

Minutes of the Physics and Experiment Board

Tuesday, Jan. 20, 2009 (GMT 14:00 to 15:20)

Present: Akiya Miyamoto, Francois Richard, GP Yee, Hitoshi Yamamoto, Jim Brau, John Hauptman, John Jaros, Marcel Demarteau, Michael Peskin, Phil Burrows, Sakue Yamada, Ties Behnke, Yasuhiro Sugimoto

Excused: Catherine Clerc, Harry Weerts, Karsten Buesser(Replaced by Phil Burrows)

General Report (Sakue Yamada)

Discussions began on the 2nd PAC meeting scheduled on May 9/10 in Vancouver.

Two items are foreseen on the detector activity.

- a) Status of LOIs and IDAG validation process
- b) Activity of the Common Task Groups

For the item a), a summary of submitted LOIs is expected rather than individual presentation. The IDAG chair is consulted whether he can attend the meeting to report. For the item b), each common task group is requested to present its activity either by the convener or by the deputy. The possibility of Webex link will be investigated. (Note: After the meeting, it was confirmed that Webex connection will be prepared.)

Report from the Common Task groups and related discussions

MDI group (Phil Burrows)

The new draft of the minimal requirement document based on the discussed in Chicago has not been finished yet. Tom Markiewicz is working on it and the draft will be available in a week or so.

There were discussions how best can energy spectrometer and polarization monitor are described in LOIs. Since these are common to all LOI groups, it would be desirable if a separate document can be referred to by all the groups than each LOI repeating the same contents. MDI group is requested to contact the group of people, who are studying these issues, to make such a document.

(Later it was informed to Sakue that the MDI group took the action.)

Engineering Tools (Sakue for Catherine)

Catherine Clerc is now contacting with Andrei Seryi, who informed her of four names of the physicists who are working on designing and making drawings in the area close to the detectors. For the moment there is not a single person whom she can contact.

Detector R&D (Marcel Demarteau)

Marcel reported about the recent US funding request process which involves the priority settings by the LOI groups on their R&D programs.

There were discussions on what LOI groups are expected to provide. It was understood that funding requests should be made by US university groups to the LOI groups based

on an available funding range from \$300k to \$2M. The LOI groups are then expected to bundle the proposals and submit them to the funding agencies through two Principal Investigators (PIs), who are US members of each LOI group. The LOI groups are explicitly requested to prioritize the R&D for their detector concept. Each proposal from a detector concept should be led by two PIs, one from the university community and one from the laboratories. The PIs will be responsible for monitoring progress on the projects, reporting to the agencies at least every six months on progress, and interacting with the agencies on related matters.

The agencies are expected to make a partial award later in the year followed by the remaining award after a six month status report by the co-PIs.

The LOI groups are expected to supply such information when requested by other funding agencies as well.

Software Panel (Akiya Miyamoto)

No report this time.

Physics Panel (Michael Peskin)

The time scale of the physics studies, which was introduced last time, will be expanded. It may take until summer to finalize.

There is a pressing item to be worked on, namely the study of the gamma-gamma collider as the precursor of ILC. The report document is being prepared. It was too hard to finish by the turn of the year but will be ready by the end of the week. (It was completed and circulated to the Physics Panel as was reported.)

Status of the LOI groups

ILD (Ties Behnke)

Now drafts are being collected and assembling is in progress while some simulations are still going on. There will be a meeting in Korea starting February 16 where entire LOI will be completed.

SiD (John Jaros)

Drafts from subgroups were collected and the first version was made last week although it is still incomplete and works are being continued. The group will meet at SLAC on March 4-6.

More guidance on costing will be desirable so that more uniform cost estimations can be made.

This remark initiated some discussions which concluded to form a meeting of costing-experts from each LOI group which tries to establish a common set of conditions for costing.

The 4th group (John Hauptmann)

About the half of LOI is drafted and benchmark reactions are being worked on. There is good progress. Everything was achieved regarding calorimetry. Group's design can accommodate gamma-gamma option. Costing part is still weak.

Sakue commented on the way of submission that only the address for the stored LOI document is needed so that it can be transmitted to IDAG members, who can extract LOIs themselves.

ACFA-GDE joint meeting in Tsukuba (Akiya Miyamoto)

It is scheduled during April 17-21. The web page of the meeting is now open which contains details of the program. The afternoon of the first day is assigned for LOI presentations. Each group has one hour. There are parallel sessions in the middle of the workshop. On the second day, IDAG will meet with representatives of each LOI group. There is a slot for LOI groups to organize their own meetings. Here John Jaros commented that SiD will not have many participants to have a meaningful parallel meeting of the group. After some discussions it was agreed to have extra joint sessions for common issues and/or topics which are interesting to all LOI groups. A request was made to extend the limit of early registration.

AOB

Some information on the coming meetings:

The date of IDAG summer meeting has not been informed yet. (After the PEB meeting, the date was told by the IDAG chair to be June 22-23, 2009 at LAL, Paris.)

Next Meeting: February 17 (Tuesday), 2009, at 1400 GMT