

Meeting of Project Board Accelerator

17.7.2007, Phone Conference

Present: E Elsen, W Hillert, S Khan, G Müller

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Constituting Session of Project Board

The members of the Project Board are

- Eckhard Elsen (DESY)
- Wolfgang Hillert (University of Bonn)
- Shaukat Khan (University of Hamburg)
- Günter Müller (University of Wuppertal)

The members introduce themselves and briefly describe the scientific vita. The teaching experience is outlined.

Scientific Programme

Wuppertal

- Research in fundamental effects limiting the gradients in superconducting RF cavities. With the help of the FEM infrastructure in Wuppertal the field emission breakdown may be correlated to surface defects (1 PhD student).
- Development of a low emittance laser driven electron gun. This work will develop in collaboration with FRZ Rossendorf and DESY (1 PhD student).

Hamburg

Hamburg is engaging in beam line diagnostics and photon sources. The detailed future programme is being developed in collaboration with DESY

DESY

DESY is interested in the further developments of high gradient cavities, beam line diagnostics and controls. The detailed programme is awaiting the outcome of an EU proposal (ILC-HiGrade) which is supporting the development of high gradient cavities. The details of the programme are being developed together with the University of Hamburg.

Bonn

- Development of a Compton Polarimeter with 180° laser beam injection. The 40 W laser is operating at 514 nm. The scattered particles are detected in Si-strip detectors with 50 µm pitch (1 PhD student).
- Installation of the infrastructure to polarise electrons which should be ready by the end of the year (1 PhD student).

Web-page

The starting point for the development of the Accelerator Web-page will originate from the HGF proposal and the work described therein. E Elsen will provide an example/template that can be expanded by the various experts.

Teaching

An important element of the Alliance concerning accelerators is to promote the education of accelerator scientists in German Universities. To this end several universities offer lectures in their curricula. E Elsen is currently teaching accelerator basics at the University of Göttingen. The course combines a two hours lecture with two hours of practical computer course in a bi-

weekly rhythm. The hands-on experience refers to examples that are relevant for current applications. The exercises are available from the web-pages. The travel-implications are considerable and the feasibility depends on the proximity to DESY or other centres of expertise.

The Project Board discusses the option of offering an Accelerator School which could take place in the space of a week at DESY. A tentative date is spring 2008. A detailed lecture course should be developed over the summer and the detailed planning will begin in fall.

Chair of Project Board

E Elsen is selected as the chair of the Project Board Accelerator. The term of office is scheduled for 2.5 years.

Next Meeting

August 29, 2007, 14:00