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The DESIR facility at GANIL/SPIRAL2

DESIR, the low-energy facility of GANIL/SPIRAL2 is presently in its final design phase. It will provide users with high-quality exotic beams at energies up of 60 keV. The call for tenders for the construction of the facility has been launched and construction should start in 2023.

The paper will present the physics case of the DESIR facility, its general layout and the instrumentation under construction or commissioning. The physics case is centred around three pillars: laser spectroscopy with the LUMIERE facility, ion trapping within DETRAP and the beta-decay experiments grouped in the BESTIOL collaboration. The experiments will address topics in nuclear structure physics, fundamental interactions, nuclear astrophysics and applications of nuclear techniques. One of the main assets of DESIR will be the availability of two complementary production sites for radioactive species (neutron-deficient and heavy nuclei with S3, light fragments with SPIRAL1) and a series of purification devices to provide isotopically pure beams to the users.

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