Joint DESY and University of Hamburg Accelerator Physics Seminar

Tuesday, 22.05.2012

(15:00 in Room 459/30b)

Investigation of Slice Emittance Using an Energy–Chirped Electron Beam in a Dispersive Section for Photo Injector Characterization at PITZ

(PhD Defense)

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(DESY)

Abstract

This work describes a transverse slice emittance diagnostics with an RMS temporal resolution down to 2 ps that was implemented at the Photo Injector Test facility in Zeuten (PITZ). This diagnostics allows to study the beam projected emittance compensation with a solenoid magnetic field experimentally and therefore contributes to the beam emittance optimization for the needs of short wavelength linac–based FELs in particular.

NOTE THE UNUSUAL TIME

J.Roßbach (Univ. HH) and M.Vogt (MFL).

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