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Overview of the 2024 Miniball experimental campaign at ISOLDE

The Miniball gamma-ray spectrometer at ISOLDE-CERN is employed to investigate both collective and single-particle nuclear properties in radioactive isotopes. The spectrometer comprises eight assemblies of three high-purity germanium detectors, and is complemented with ancillary silicon detectors for particle detection. It exploits the re-accelerated radioactive ion beams provided by the HIE-ISOLDE facility to perform Coulomb excitation and nucleon transfer reactions.

The 2024 Miniball campaign at ISOLDE focused on Coulomb excitation reaction experiments to investigate nuclear deformation for medium-mass and heavy nuclei. Highlights of the recent experiments performed at Miniball will be presented.

Work-package

WP2 - RIs for Nuclear Physics

Facility identifier

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Author: PORZIO, Carlotta (CERN)

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