Joint DESY and University of Hamburg Accelerator Physics Seminar

Monday, April 23-rd, 2007

(16:00 in Room 459/30b)

Space charge studies in the CARE–HIPPI
(High Intensity Pulsed Proton Injector) project

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GSI

Abstract

The European Joint Research Project HIPPI is aiming at the development of components for a future superconducting high intensity proton linear accelerator in Europe. One of the issues (working packages) is an advanced understanding of beam dynamics issues. This includes a simulation code comparison and benchmarking using experimental data from the GSI UNILAC under high space charge conditions. The status of recent measurements as well as multi–particle simulations with codes like Dynamion, Parmila, Halodyne and others is reported.

NOTE THE UNUSUAL DATE

D.P.Barber (MPY), S.Khan (Univ. HH), J.Roßbach (Univ. HH) and M.Vogt (MPY).

Visit our web site at `http://www-mpy.desy.de/AccPhySemDESY/index.html`