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The Future Circular Collider study

Friday, 22 March 2019 10:40 (20 minutes)

The Future Circular Collider (FCC) study, which was formally launched in 2014, would see a 100 km-circumference tunnel built at CERN to host post-LHC colliders that could offer a rich physics programme until the end of the 21st century. The goals of this international project are to boost the energy and intensity frontiers in our efforts to search for new physics that could answer the important unsolved questions in fundamental physics after the discovery of the Higgs and the completion of the Standard Model. Experiments at future colliders could contribute to determine which, if any, of the theories trying to answer these questions are realised in nature, and to expand our knowledge about the fundamental laws of the universe.

Dr Michael Benedikt will discuss the motivation for and the main scenarios covered by the Future Circular Collider study and present the rapid progress made in technological R&D across the many domains of this mammoth technological effort. He will present the challenges of this project and the opportunities offered by this endeavour as the realisation of these machines calls for a major global training, technological and industrial programme.

Presenter: Dr BENEDIKT, Michael (CERN)