



ID de Contribution: 22

Type: Non spécifié

Chirality and wobbling in the $^{135,136,137}\text{Nd}$ and ^{135}Pr nuclei

vendredi 14 juillet 2023 10:30 (30 minutes)

The exotic collective excitation modes called chirality and wobbling have been experimentally investigated in the $^{135,136,137}\text{Nd}$ and ^{135}Pr nuclei. Many new bands have been identified which were explored by the constrained tilted axis cranking covariant density functional theory, as well as by newly developed particle-rotor models. A good agreement between experimental data and the results of models calculations is achieved, supporting thus the existence of multiple chiral doublet bands phenomenon in the $^{135,136,137}\text{Nd}$ nuclei. The wobbling motion in the ^{136}Nd and ^{135}Pr nuclei will also be discussed in the present talk.

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Classification de Session: Session