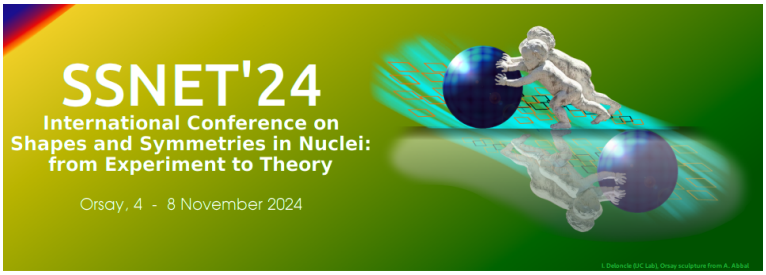

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Progress at the ATLAS facility

lundi 4 novembre 2024 12:25 (20 minutes)

The ATLAS facility at Argonne National Laboratory is a US DOE national user facility for low-energy nuclear physics. It provides the user community with any stable beam from proton to uranium at around Coulomb barrier energy, in addition to a suite of light radioactive beams produced in-flight by the RAISOR facility and heavier neutron-rich isotopes delivered at low or Coulomb barrier energy by the (nu)CARIBU upgrade. The facility is also host to state-of-the-art instrumentation such as Gammasphere, GRETINA, HELIOS, MUSIC, AGFA, FMA and a slew of ion trapping systems that allow it to pursue a varied research program in nuclear structure, nuclear astrophysics, fundamental interactions and applications.
The facility and its research program will be presented in this talk, together with recent upgrades such as nuCARIBU and the N=126 factory that provide increased access to new regions of the nuclide landscape.

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