Nuclei in the Cosmos (NIC2016)

Bands and Isomers in Neutron-Rich Rare-Earth Nuclei in PHF Model

[Abstract](#)[References](#)Full text: [PDF \(eReader\)](#) / [PDF \(Download\)](#) (281 kB)C. R. Praharaj^{1,*}, S. K. Ghorui², Z. Naik³, and B. B. Sahu^{4,†}[+ Affiliations](#)

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Rotational structures of neutron-rich Gd and Dy nuclei in the REE peak region are studied with deformed Hartee-Fock (HF) and angular momentum (J) projection model. Spectra of ground band and a few more excited, positive and negative parity bands have been studied up to high spin values. Some 4-quasiparticle *K*-isomeric bands and their electromagnetic properties are predicted.

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