

## Minutes of WP-meeting 350

### Attendance:

Zoom: Yumi Aoki, Paul Colas, Ralf Diener, Serguei Ganjour, Jochen Kaminski, Claus Kleinwort, Peter Kluit, Uwe Krämer, Tomohisa Ogawa, Huirong Qi, Oliver Schäfer, Ron Settles, Jan Timmermans, Maxim Titov

### General News:

Maxim announced, that the abstract for the EPS conference was accepted and that we need a speaker for the conference. Also the abstract for the IEEE-NSS/MIC was submitted and also for this one a speaker is looked for, in case the abstract is accepted. Since both conferences are online only, also younger collaboration members should consider going there.

Maxim also said that the IDT has published the first document 'Proposal for the ILC Preparatory Laboratory (Pre-lab)' ([arXiv:2106.00602](https://arxiv.org/abs/2106.00602)), which describes the preliminary idea for the organization and control of the pre-lab. This will be submitted along with the budget request to MEXT.

Paul reported from the ILD-Meeting which took place on 3<sup>rd</sup> and 4<sup>th</sup> of June. Mary-Cruz Fouz gave a report of the technical coordinators covering the TPC with 3 slides.

### PCMAG/LP setup, test beam:

Ralf: PCMAG/Test beam schedule:

- The magnet has cooled down and is ready for the test beams starting on Monday, the gas has been ordered and will arrive in time, the telescope coordinators have been contacted and in the loop, so everything is ready for the pixel group and the T2K test beams.

### News from the groups:

Paul is preparing the T2K test beam, which will take place after the pixel testbeam from June 14<sup>th</sup> to June 28<sup>th</sup>. The restrictions of maximal 8 people are most like still in place.

Peter gave a presentation on the the LCTPC-Pixel test beam. He showed the small detector which contains 32 GridPixes and has a drift distance of 4 cm. A EUDET-Mimosa telescope will be used to have an external tracking reference. The plan is to use the DESY telescope Azalea, but Jochen will bring the Anemone telescope from Bonn as a backup. The whole setup will be placed inside PCMAG, so that the GridPix detector can also be tested in the magnetic field. Peter showed also several pictures of the testing procedure with a mock up and explained how commissioning was done. The complete setup was also tested in a B = 1 T magnet to ensure, that the everything is compatible with high magnetic fields. Further tests included radioactive sources and laser beams. Now everything is ready and packed for the test beam.

### AOB:

The next workpackage meeting will take place on June 24<sup>th</sup>.

Jan, Ron and Takeshi Matsuda had noticed, that during the ILD Meeting, Claude Vallee ([https://agenda.linearcollider.org/event/9199/contributions/47881/attachments/36786/57544/input\\_discussion\\_CV.pdf](https://agenda.linearcollider.org/event/9199/contributions/47881/attachments/36786/57544/input_discussion_CV.pdf)) had posed two questions at the end of the talk:

- Openness to new groups proposing a full Si tracker option ?
  - Take initiative for a detailed comparison of the TPC & Si tracker options ?
- (possible now from ILD-S/CLICdp comparison)

As this had been discussed several times before, there was some irritation about these questions to be raised again. There were different opinions on the reason why. The most prominent one is that Claude wanted to include American groups to join the ILC/ILD effort. As the Americans are traditionally more into silicon tracking, the advent of new people is likely to raise the old question again. This might be intensified, in case the American groups get funding significantly earlier than the European groups and would then start pushing to a silicon tracker. The relevant timeline for decisions is given by the documents needed:

EOI (expression of interest) in about one year, a very lightweight document to do a first selection of ideas

LOI (letter of intent) in about two to three years. This is where a first sort out starts. This document would have to be more complete and would need a more credible combined performance study

There are also two silicon detectors in ILD, which are not being worked on at the moment: SIT (silicon inner tracker) and SET (silicon external tracker). So, new groups joining would be more than welcome to develop prototypes for these detectors.