

Physics and Experiment Board Meeting

July 5 (1400 GMT), 2011

Minutes (prepared by J. Brau)

Present: Ties Behnke, Jim Brau, Karsten Buesser, Catherine Clerc, Marcel Demarteau, Juan Fuster, John Jaros, Akiya Miyamoto, Michael Peskin, Yasuhiro Sugimoto, Andy White, Sakue Yamada.

CLIC-ILC Joint Working Group – Sakue

The CLIC-ILC Joint Working Group met on June 23. General issues were discussed. The powering workshop was a success. Deadline for first version of CDR is the end of August. Then increased contribution toward DBD from CLIC people is expected.

Costing Working Group - Sakue

The Costing Working Group met June 28. Peter Garbincius joined with experts from both SiD and ILD. The main topic of discussion was the magnet cost. Both groups based the LOI cost on the CMS magnet cost. Scaling is not trivial. Two groups will break down costs to try to understand comparison. Cost could depend on whether or not lab is involved in construction, since lab can assume risk that industry cannot.

Communicators and the Interim Report - Sakue

The communicators are finding the draft fairly easy to edit. They are working on making it easily understandable. Goal is to finish by Granada. Figures are being added. Chapter editors are asked to keep community informed.

Future Meetings – Sakue

ILCSC in Mumbai - August 24

major topic is discussion of post-2012 scheme

IDAG - Granada

during parallel sessions

face-to-face of PEB during Granada

perhaps Thursday, Sep 29

PAC - Prague - Nov 14,15

ask both ILD and SiD to send representatives

ILD - Ties

Normal work goes on. CALICE and TPC Collaborations are making good progress. Development of software for event production is proceeding. ILD meeting in Paris created confidence that schedule of fall and early next year can be kept.

SiD - Andy

SiD has produced an outline for the DBD. Work on the Iowa PFA is making progress. CLIC colleagues are participating in the SiD PFA meeting. The nature of the SiD meeting in Granada is being discussed. Funding for the US university program receives its last funding at the end of 2011, and a new program has been proposed.

MDI – Karsten

Recent discussion with CLIC and the ILC facilities group have dealt with the UK company which has been hired for two tasks: the engineering model of the platform and the geo-technical study of rock, particularly the behavior of the hall over time. This was discussed with a representative of the company during a meeting in Paris, with ILD and SiD participation, and will be followed by a meeting in London, July 25-26.

Engineering Tools – Catherine

A document on EDMS is being prepared. Little use has been noticed so far, and thoughts are being given to motivating people to use the tool.

Detector R&D - Marcel

Work is proceeding on a spin-off document, with a draft anticipated in six weeks or so. Then test beam needs and availability will be studied. Fermilab stops its beam February 1 for one year to upgrade the main injector to higher power. The SLAC electron test beam is under construction, and should be available late in 2011, or early in 2012. The SLAC beam will deliver electrons. For the time being there is no plan to deliver hadrons.

Physics - Michael

The Physics CTG is planning for DBD report, but it is necessary to see the LHC results and react to them before the document can be developed.

Software – Akiya

The generator group is active, working on the new benchmark study while waiting for the new beam parameters. The group is working on completion of the LCIO update.

1 TeV Machine Parameters - Jim

The GDE plans to present new parameters for 1 TeV in August. The SB2009 WG will study the parameters, as best they can, for a discussion in Granada.

PAC in Taipei – Sakue

It was agreed that a subgroup of 5 will interact with the GDE AD&I team: Karsten Buesser, Keisuke Fujii, Tom Markiewicz, Mark Thomson, Jim Brau. Akiya has also been asked to join.

It was stated that the GDE does not plan to fix parameters soon.

ILCSC - Sakue

The ILCSC will meet during the Mumbai Lepton-Photon Conference, and will discuss scheme of post-2012 period. Input from the detector community is important.

Next meeting

The next meeting will be (tentative) August 2 at 1400 GMT.