

Minutes of WP-meeting 255

Attendance:

DESY: Ties Behnke, Ralf Diener, Oleksiy Fedorchuk, Claus Kleinwort, Uwe Krämer, Felix Müller, Oliver Schäfer, Lisa Waldmüller

Vidyo: Paul Colas, Keisuke Fujii, Jochen Kaminski, Tomohisa Ogawa, Ron Settles, Jan Timmermans

General News:

Jan, Paul and Keisuke summarized the LCWS meetings. They agreed, that the keynote speech by a diet member was in principle positive, and there is a renewed hope that ILC will be built. But later in the week rumors appeared, that the initial project costs would have to be reduced by 30-40% at least. Therefore, a staging design with a 500 GeV tunnel, but a lower energetic accelerator seems to be more likely also the one detector design will have to be discussed more openly.

The two sessions on the gaseous tracking went well, the highlight was the gating device. The lower limit of the ion stopping power was estimated by operating the device with inverted voltages and measuring the stopping power of a closed gate for electrons. This resulted in a factor of 7, but the blocking of ions is assumed to be more efficient because they follow better the electric field lines. A preliminary version of the document on the alignment and calibration was released. The alignment of the trackers was discussed by Marcel Voss, but there were no final decisions done yet. There is also a summary presentation by Graham which shows both options of alignment with and without Z-pole running and he made clear that we will have to study this in more detail by simulation.

Ron mentioned, that the Chinese Institute of High Energy Physics, CAS has joining the LCTPC collaboration.

A short overview of the upcoming events was given: the 2017 Americas Workshop on Linear Colliders AWLC will be in June at SLAC. This will possibly be done again in an omnibus style, and we will be asked to do our collaboration meeting then. There are no official statements yet, but rumors are, that Straßburg and Oxford might be applying to host the next LCWS.

PCMAG/LP setup, test beam:

Ralf: PCMAG/TRACI/test beam area:

- The new spindle for the moving stage has arrived and will be installed during the winter shutdown. Then the movement of the stage will be without restrictions again.

News from the groups:

Ralf gave summary of the DESY module test beam. Frames of the new module had arrived mid of November. The gluing process had been well practiced before, so that almost two GEMs could be glued per working day and the three modules were finished within less than 2 weeks. The flatness was measured and the spread of the height was smaller by a factor of 2 with respect to the previous series of GEMs. Ramping and high voltage tests were no problem and the modules were installed in the LP. A first week of measurements in the test beam took place during LCWS. Standard measurements were performed and also the impact of a thin steel target was tested in one run giving nice events and confirming the simulations by Oleksiy. This week Belle II detectors are tested, but starting from Friday we can move in the LP again. There is one more week of data taking before the Christmas break. More

refined measurement – for example with large θ angle will be done.

AOB:

The next workpackage meeting will take place on January 12th.