

Minutes of WP-meeting 325

Attendance:

Yumi Aoki, Paul Colas, Ralf Diener, Ulrich Einhaus, Keisuke Fujii, Serguei Ganjour, Qi Huirong, Leif Jönsson, Shivam Joshi, Jochen Kaminski, Jurina Nakajima, Shinya Narita, Tomohisa Ogawa, Oliver Schäfer, Ron Settles, Akira Sugiyama, Jan Timmermans, Maxim Titov, Keita Yumino

General News:

Jochen reminded everyone to read the Detector R&D liaison report. Any comments and in particular updates should be sent to the contact persons, which are mentioned at the beginning of the chapter (for GridPix please send it to Jochen instead of Klaus). Please, also have a look at the table on the last page and see, if it has to be updated. Maxim mentioned that this will be the last version of the report as the mandate of LCC and LCB ends at the end of June and, thus also the mandate of Jan and Maxim as detector liaisons will end. The corrections/updates should be sent to Maxim/Jan in either latex or Word format.

Maxim reported that many activities in Europe and the US have been put on hold these days. The LCB meeting took place this week to discuss the next steps and the new structure/timescale for the transition period.

News from the groups:

Jan said that at Nikhef the situation is unchanged: Work in the lab is very difficult and Fred was not allowed to do the measurements he had planned. Therefore, progress is very slow, in particular on the full readout. Some errors are not yet understood. There are some ideas of how to solve them and they are being tested by Kees and Peter as soon as possible.

Huirong said that the situation in China is getting better, but the recovery is still slow. All students of the university have to stay at home, but the institutes, shops and restaurants are open now. The next months will show, if a second wave will come. Two persons are newly infected now in Beijing, who have not been abroad, but must have been infected locally. So, the situation is still delicate. All meetings at IHEP have been selected to be video meetings. Some experiments and tests will obviously be delayed.

Jochen also stated that the situation at the University of Bonn is the same, but in Germany a slow exit from some restrictions are planned. Small shops can open starting on April 20th and the schools will start on May 4th for some students of the last school year.

Paul reported that universities in France are closed and so is Saclay. Nevertheless, people are working from home and the LCTPC group has regular meetings on the Micromegas paper and thanks to Tomohisa among others there is a lot of progress. Also, a paper on the field distortions is being started now in collaboration with Purba and Deb Sankar, who are doing an improved simulation of the field distortions around the module.

Ralf said that at DESY the Corona-related research has highest priority, therefore PETRA III is running and some parasitic test beams at PETRA III would be possible, but no-one is using it at the moment, because of the travel restrictions.

Leif mentioned, that Sweden is trying to avoid a complete shutdown. So, the institute is still open, however, the students have only online lectures and stay at home. As everyone of the LCTPC group is retired and thus of a high risk group, all group member stay at home. But there are regular video meetings and currently the design of the LV board is under discussion. New PCBs have been ordered and are planned to be delivered on 8.5.

Keisuke said that KEK is on the verge of shutting down. The machines like SuperKEKB are still running, and the operations crew is still there, but more and more people are encourage to stay home. At the moment more than 50 % of the people work from home. Also Keisuke has been teleworking from home since Monday.

Akira added that at the University of Saga the students also have to take online lectures, but everything else is as normal.

Shinya added that at Iwate there are no infections and currently the students are supposed to have regular lectures once the semester starts.

Ron reported that the MPI is still closed.

Uli said that a new Monte Carlo mass production is planned. For this a test production has been finished and is scrutinized at the moment. He is looking in the energy resolution and comparing the new results with the one from the 2018 mass production. He has observed a difference in the energy resolution of dE/dx with respect to the old data. This is expected as Geant has changed the energy deposition along a track. To have some agreement with the test beam results the Geant output has to be smeared and this fudge factor has to be readjusted. However, he has also observed that the difference in the dE/dx resolution between the particle species changed from 0.2% to more than 0.6 %. Even when comparing only hadronic particles like π and K this difference remained. He was asking whether anyone knew about a physics reason for this, but everyone agreed, that this is probably unphysical. Uli will prepare the dE/dx vs. $\beta\gamma$ -plot and the subject will be rediscussed next time.

AOB:

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