Minutes of WP-meeting 231

Attendance:
DESY: Ties Behnke, Ulrich Einhaus, Oleksiy Fedorchuk, Claus Kleinwort, Paul Malek, Felix Müller, Oliver Schäfer, Dimitra Tsionou
Fuzebox: Alain Bellerieve, Paul Colas, Keisuke Fujii, Katsumasa Ikematsu, Leif Jönsson, Jochen Kaminski, Takeshi Matsuda, Amir Shirazi, Ron Settles, Akira Sugiyama, Junping Tian, Jan Timmermans

General News:
Paul gave a summary of the LCWS 2015 as far as ILD tracking and LCTPC were concerned. He first gave the latest time line according which the construction will start 7 years after a positive decision and the physics program can start another 9 years later. A more detailed time line shows that the tracker will be installed only at the very end and, therefore, immediate decisions (e.g. technology, electronics) are not required. On an ILD(-tracker) scale the discussion on the necessity and implementation of an Anti-DID magnet is more urgent. Previous ILD simulations have shown, that without the Anti-DID too much background will enter the detector, but SiD claims that with an enlarged opening of the calorimeter, background levels should be acceptable and the Anti-DID could be removed. There are however some concerns, if these simulations are also applicable to ILD and if the enlarged keystone opening in the calorimeter would not degrade the hermiticity of the detector too much. There were some interesting news from the silicon part of the tracker. In particular the cooling with microchannels inside the silicon sounds very interesting and should be looked at, if we could profit from this.
Paul also reported from the Detector Advisory Panel led by Paul Grannis. This was only a very light weight review and no feedback was given. It was also discussed, when the next review process should take place. The answer from ILD/SiD was that because of the limited manpower it would make sense only after a positive decision in Japan. The R&D collaborations might benefit from an earlier review process, but not before summer 2017. Paul also gave a few more dates of next meetings and reported from the ILD institute assembly.

Dimitra also reported shortly from her presentation, there was some feedback from Marc Winter regarding the external tracking device. While the pixel detectors give excellent spatial resolution, they can not cover an area as large as is planned. Therefore an alternative option is to use a prototype silicon strip detector of SiD (including the readout). Dimitra will present the current status of planning with new simulations in the next Wpmtg.

The last item of the meeting was a discussion on the liaison report. Ties explained, that this should be looked at as a register of ongoing R&D. In particular, new groups joining the R&D should have a complete and concise overview, what is worked on, where no work is done and which effort they would like to join. Also the contact groups should be mentioned. There is however some confusion in the TPC community on how this report is structured. Maxim had contacted several people and asked for some document describing the work of their institute. During the WPmtg the concerned was raised, that the organization of the report along institutes was not best, because the work of smaller institutes might be overlooked. Therefore, LCTPC should organize its section by itself along the technology lines. Jochen will make a template with the section layout. This will be placed in a svn-repository at DESY and distributed to group leaders, who can then check and modify the text.

AOB:

The next workpackage meeting will take place on November 26th.