

Minutes of WP-meeting 381

Attendance:

Zoom: Paul Colas, Ralf Diener, Keisuke Fujii, Serguei Ganjour, Jochen Kaminski, Peter Kluit, Jurina Nakajima, Shinya Narita, Huirong Qi, Oliver Schäfer, Ron Settles, Jan Timmermans, Maxim Titov,

General News:

At the beginning the ongoing CEPC-WS (<https://indico.ihep.ac.cn/event/17020/>) was discussed. There were several talks from the TPC group. Amongst other Paul has given a talk on the new ILD strategy and consequences on ILD tracking. He also showed a slide from Manqi Ruan discussing the electric field of a bunch as a potential background signal. But it was generally agreed, that the inner field cage will shield this effect from the TPC readout. Paul also showed a comparison of the pair background expected at the ILC and FCCee (by Emmanuel Perez). Peter Kluit gave a presentation on the pixelTPC. There were also three sessions on PID, where Uli gave a presentation. In another presentation it was shown, that a dN/dx resolution of below 3 % would be possible, if cluster counting could be fully exploited. This would be very useful for the Z-peak running.

Ralf reported that the changes in the DESY-GEM paper were accepted and the paper is now in type setting. It will be published open access. The MM paper is still not ready.

Jochen will initiate the planning process for the next CM.

PCMAG/LP setup, test beam:

Ralf: LP:

- The work on the second field cage is delayed, because of the lack of kapton foil. It has been ordered, but the delivery is delayed.

News from the groups:

Paul reported that the reason for the conductivity of the version-0 field cage of the T2K detector has been found. The layer glued directly on the field strips was cleaned with an antistatic product. This led to a permanent conductivity of the layer which is in the order of $1M\Omega/\square$ instead of $1T\Omega/\square$. The next field cage (version 1) is being built now.

Jurina will arrive at Saclay on the 3rd of November and will stay for 2 years.

Peter gave a rehearsal talk for his second presentation at the CEPC WS. In this presentation Peter discussed the differences of operating a TPC at the ILC and at the CEPC and lists the open questions which have to be addressed by simulation.

AOB:

The next workpackage meeting will take place on November 10th.