ID de Contribution: **14** Type: **Non spécifié**

Structure of odd-mass γ-soft nuclei within the IBFM

mardi 11 juillet 2023 09:30 (30 minutes)

Shapes and the related spectroscopy of odd-A and odd-odd nuclei are studied using the framework of nuclear density functional theory and particle-boson coupling scheme. The Hamiltonian of the interacting boson-fermion model describing the low-lying structure of odd nuclei is constructed based on the microscopic self-consistent mean-field calculations with a choice of universal energy density functional. This presentation will focus on recent IBFM studies on γ-soft nuclei, concerning the low-spin bands of odd-A systems that have been interpreted as wobbling bands, the chiral doublet bands in the odd-odd Cs region, and the beta-decay properties.

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Classification de Session: Session