Minutes of WP-meeting 317

Attendance:
DESY: Ulrich Einhaus, Oliver Schäfer
Vidyo: Yumi Aoki, Paul Colas, Keisuke Fujii, Qi Huirong, Jochen Kaminski, Peter Kluit, Kees Ligtenberg, Tomohisa Ogawa, Ron Settles, Akira Sugiyama, Jan Timmermans, Maxim Titov, Keita Yumino

General News:
Jochen announced that the doodle poll regarding the date of the collaboration meeting was very clear: From the 12 people participating in the vote 11 could come on 13.-15.1. and thus the first option was chosen. In a next step the site will be chosen. DESY and Nikhef offered to organize the meeting. Paul will see, if there is a chance to do it in Paris, which would be easier for the Japanese colleagues to find funds.

There will be an ILD telephone meeting on December 3rd during which the subdetectors are asked to present their R&D program for the next 2 years. Jochen agreed to give his presentation.

Paul reported that he attended an FCC-France meeting last week to catch up on new developments. He mentioned in particular the development of very thin solenoid magnets. As an example a design of a B=2.5T magnet with a wall thickness of 0.5 X_0 an 0.15 λ was discussed and if this could influence the design of ILC detectors.

Huironq summarized the CEPC workshop which had taken place earlier this week in Beijing. In particular he presented a possible timeline, which foresees a government approval at the end of 2021 and start of data taking in 2030. Also, 6 site candidates were presented and the updates on the parameters of the collider ring were summarized. The new numbers lead to some discussion about the ion backflow, the number of primary ions and the necessity of a gating device. Peter Kluit had prepared slides on this topic. He argued, that because of the rate of Z-production, a gating was possible, but not necessary, as the number of Z's and the generated primary ions are few enough to cause track distortions of less than 5 µm. Even at IBFs $\approx$ 5 secondary ions would cause an estimated distortions of 80 µm. All of these calculations, however, neglect any background like $\gamma\gamma$ events. For several reasons a pixelTPC is very attractive. For example the occupancy can be better handled with a pixel readout.

News from the groups:
Jan reported that it was very difficult to have the multi-quad readout ready and well tested in time for the possible test beam at the beginning of December. That is why the test beam was canceled and Jan is looking for a new date at the beginning of next year. The multi-quad readout is now working in the simulation mode and will be tested in the lab next week.

AOB:
The next workpackage meeting will take place on December 5th.