

Minutes of WP-meeting 405

Attendance:

Zoom: Paul Colas, Ralf Diener, Ritsuya Hosokawa, Jochen Kaminski, Claus Kleinwort, Shinya Narita, Huirong Qi, Jan Timmermans

General News:

Jochen discussed the next LCTPC-CM. There will be an ILD-CM on January 17th and 18th at CERN. During the meeting, the future of ILD will be discussed. There will be also a session on tracking. The indico can be found here: <https://agenda.linearcollider.org/event/10211>. It is a possibility to have the LCTPC-CM either before or afterwards at CERN – possibly only for one day.

Paul mentioned, that there will be an FCC-France meeting soon in Strasbourg. Daniel Jeans will present his latest work on the feasibility of using a TPC by a remote presentation. The FCC feasibility study will release the half way report at the end of 2023 or early 2024.

The last RD51-Meeting will take place from 4.-8.12.2023 at CERN. (<https://indico.cern.ch/event/1327482/>) There will also be a DRD1 meeting on Friday afternoon.

Huirong reminded that the CEPC-TDR for the accelerator will be released soon and that it can be signed by anyone on the following web page: <https://indico.ihep.ac.cn/event/20817/registrations/1668/>. Then the CEPC-TDR on physics and detectors will be written. It should be finished on October 2024, reviewed by an international committee and released to the public in May 2025. The current timeline foresees first 10 years of running at the Higgs threshold (~240-250 GeV), then 2 years at the Z-pole and finally 1 year at the W production threshold. This would be very good for the TPC option as backgrounds are expected to be smallest at the Higgs energy. As 2024 will be a very important year for the CEPC, Huirong is advertising also the Hong Kong conference in January 2024. The CEPC will be discussed from 21st to 26th and some attendance from LCTPC would be very welcome.

News from the groups:

Paul reported that the bottom T2K-TPC has taken data of cosmic rays. Today the magnet was also closed and from now on the data can be taken with magnetic field. In 2 weeks the beam will also be available and system tests of ½ of the full detector can be done with the beam.

Iwate, Saclay and CERN have started a new project to study a thin graphene layer as ion blocking device. First tests had been done by Florian Brunbauer of the GDD group some years ago, but techniques of the graphene handling were not advanced enough.

Jochen said that first steps towards a GridPix built in Bonn were done: A pillar structure made of SU8 was successfully produced on a bare silicon wafer. More machines have to be commissioned for the full process.

AOB:

The next workpackage meeting will take place on November 30th.