

Meeting of Project Board Accelerator

12.9.2007, Phone Conference

Present: E Elsen, W Hillert, G Müller;
S Khan sends apologies

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News from Management Board

Kick-off Meeting planned for December 3-5, 2007

The Kick-off open meeting is planned for early December 2007. As one of the strategic elements of the Alliance the Accelerator may be asked to present its specific topics of research such as to introduce accelerator research to a larger audience. Such a presentation would go beyond the presentation of each work package that is anyhow planned.

The PB took note of this request and recognises that such presentation serves its purpose if a sufficiently large audience can be attracted to the meeting.

FP7 Meeting at CERN (ESGARD OMIA)

The FP7 Meeting in Integrated Activities is of relevance both for Superconducting RF research and for beam dynamics studies of the Alliance. There will be one proposal for HEP accelerators encompassing high luminosity proton colliders, electron positron colliders and neutrino facilities. Submission deadline for the proposal is February 15, 2008 so that first funding could be envisaged for 2009. The support for superconducting is recognised as an important element for accelerator support. The applications for the latter are high intensity proton beams (SPL) and ILC.

Wuppertal has put in a request to extend the surface research that is an important element in the activities in the Alliance. DESY will also participate in the context of single crystal studies. The low-level RF studies at DESY - together with other European partners - are another important element. Concerning non-SRF topics DESY will try to participate with a programme on the polarised positron source of the ILC. The participation in the ILC programme of Damping rings is still being explored with the role of the UK as area leader.

The ILC has responded to an earlier FP7 programme supporting large infrastructures in their "preparatory phase". The proposal has been successful and the co-ordinator, E Elsen has been invited for contract negotiations. The anticipated external funding for that programme amounts to 5 M€. Half of that amount is directed towards the work on improving the accelerating gradient of the cavities such as to fulfil the ILC requirements.

It is important to realise that the FP7 programmes provide plenty of opportunities for collaboration with the European partners in accelerator research. In a certain sense the EU programmes complement the national efforts of the HGF on a European scale.

Programme Terascale Accelerator

The elements of the programme for Bonn and Wuppertal and been discussed in an earlier meeting. DESY and Hamburg held back in detailing the immediate programme to await the return of the FP7 calls. It was hoped that through the synergistic activities with the FP7 commitments a critical mass could be obtained.

With the advent of the FP7 programme details S Khan and E Elsen have sketched the elements of the programme at DESY and Hamburg. There are two key areas:

- Diagnostics and Controls
- Superconducting RF (SCRF)

The research groups at DESY (FH) will engage significantly in the activities for SCRF including its controls and it is hence reasonable to assume that a larger engagement in this areas provides the setting for a YIG that requires resources beyond its own funding.

On a large time scale there are interests to engage in the research for high intensity polarised guns and to pursue the topic of laser plasma acceleration. For the latter DESY and Hamburg are in contact with the Max-Planck institute in Garching.

The web-page should be updated to reflect the status of these activities. The starting point for the description is the proposal of the Alliance.

Terascale Accelerator School

An accelerator school has been envisaged for the week 3.3.-7.3.2007. This school will consist of lecture in the morning and hands-on courses in the afternoon. Since the time available in a week is short the topics will be limited to relativistic particle accelerators and primarily address LHC and ILC. The focus of the individual days could be

- Introduction into linear optics for relativistic accelerators
- LHC
- Linear Colliders - Cavities
- Cavities
- Novel concepts, plasma accelerators etc.

The details of the programme are being worked out. Speakers will be mostly from within the Alliance but external speakers may be invited as well. The success of the tutorials will depend on the contributions of postdocs who are willing to contribute.

Next Meeting

October 10, 2007, 14:00