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Theoretical Investigation on nuclear chirality

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The concept of chirality in atomic nuclei was first proposed in 1997 and has been extensively investigated for the past decades. In this talk, the theoretical efforts on nuclear chirality are reviewed. Recent progress including the early appearance of the chiral rotation induced by superfluidity, the microscopic dynamics of chiral excitations, Chirality-Parity (ChP) violation, collective Hamiltonian for chiral and wobbling modes, K plot and the azimuthal plot, searching for new observable characterizing chirality, will be emphasized.

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