

## Minutes of WP-meeting 307

### Attendance:

DESY: Leif Jönsson, Uwe Krämer, Paul Malek, Oliver Schäfer

Vidyo: Yumi Aoki, Paul Colas, Ulrich Einhaus, Keisuke Fujii, Qi Huirong, Jochen Kaminski, Kees Ligtenberg, Tomohisa Ogawa, Ron Settles, Akira Sugiyama, Jan Timmermans, Maxim Titov

### General News:

Paul showed the plots, which had been prepared by Paul M., Tomohisa, Peter and others for the IDR. The spatial resolution and the  $dE/dx$  measurements are very similar for all technologies. For the GridPix, also the truncated mean was used to keep the data as comparable as possible. In the text, it will be explained, that improved algorithms aiming for electron or cluster counting give better results. In principle the separation power would be a more relevant figure of merit, however, this would rely strongly on simulations, and not only on measurements. Therefore, the  $dE/dx$  was chosen. Also, the current status of the IDR was discussed and the TPC relevant pages were presented.

Maxim reported on the progress of the ILC project. There will be a meeting of high ranking Japanese officials (including 3 diet members); MEXT officer, AAA and Local Tohoku area representatives, and physicists to France and Germany at the beginning of July to facilitate discussions at the political and governmental levels. He also added some more thoughts about the Granada meeting. First, that all four future  $e+e-$  collider options are relatively equal as far as the expected precision in the Higgs measurements are concerned, which is good for the ILC, since it is the most advanced project technology-wise. Second, some accelerator-based experts have mentioned that the muon collider concept might be ready by 2040-2045, if a major lab would take the lead in the development, and finally that there was a large interest in Granada, that the generic detector R&D is supported more strongly and not only project oriented hardware research. It was mentioned, that up to 20 % of the funding should be spent on R&D and more R&D collaborations like LCTPC should be founded.

One of the next larger conferences is the instrumentation conference in Novosibirsk in early 2020. Please, consider giving a LCTPC talk there.

### PCMAG/LP setup, test beam:

Oliver: PCMAG/TRACI/test beam area:

- Everything is prepared for Paul's test beam (see below).

### News from the groups:

Paul reported, that the Saclay T2K team will have a test beam from 11.-22.6.2019 at DESY. The modules are very similar to the ILD ones tested by Paul in November. As field cage the Saclay chamber with a maximum drift length of 15 cm will be used. The Saclay TPC will be inside PCMAG, but only  $B = 0.2$  T will be used. Since some high inductances are used for supplying the electronics with LV, the effect of the magnetic field is still not known and is one important part of the tests. The final electronics of T2K will not contain these components.

### AOB:

The DESY group is still looking for confirmation of any contributions to the lab courses of the EDIT

school from 17-28.2.2020.

The next workpackage meeting will take place on June 27<sup>th</sup>.