

# Minutes of WP-meeting 261

## Attendance:

DESY: Ralf Diener, Leif Jönsson, Claus Kleinwort, Dimitra Tsionou

Vidyo: Paul Colas, Jochen Kaminski, Ron Settles, Akira Sugiyama, Jan Timmermans

## General News:

Next week the AIDA2020 meeting takes place. Leif and Dimitra will go.

Ralf announced that the GEM paper is through the proof reading process and it is now available (see link at indico page). The printing will still take a while. Paul said the analysis for the MM papers is finished, but the plots are not yet in a final format and writing still has to start. Unfortunately, other projects have at the moment a higher priority.

## PCMAG/LP setup, test beam:

Ralf: PCMAG/test beam area:

- When breaking the stage drivers also damaged some other components. Therefore, the replacements takes some more time, but no users are asking for the PCMAG, so no hurry is necessary.

LP:

- There new field cage is still under way. Some space in a grey room is now available and drawings for the tooling are ready. Unfortunately, additional personnel was not approved.

## News from the groups:

Leif reported that the work on the SALTRO readout is progressing slowly. Soon, the collaboration has to decide on buying SRUs. Each SRU is necessary for reading out up to 40 MCM boards, that is about 5000 channels. So, for 10,000 channels 2 SRUs are necessary. For more channels a third SRU is needed. Each SRU costs about 4000 €. The programming of the SRU is done and the system works in principle, but someone is needed to improve the system and develop it further.

The redesign of the prototype MCM boards is done and new sockets to test the MCM boards have been ordered. The testing of the ASICs will soon be ready and a first pre-series is expected to be ready in the middle of May.

Paul is working on transparency measurements of Micromegas and gating devices. He is also in contact with the T2K experiment. The experiment wants to upgrade its TPCs. To study and lower some systematic effects they want to change their readout modules slightly and are considering Micromegas with a resistive layer. With these they could have larger pads, but still a better spatial resolution. Ryo will leave Saclay in August, because he got a position in Japan.

The INSTR17 talk of Paul was discussed and is available at the lctpc webpage now. It would be very welcome, if other people also send their talks to Ralf, so the webpage could be updated with the newest presentations.

Paul also reported, that higher luminosity is being discussed from the beginning and a repetition rate of 10 Hz instead of 5 Hz is considered to be used at an earlier stage. This has no direct impact of the working principle of the TPC. Also gating should still work. The effect on power pulsing and cooling still has to be studied, but also here the effect may not be significant.

Akira said that the fiscal year is drawing to a close in Japan and this means a lot of work and renewed

hope for higher budget in the coming months. Two Master students have finished their analysis of the last test beam campaign. They will be asked to show their results in the next WPmtg. The gating device is working very well and no or very little degradation was observed.

AOB:

The next workpackage meeting will take place on April 13<sup>th</sup>.