Joint DESY and University of Hamburg Accelerator Physics Seminar

Tuesday, 15.11.2011

(16:00 in Room 459/30b)

Accelerator R&D at SLAC :
Finding Answers to Questions We Know and Those We Don't

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Abstract

In its transition to a multi–program laboratory SLAC had to realign the accelerator R&D with its core mission, namely a photon science based program. Part of the talk will address how the R&D we do in accelerator physics and photon science will allow us to maintain a leadership role in the operation of our premier photon science facilities LCLS and SSRL. But there is also the R&D that will allow us to conceive and test ideas and technologies that might allow us to build a whole new generation of accelerators. This advanced accelerator R&D is traditionally funded through the High Energy Physics program in the DOE's Office of Science and maintains our path to the future. How to maintain the drive that High Energy Physics used to provide without building large accelerator based facilities anytime soon is the second interesting question that will be addressed. Finally, in the stretch between the near term and the long term, there is presently a need, if not a requirement, to make the technologies that we have development in accelerator physics available and reach out into medicine, homeland security, industry, energy and various other fields. Policy changes in the US start to affect the R&D program and will be discussed as well.

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

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