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FCC

The 2020 Update of the European Strategy for Particle Physics requests a global feasibility study of a future 100 TeV hadron collider at CERN, with an electron-positron Higgs and electroweak factory as a possible first stage. This request is well aligned with the proposed Future Circular Collider (FCC) programme, which consists of a luminosity-frontier high-energy electron-positron collider (FCC-ee) followed by an energy-frontier hadron collider (FCC-hh).

This seminar will summarise the designs of FCC-ee and FCC-hh, covering the latest accelerator layouts and beam parameters, the R&D plan for key technologies, ongoing placement studies, and a possible implementation schedule. The presentation will also cover an outcome from the recent FCC-Italy workshop held in Rome, summarising all the present and possible collaborations by INFN to the FCC project.