Joint DESY and University of Hamburg Accelerator Physics Seminar

Tuesday, May 23, 2006

(14:00 in Room 459/30b)

Design considerations of the longitudinal phase space and bunch length measurement system at the LCLS injector

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Abstract

A system for measuring the longitudinal phase space and its projections after the LCLS gun needs to be developed. The measurement of bunch length and the longitudinal phase space using a Cherenkov radiator and a streak camera were successfully performed at the Photo Injector Test Facility at DESY in Zeuthen (PITZ). A possible application of a similar measurement system at the LCLS injector will be discussed. Local conditions have to be taken into account. Different types of radiators and optical systems are discussed.

NOTE THE UNUSUAL TIME

D.P.Barber (MPY), J.Rossbach (Univ. HH) and M.Vogt (MPY).