

HHH 2004

First CARE-HHH-APD-Workshop

Beam Dynamics in Future Hadron Colliders and Rapidly Cycling High Intensity Synchrotrons

Geneva, 8-11 November 2004

<http://care-hhh.web.cern.ch/CARE-HHH/HHH-2004>

This workshop is organized by the "Accelerator Physics and synchrotron Design" (APD) collaboration of the CARE-HHH European Network on "High Energy High Intensity Hadron Beams". It will be followed by a general meeting of the HHH Network.

Local Organizing Committee

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Goals of the workshop

- Identify critical items for LHC luminosity improvements and for high intensity proton rings based on fast cycling magnets
- Sketch scenarios for an upgrade of the LHC IR regions and injectors
- Discuss benchmarking and common repository of simulations/design tools
- Launch a critical analysis of alternative LHC upgrade scenarios, establish a list of pros and cons including beam dynamics and technology constraints, to narrow down the choice of the best scenario

Scope

- Beam optics and Interaction Region magnet layout
- Beam intensity limitations
- Duty cycle limitations in connection with LHC upgrade and GSI project



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