第二十届全国中高能核物理大会暨第十四届全国中高能核物理专题研讨会

Contribution ID: 94

Type: **口头报告**

Entanglement in the nuclear collective motion

Saturday, 26 April 2025 15:25 (20 minutes)

Entanglement is a fundamental concept in quantum mechanics that describes the non-factorizable correlations between subsystems of a composite quantum system, which can not be fully characterized by the independent states of its components. This talk will present our recent study of entanglement in the nuclear collective motion, including wobbling motion and chiral rotation. The entanglement is measured by the entanglement entropy and concurrence fill. The effects of rotation, excitation, and deformation on the entanglement will be introduced. Additionally, possible experimental probe to detect the entanglement in the collective rotation will be discussed.

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Session Classification: 分会场一