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Theoretical studies on the chirality and wobbling in SDU

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Chirality and wobbling are two direct evidences of triaxial deformed nuclei. Following with the experimental explorations of chirality and wobbling in 80 mass region in Shandong University, we studied the corresponding issues on the theoretical side. The nuclear deformation in 80 mass region has been investigated using covariant density functional theory, and the candidates of chiral nuclei in bromine and rubidium isotopes have been suggested. The influence of the moments of inertia on different wobbling modes has been investigated using the particle rotor model, and our understanding for the wobbling motion are exhibited. The group theory for the two phenomena are also mentioned briefly.

Author: QI, Bin (Shandong University)

Co-auteurs: LIU, Chen (Shandong University); WANG, ShouYu (Shandong University)

Orateur: QI, Bin (Shandong University)

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