

Minutes of WP-meeting 292

Attendance:

DESY: Ralf Diener, Ulrich Einhaus, Leif Jönsson, Uwe Krämer, Paul Malek, Oliver Schäfer

Vidyo: Yumi Aoki, Paul Colas, Keisuke Fujii, Qi Huirong, Jochen Kaminski, Tomohisa Ogawa, Ron Settles, Akira Sugiyama, Jan Timmermans, Maxim Titov, Keita Yumito

General News:

Maxim announced that a first version of the Detector Liaison Report had been published on September 5th. The material is, however, mostly from 2016 and should be updated by the individual groups. The next version of the report will be released at the end of October and a third one is scheduled for end of December. The last version will then be referenced in the ILC input to the European Strategy and should be up to date.

Jochen announced that the deadline for test beam requests is soon and that everyone who would like to have a test beam in the first half of next year should contact the test beam coordinators soon.

Serguei had sent around the call for abstracts of the VCI. If anyone is interested in giving an overview talk, please contact the speaker's bureau. Also, the MPGD and 'Connecting the Dots' might be interesting conferences for someone to present his/her work.

Paul announced that a skeleton for the IDR is available now. The TPC section is supposed to be one page on the subdetector layout and about 3 pages on the subdetector technology status. So for the time being every technology (MM, standard GEMs, Japanese GEMs and pixels) are asked to write about 10 lines of status report and send it to Paul and Akira.

PCMAG/LP setup, test beam:

Ralf: PCMAG/TRACI/test beam area:

- Preparations for the testbeam of Paul are going on. The new space frame endplate will be mounted on the LP and dummy modules will be mounted on the four to six outer opening. With the new endplate it should be checked if the pipes of the 2PCO2 cooling from the clarinet to the modules are still long enough.

LP:

- The construction of the second field cage is still in progress, but very slowly.

News from the groups:

Paul is preparing the next test beam in November. A new DAQ computer was purchased and has been installed. Some of the DAQ code has to be updated, because it could not be compiled, but it is almost done. The DLC has been pressed on the modules and the Micromegas will be produced soon. Oliver Schäfer worked on the cosmic trigger, which is now available again for overnight tests.

The mechanical studies have been advanced at Saclay regarding the fixing of the TPC to the HCAL and the resulting deformations. As expected the central field cage shows the largest sagging because of gravity with a maximum of 130 μm . The inner Si tracker and the vertex detector will not be suspended from the TPC but will be mounted on the Internal Support Structure (ISS).

Paul also reported from the successful T2K test beam at CERN (T9 beam line). Similar Micromegas modules like the ones Paul is building now for the November test beam have been tested there. A

preliminary analysis has started. A good e- μ separation was observed and with 30 cm long tracks a dE/dx resolution of 10-11 % was measured at 0.5-1 GeV/c. T2K is planning to do a test beam at DESY with the PCMAG. Since the modules are larger than ours (42*36 cm²) they will build a new field cage.

Jan mentioned that the Nikhef and the Bonn groups are preparing a test beam at ELSA with a new Timepix3-based GridPixes. From 4.-8.10. a new design of a quad (4 GridPixes) will be tested. Sofar, the quad has been studied with a laser setup at Nikhef.

AOB:

The next workpackage meeting will take place on October 4th.