Joint DESY and University of Hamburg Accelerator Physics Seminar

Tuesday, 20.12.2011

(16:00 in Room 459/30b)

The Facility for Advanced Accelerator Experimental Tests (FACET)

Uli Wienands

(SLAC)

Abstract

FACET (**F**acility for **A**dvanced a**C**celerator **E**xperimental **T**ests) was constructed in Sector 20 of the SLAC 2–mile linac to provide ultrashort intense bunches at up to 23 GeV for PWFA, DLA and other advanced accelerator physics experiments. With installation completed this summer, commissioning of the facility began in June of this year. Beam–commissioning involved restarting of the first 20 sectors of the linac complex after a 3–year hiatus. Once beam was established, initial commissioning of the chicane was done followed by intense beam tuning across the whole complex. In this talk I will introduce the facility, outline the major commissioning milestones and the beam parameters achieved. I will then describe the experimental facilities available to users. A proposal process is in place and the first user run will commence in March of 2012. I will outline the physics programme scheduled to run, and I will end with an outlook to the the future.

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

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