

## Minutes of WP-meeting 267

### Attendance:

DESY: Ralf Diener, Oleksiy Fedorchuk, Leif Jönsson, Paul Malek, Oliver Schäfer

Vidyo: Keisuke Fujii, Qi Huirong, Jochen Kaminski, Aiko Shoji, Ron Settles, Akira Sugiyama, Jan Timmermans

### General News:

Jochen mentioned, that a Test Beam User Workshop will take place at DESY on October 5<sup>th</sup> and 6<sup>th</sup>. Someone from LCTPC should report on our activities, in particular on our wishes for an upgrade program. For the same reason, also a survey will be done before. If you have any requests, please mail to Jochen, who will collect them and we can discuss our strategy in one of the upcoming WPmtgs. It seems also other particle types ( $\pi$ ,  $\mu$ ) are possible, if sufficient requests are submitted.

### PCMAG/LP setup, test beam:

Ralf: PCMAG/TRACI/test beam area:

- ATLAS has been using the TRACI in the last weeks. Several minor problems were identified and could be fixed with remote support from Lukasz and Bart: 1 cable was broken and fuses blew. The problem of the fuses was due to cables inside the thermal insulation laid too close to the piping and accumulators. The humidity condensed on the cable during cool down. This led to leakage currents in the cables and finally blew the fuses. Now TRACI is running again smoothly.
- Oliver reported that the limited reproducibility of the stage position was not yet followed up, but could be easily avoided. It occurs only, when the direction of the movement is changed and it is only a 0.3 mm displacement. If the stage is, however, moved on the return path too far on purpose and then the original position is approached from the same direction as before, the reproducibility is very good.

### News from the groups:

Keisuke reported from the AWLC2017. Peter's presentation was well received and no concerns about the R&D status of the TPC were raised. As far as the ILC project is concerned the major point of discussion was the staging scenario, in particular the initial 250 GeV stage. There were several presentations and vivid discussions. It seems that the staging is absolutely necessary to get the ILC approved. The lower initial costs are very important for this. The current 1-1.5 years are a crucial period for the ILC concerning the political development. If the staging scenario is approved by ICFA, it will be presented to the MEXT ILC Advisory Panel and an official final statement is expected next year. Since many HEP strategy discussions in Europe, northern America and Asia are planned for next year, this statement is planned to be ready before the strategy meetings will take place.

From the physics point of view, the staging has also received new support, since new theoretical calculations are available now, with which the precise Higgs (in particular Higgs coupling) measurements can be used to extend the sensitivity to many new physics models beyond the reach of HL-LHC. So the physics case for a 250 GeV machine is very strong, but one has to be careful to state that the polarization available at the ILC is essential for these measurements and a circular machine like FCCee or the Chinese project would not have the same sensitivity by far.

As far as the JSPS grant is concerned, Keisuke has not received any notification. He is also starting to apply for an increased fund from IPNS.

Ralf reported on the preparations for building a second field cage. He showed a model of the new mandrel and explained which parts had been improved with respect to the first version. The repeated use of the mandrel is ensured by constructing the area of support from metallic T-bars, which are milled to the correct shape. By removing and reinserting these bars, the original shape can be regained. Tests for gluing and testing the gluing procedure are ongoing, but have shown so far, that the material budget of LP1 is somewhat optimistic because more glue has probably been used.

AOB:

The next workpackage meeting will take place on July 20<sup>th</sup>.