

# ACCELERATOR SEMINAR

**Santo Gammino**

INFN-LNS, Catania, Italy

**Friday, 8<sup>th</sup> September at 2 p.m.**

**KBW lecture hall**

Planckstraße 1, 64291 Darmstadt

## **"Ion sources for accelerators: recent progress and next activities at INFN-LNS"**

Since 1989 the demands of nuclear physics experiments triggered an intense R&D activity at INFN-LNS, which covered either the technological developments, including the design and construction of innovative ion sources for any species of ions, and the developments of modelling and diagnostics aimed to improve the existing sources and to understand their behavior. The major issues concerned the construction of Electron Cyclotron Resonance Ion Source for the production of multiply charged ion beams and the construction of Microwave Discharge Ion Sources for the production of high brightness proton beams. The talk will briefly describe the past developments and then will focus on the recent progress, with particular care to the requirements of the European Spallation Source (ESS) as for proton sources and to the new demands of nuclear physics experiments at INFN and elsewhere, as for heavy ion sources. An outline on future developments will conclude the presentation.



Coordinator: Manuel Heilmann

Secretary: Paola Lindenberg

<https://indico.gsi.de/categoryDisplay.py?categId=359>

