**Istituto Nazionale di Fisica Nucleare Laboratori Nazionali di Frascati**

Avviso di Seminario Generale

# Dr. Pier Monni

CERN

**Gearing up for the precision frontier: theory challenges at HL-LHC and FCC**

The proposed Future Circular Collider (FCC) integrated programme consists of two stages: An electron–positron collider serving as a highest-luminosity Higgs-boson, electroweak and top-quark factory, followed by a proton–proton collider with a collision energy around 100 TeV. In 2021, the CERN Council launched the FCC Feasibility Study. This study covered, inter alia, physics objectives and potential, geology, civil engineering, technical infrastructure, territorial implementation, environmental aspects, R&D needs for the accelerators and detectors, socio-economic benefits, and cost. The Feasibility Study was completed on 31 March 2025. The subsequent European Strategy Symposium has singled out the FCC as the by-far preferred future collider option for CERN. We present a few study highlights, the status, and the next steps.

## Lunedi’ 13/10 ore 15:50 Aula Salvini

https://agenda.infn.it/event/48437/

L'invito è esteso a tutto il personale interessato, che è caldamente invitato a partecipare.