

Séminaire commun LAL/IPN

Michael Benedikt

CERN

CERN Future Circular Collider Study (FCC)

mercredi 7 mai 2014 à 10h30

Implementing the request in the 2013 update of the European Strategy for Particle Physics, which states, "...that CERN should undertake design studies for accelerator projects in a global context, with emphasis on proton-proton and electron-positron high-energy frontier machines,..” an international design study of options for a future high-energy frontier circular collider at CERN for the post-LHC era is being launched.

The presentation will give an overview on the scope of the FCC study. The main parameters of both hadron and lepton collider options will be presented together with the design challenges that have been identified at this early state. The main accelerator R&D programmes will be discussed together with the overall timeline for the study.

Biography:

Michael Benedikt is an accelerator physicist who started his career with a PhD on medical accelerator design, as a member of the CERN Proton-Ion Medical Machine Study group. After having obtained his degree he joined CERN's accelerator operation group in 1997, where he headed different sections before taking on the deputy group leader position in 2006 that he held until end 2013. In parallel to his operation related activities, Michael Benedikt was leading the PS2 design study from 2005 to 2008 to design a new high-performance synchrotron as potential replacement of the aging CERN Proton Synchrotron. From 2008 until 2013 he was project leader for the design and construction of the accelerator complex for the Austrian hadron therapy centre MedAustron in Wiener Neustadt. In autumn 2013 Michael Benedikt was appointed CERN study leader for the Future Circular Collider Study at CERN with the mandate to develop conceptual design for future energy frontier circular colliders for the post-LHC era. Aside of his activities at CERN, Michael Benedikt is teaching accelerator physics at the Vienna University of Technology.

Ce séminaire aura lieu dans l'auditorium Pierre Lehmann du LAL

Thé et café seront servis ¼ h avant le séminaire

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