Joint DESY and University of Hamburg Accelerator Physics Seminar

Tuesday, February 19-th, 2008

(16:00 in Room 459/30b)

Transverse Emittance Measurements at PITZ

Lazar Staykov

University of Hamburg

Abstract

At the Photo Injector Test–facility at DESY, location Zeuthen (PITZ), electron sources providing small transverse emittance are developed and optimized. A facility upgrade including the installation of improved diagnostics, a preliminary booster cavity and a new 10 MW klystron allowed the generation of electron beam close to the XFEL specifications. Results from emittance measurements will be presented showing the performance of two different gun cavities operating at 40 and 60 MV/m (gradient at the cathode).

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