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The Future Circular Collider at CERN

Tuesday, 30 August 2022 15:40 (30 minutes)

The proposed Future Circular Collider (FCC) at CERN aims to continue the exploration of open questions in particle physics beyond the LHC and its high-luminosity upgrade in a staged research programme, integrating in sequence lepton (FCC-ee) and hadron (FCC-hh) collider programmes, and with the option of a hadron-electron collider (FCC-he), to achieve further understanding of the Standard Model and of electroweak symmetry breaking, and to maximise the potential for the discovery of phenomena beyond the Standard Model. The talk will present the status of the FCC Feasibility Study, launched to address the recommendation of the update in 2020 of the European Strategy for Particle Physics with the objective to provide an analysis of the technical and financial feasibility of a new collider infrastructure at CERN through a global collaboration of universities, scientific institutes and high-tech companies.

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