

Minutes of WP-meeting 336

Attendance:

Zoom: Yumi Aoki, Paul Colas, Ralf Diener, Ulrich Einhaus, Keisuke Fujii, Serguei Ganjour, Jochen Kaminski, Kees Ligtenberg, Jurina Nakajima, Shinya Narita, Tomohisa Ogawa, Oliver Schäfer, Ron Settles, Akira Sugiyama, Jan Timmermans, Maxim Titov, Keita Yumino

General News:

Jochen mentioned, that next week there will be an RD51 meeting with a topical workshop on New Horizons in TPCs. If you are interested, you have to register at

<https://indico.cern.ch/event/889369/timetable/#20201008>

The schedule contains presentations on basics on the first days, then on performance and systems and finally on applications like medical and non accelerator-based experiments. There are also 3 presentations from LCTPC.

Further meetings regarding detector R&D are summarized on slides by Paul.

There were two ILC Europe phone meetings organized by Steiner

(<https://agenda.linearcollider.org/event/8652/>)

There will be the AWLC on October 19th -22nd at SLAC. LCTPC was asked to give a presentation. Any volunteers are welcome.

There will be a meeting on the implementation of the European strategy regarding the detector R&D. This will be done by the Detector R&D roadmap panel, which will organize 9 task forces, of which TF#1 (Gaseous detectors), TF#7(electronics) and TF#8(integration) are likely the most interesting for our collaboration.

Maxim summarized shortly the slides by Steiner at the ILC Europe phone meeting: The IDT has formed three working groups: WG1 for the pre-lab setup, WG2 dealing with the accelerator and WG3 with physics and detectors. Everyone interested in the discussion can subscribe to the mailing lists at DESY and participate in the upcoming events on 4.11., 5.12., and 13.1. Many aspects will also be covered in the AWLC. Some time next fall, there will also be an LCWS again, where more ideas will be discussed and a first light weight call of interest is expected. Lately new idea such like a fixed target experiment with the extracted e^- or e^+ beam have been mentioned.

Keisuke explained the developments in Japan: KEK hopes, that by April 2022 the IDT ends and the prelab phase will start. This coincides with the new fiscal year in Japan. He hopes that the budget request submitted in 2021 will be approved. This could cover a large fraction of the 230-240 million \$ needed the 4 years of the prelab phase. Before an government agreement is reached with other states, very little contributions can be expected from Europe or the US.

News from the groups:

Paul had to cancel his test beam on September 18th, as it was not clear, that he could enter DESY. The test centers in Paris are overloaded and the delay until notification was too long to guarantee a timely result before the test beam. Paul also mentioned that the new 3D printed cooling unit is ready and he showed some pictures. To test it, he has to come to DESY and use TRACI. He will probably come some time in February/March and do this most likely just as an electronics test without gas and e-beam. Finally, Saclay has started a project with Marco Bregant in Sao Paulo to develop a successor ASIC of SAMPA, which could also be interesting for LCTPC.

Jan said, that it is not clear yet, if the GrdiPix test beam will take place from October 19th to November 2nd. On the one side there are good news from the electronics. The system with the concentrator is working now and data can be taken. Peter and Kees are preparing to take data with the laser in the coming weeks at Nikhef. On the other the political situation with the COVID19 pandemia does not allow any predictions. The Dutch government announced stricter rules and most people at Nikhef are urged to work from home. New regulations are expected that only persons with exceptional permissions are allowed to work at Nikhef. As far as the trip to DESY is concerned, this seems possible under the current regulations, but only for persons below the retirement age. DESY is not encouraging people above 65 to enter. This is not written for fear of discrimination suits, but the DESY director strongly propagates this approach. Also, in Germany new laws are discussed. This would require anyone from a high risk area to go to quarantine for 5 days before taking a test.

Oliver reported that there is progress in the construction of the 2nd field cage. A dry test was done last week, and everything turned out well. For the coming weeks some gluing tests and HV tests are scheduled, in particular it will be tested, if the outer shielding foil can be glued to the honeycombs. This will be done with test sample, of course. Also a tether foil has to be allocated, because it is needed during the construction process.

AOB:

There will be a meeting on October 12th to discuss the presentation to ILD on the 13th.
The next workpackage meeting will take place on October 15th.