

SPIRAL2 operations and future plans

Tuesday 27 August 2024 09:50 (20 minutes)

GANIL (Grand Accélérateur National d'Ions Lourds) started the operation of the SPIRAL2 superconducting linac in 2022. Experiments in the Neutron For Science (NFS) room, specific beam dynamics studies and different technical improvements are carried out during its operation in the second half of each year, after the run of the cyclotrons in the first half of the year. Up to now, accelerated particles are mainly D⁺ and 4He²⁺ beams with energies between 7 and 20 MeV/A. First linac tunings with 18⁶⁺ and 40¹⁴⁺ ion beams at energies between 7 and 14.5 MeV/A were also carried out to prepare the Super Separator Spectrometer (SSS) experimental area commissioning. The paper presents a summary of the beam time distribution during the second year of operation, preliminary results of specific studies on cavity failure recovery and on pressure variation in the warm linac sections induced by beam losses.

Footnotes

Funding Agency

Primary author: ORDUZ, Angie (Grand Accélérateur Nat. d'Ions Lourds)

Co-authors: Dr PLAÇAIS, Adrien (Laboratoire de Physique Subatomique et de Cosmologie); LEDUC, Alexandre (Laboratoire de Physique Subatomique et de Cosmologie); BOULY, Frédéric (Laboratoire de Physique Subatomique et de Cosmologie); NORMAND, Guillaume (Grand Accélérateur Nat. d'Ions Lourds); LAGNIEL, Jean-Michel (Grand Accélérateur Nat. d'Ions Lourds); Mr DI GIACOMO, Marco (Grand Accélérateur Nat. d'Ions Lourds)

Presenter: ORDUZ, Angie (Grand Accélérateur Nat. d'Ions Lourds)

Session Classification: Main Session TUX

Track Classification: MC1: Beam Dynamics, Extreme Beams, Sources and Beam-Related Technologies; MC1.1 Beam Dynamics, beam simulations, beam transport