

Minutes of WP-meeting 394

Attendance:

Zoom: Paul Colas, Ulrich Einhaus, Jochen Kaminski, Shinya Narita, Huirong Qi, Oliver Schäfer, Ron Settles, Jan Timmermans

General News:

At the LCWS both talks by Uli and Peter were well received and questions were asked. The next update of Uli's work will be given at the ECFA-WS. At the end of the ILD meeting, there was a discussion time. During this discussion Graham Wilson suggested to update the simulation model of ILD. In particular he mentioned to include the pixelTPC in the simulation package and potentially make it the default detector. Also other subdetectors could be updated, like the vertex detector, where the material budget could be reduced according to the latest estimates.

At the end of the LCWS there was a very strong statement to the P5 panel circulated

<https://indico.slac.stanford.edu/event/7467/page/61-statement-to-p5>

There are also new plans to build an asymmetric linear e^+e^- Higgs factory: the electron beam is accelerated by a multi-stage plasma wakefield accelerator to several hundred GeV. The positrons are accelerated by a conventional accelerator to 30 GeV resulting in a center of mass energy of 250 GeV.

Our Ukrainian collaborators from Kiev are applying for EU-funds (program called Eurizon) which supports Ukrainian groups. The proposal is coordinated by Nikhef (Peter Kluit) and DESY (Jenny List) and suggests to implement the pixelTPC and analysis tools in Marlin. Unfortunately, the duration is only for one year.

Huirong was asked about the status of the CEPC, but had no news. He mentioned, that the super-taucharm-factory was chosen to be the very first option. In particular the local government (Anhui province and Hefei city) have been pushing for the project and it was also strongly pushed by the USTC in Hefei. Another quantum computing mega-project is also at the same place. Nevertheless, CEPC and STCF proposals are competing to be considered in the government's 15th five-years plan (2024-2028). The CEPC accelerator TDR volume will be released in fall of this year.

Paul and Serguei have returned from Japan. They have been welcomed by Daniel Jeans and Shinya and have also been in contact with Takeshi Matsuda. There is also still a strong push from the local government in Iwate. However, there are also some developments, which are not so good: Both Makato and Keisuke were not attending the meetings and Daniel Jeans is the only staff member left at KEK, who is working on ILD. The experimental lab of the gaseous detector group has moved to Iwate, which is the last group actively engaged in gaseous detectors (TPC) for ILD.

The French-Japanese-Lab was continued and there are a few new projects mainly focusing on IBF suppression: The Japanese will build a Micromegas and GEM-hybrid module and Serguei will study graphene-layers as gating-devices. The French-Japanese Lab offers unfortunately only some travel money and has to be matched with money for hardware by the groups.

AOB:

The next workpackage meeting will take place on June 15th.