

Minutes of WP-meeting 428

Attendance:

Zoom: Paul Colas, Jochen Kaminski, Ron Settles, Jan Timmermans, Kanako Watanabe

General News:

The next LCTPC CM meeting was discussed. It was decided to have it end of January (29th - 31st) in Bonn. Jochen will organize a tour through the FTD to show the new labs in the afternoon. Scientific talks will be in the mornings, so that colleagues from more eastern time zones can attend. Paul will ask Alexander Schmäh from GSI, who is leading the ALICE effort of correcting the field distortions. The last talk he had given at the DRD1-CM is here:

https://indico.cern.ch/event/1442324/contributions/6220933/attachments/2982504/5253234/ASchmah_TPC_SCD_DRD1_2024_V3.pdf

From January 8th to 10th there will be a workshop 'LC vision' at CERN in the big theater. This workshop will promote to have a linear collider at CERN as the next big project. Everyone is invited to attend to show the interest and support of the LC in Europe (<https://indico.cern.ch/event/1471891/>). During the LC Europe meeting: Lyn Evans expressed a pessimistic personal opinion about the FCC as the construction time would be 40 years.

Paul mentioned that Daniel Jeans had shown in the ILC software and analysis meeting this week a new simulation study for the FCCee backgrounds at Tera-Z. He had optimized the collision region and had reduced the background by one order of magnitude (<https://agenda.linearcollider.org/event/10557/contributions/56005/attachments/40138/63634/TPC-BG-update-ild-swana-dec2024.pdf>). This is a very good news, but Paul thinks, we are still at least one order of magnitude too high to run a TPC.

Felix Sefkow is organizing an FCC physics and detector meeting from January 13th to 16th.

Jochen's talk on the last pixelTPC test beam was accepted for the VCI.

There was a paper on the sustainability of the ILC published. The highest contribution is the production of concrete.

News from the groups:

Jochen reported that he had just conducted a ~1 day test beam with a single Timepix-based GridPix in the local accelerator ELSA. The detector was set up, so that the beam passed through the cathode and the GridPix. Different small angles between the detector axis and particle tracks were measured. This will show, how good the pointing resolutions of the GridPix can be.

Paul said that there were some minor issues with the T2K field cage. There seems to be a gap of 8 mm between the cathode and the first strip. Therefore, there are some field distortions in the corners close to the cathode.

AOB:

The next workpackage meeting will take place on January 16th.