



KCETA Colloquium

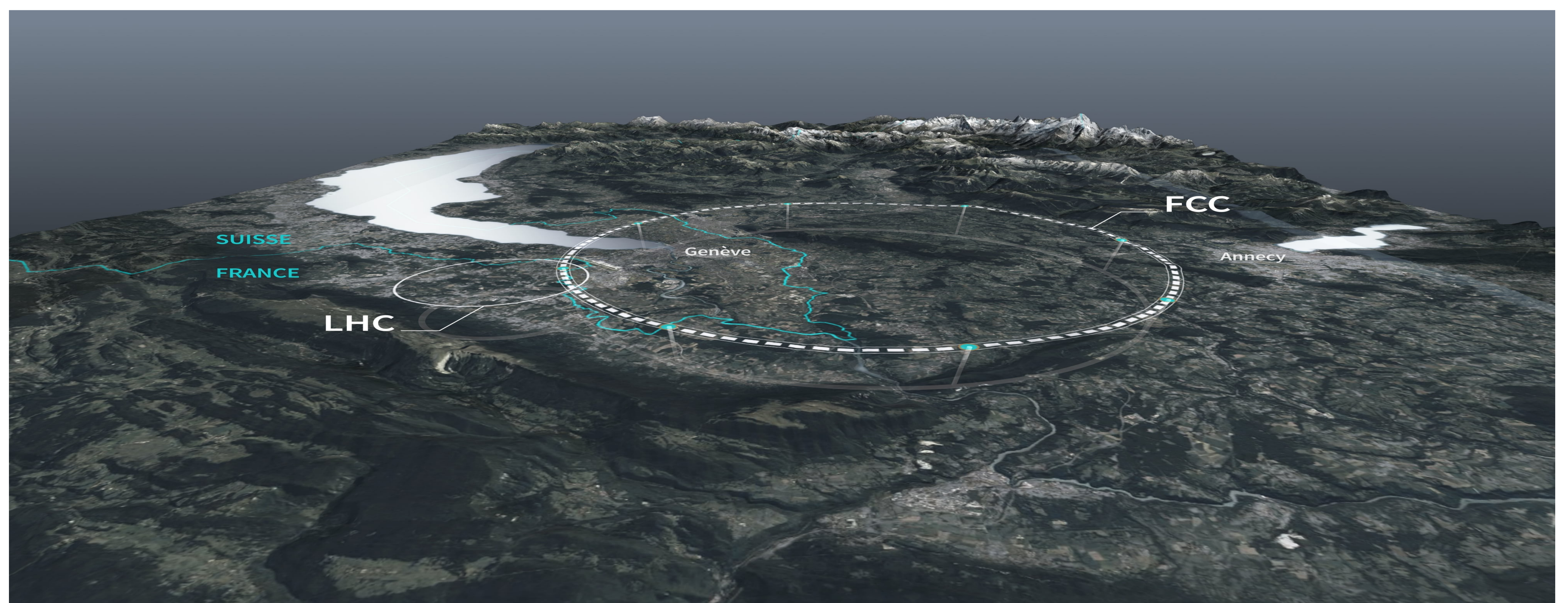
Physics Opportunities at FCC-ee

Thursday, January 9, 2025

Kleiner Hörsaal A (CS) 15:45 - 17:00

Prof. Stephane Monteil
(Clermont University)

This seminar will introduce the Future Circular Colliders project and its Feasibility Study. The FCC project features a 90 km long tunnel in the Geneva basin where an electron-positron collider crossing four relevant electroweak thresholds (Z, WW, HZ and tt) shall be installed first. A longer term energy frontier proton collider, defining the infrastructures, is envisaged to be hosted in the very same tunnel. The exquisite luminosity of the electron circular machine at each energy can challenge the electroweak observables precision consistency test and offers, in particular at the Z pole but not only there, a continuation of the exploration of the Flavour Physics case beyond the vibrant LHCb and Belle II programmes. We'll review these Physics opportunities and discuss some of the related detector requirements and detector R&D.



Please note: The colloquium will also be live-streamed to B401 SR 410 (CN).