

Minutes of WP-meeting 257

Attendance:

DESY: Ties Behnke, Ulrich Einhaus, Oleksiy Fedorchuk, Uwe Krämer, Paul Malek, Felix Müller, Lisa Waldmüller

Vidyo: Paul Colas, Keisuke Fujii, Jochen Kaminski, Tomohisa Ogawa, Amir Shirazi, Ron Settles, Akira Sugiyama, Jan Timmermans

General News:

The upcoming conferences were discussed. The TIPP and MPGD are in the same week. The date of the AWLC has been fixed, it is the last week of June. The style is under discussion, but most likely it is also omnibus style and the LCTPC-CM will then be on June 26th and 27th.

News from the groups:

Amir gave a short summary of activities in Siegen. He is working on a simulation and track finding algorithm for GridPix data. The track finding is based on a Bivariate normal distribution to combine hits in the Hough space. A second project studies new types of GEMs. One type has a ceramic insulator between the electrodes. The other has a carbon coating of the copper electrodes.

Akira summarized the activities in Saga. Since there is no budget, his group is concentrating on the simulation of the gate device and they are developing a cooling concept for an SALTRO-based module.

Jochen mentioned, that he had contacted Coimbra, asking, if they could make the detailed study of the ion drift velocity. They very happily agreed, but want to finish first the gas mixtures they are working on now. This will take another 3 months. Then they will start with dual mixtures of Ar/CF₄ and Ar/isoButane to understand the physics of these mixtures. Then they will go to the triple gas mixture, which is a first time for them.

Paul reported that he had received a gating GEM from Saga during the LCWS. He has mounted it on top of a Micromegas. The detector is at CERN in the GDD/RD51-lab. With an X-ray tube (Cu target), the Asian measurements were reproduced. There are uncertainties of 2-3 percent. The measurements seem to be in fair agreement with the Japanese measurement, the small differences still have to be understood (the gaps and the voltages are as in the Japanese setup. Paul asked Akira if he can get the simulation program to play with it and understand uncertainties. Akira accepted. As a next step the GDD group will use a gating GEM on top of a GEM stack and repeat the measurements (but in their setup the gaps are 3mm instead of 9.1 and 17). A student will work on these measurements from mid-May to July.

AOB:

The next workpackage meeting will take place on February 9th.