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The deep underground “Bellotti Ion Beam Facility” at the Gran Sasso National Laboratories

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The Bellotti Ion Beam Facility was inaugurated in 2023. It currently houses a 3.5 MV Singletron accelerator supplied by High Voltage Engineering Europe, installed inside the deep underground Laboratori Nazionali del Gran Sasso (LNGS) in Italy, where the natural cosmic ray flux is reduced by up to six orders of magnitude. The installation of the facility has been supported by the “LUNA-MV Premium Funds” provided by the Italian Ministry of Research and by INFN.

The intense proton, alpha and carbon beams available at the Bellotti Ion Beam Facility are made available to the international scientific community through annual calls for beam time published on the LNGS website.

This presentation will outline the main characteristics of the facility, its operational status and future developments.

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