

Minutes of WP-meeting 216

Attendance:

DESY: Ties Behnke, Oleksiy Fedorchuk, Leif Jönsson, Paul Malek, Felix Müller, Annika Vauth
Fuzebox: Alain Bellerive, Madhu Dixit, Keisuke Fujii, Serguei Ganjour, Katsuma Ikematsu, Jochen Kaminski, Rashid Mehdiyev, Volker Prah, Ron Settles, Akira Sugiyama, Junping Tian, Jan Timmermans

General News:

Jochen reminded everyone about the Collaboration Meeting that will take place on April 20th and 21st at KEK. A discussion on the agenda followed and some suggestions on presentations were made. But Jochen will contact possible speakers and prepare the indico agenda.

PCMAG/LP setup, test beam:

Ralf: PCMAG/TRACI/test beam area:

- The area is occupied now by the Bonn group that is preparing their test beam campaign.

News from the groups:

Serguei and Rashid reported on the Micromegas testbeam which ended on Monday. At first there were some problems:

- the LC power supplies used so far have disappeared,
- the cooling system developed a short and cooling was at one time too strong, so that the pipes were frozen,
- there were problems with the moving stage, which could not be positioned that the beam is close to the cathode
- on one module the HV connection was damaged and the module had to be replaced
- a second module (a black diamond) could not be operated at full voltage (370 V instead of 380 V)

All of these problems could be solved, the number of disconnected channels was lower than 5 % and a large data set could be recorded. The data set includes z-scans (up to 50 cm) at B=0T and B=1T, θ -scan, vertical movements to scan various parts of the modules, scan of peaking time, beam energy and a lowering of the thresholds (standard: 4.5σ , lower threshold 3.0σ) to see if more adjacent pads could be observed.

The θ -scan is interesting because of the longer track length more charge is collected on each pad row, which could improve the transverse spatial resolution but degrades the longitudinal spatial resolution if not reintegration method is used, because of the different drift length. With the DESY modules a scan of up to 15° could be performed, the MM data set goes up to 30° . Both data sets were limited by cable length, the stage can turn up to 45° .

AOB:

The next workpackage meeting will take place on April 2nd.