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Medium-High Energy nuclear Physics at LNL

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The main research activity at LNL is based on the use of the Tandem-ALPI-PIAVE accelerator complex for production and acceleration of heavy ions. Beam time from this accelerator complex is mainly dedicated to basic nuclear physics research but an important fraction of the beam time is also allocated for applied and interdisciplinary physics measurements. The large variety of ion beams delivered by the powerful combination of electrostatic and superconducting RF accelerators, with a broad range of energies, allows for the exploration of the most intimate aspects of the nuclear structure. Nuclear structure and reaction mechanisms at energies close to the Coulomb barrier are studied with dedicated instruments developed at LNL. The development of acceleration techniques and of the instruments for the nuclear physics research made of the Laboratori Nazionali di Legnaro one of the most prominent nuclear physics center in the world. An overview of the research activities performed with the Tandem-ALPI-PIAVE accelerator complex will be given.

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