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High-resolution gamma-ray spectroscopy at LNL with GALILEO: commissioning campaign and first results

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The Legnaro National Laboratories have a long-standing tradition in gamma-ray spectroscopy. They hosted the most recent HPGe arrays, from GASP, one of the first Compton-shielded large HPGe array to AGATA, the first operational tracking array worldwide.
In this context, a new resident gamma-ray spectrometer GALILEO has been developed. After a 1-y long commissioning campaign, a physics campaign started. In such campaign, GALILEO has been combined with a light-charge particle and a neutron array, EUCLIDES and NEUTRON WALL, respectively, for the investigation of neutron-deficient nuclei. The experiments performed so far aimed mainly at studying the shape coexistence phenomenon in medium-mass and heavy nuclei, the octupole correlations in the Ba region and the isospin symmetry breaking effect in light nuclei. The first results will be reported.

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