

## Minutes of WP-meeting 324

### Attendance:

Vidyo: David Attie, Yumi Aoki, Paul Colas, Ralf Diener, Ulrich Einhaus, Keisuke Fujii, Serguei Ganjour, Shivam Joshi, Jochen Kaminski, Uwe Krämer, Kees Ligtenberg, Paul Malek, Jurina Nakajima, Tomohisa Ogawa, Oliver Schäfer, Ron Settles, Akira Sugiyama, Jan Timmermans, Maxim Titov, Keita Yumino

### General News:

The situation with conferences was discussed. All conferences in the first half of the year have been canceled. It will be decided next week, if the ICHEP will take place. Maxim will submit an abstract for LCTPC to the IEEE in October in Boston.

Maxim addressed the current situation with the ILC project. Due to the COVID-19 pandemia, most of the discussions in Europe and US are being on-hold these days. LCB and KEK are working together towards the establishment of the "International Development Team" which will take over from the LCC/LCB this summer and facilitate transition towards the "ILC pre-lab" structure during the next 1,5-2 years. The American Linear Collider workshop, originally scheduled on June 22-26 at SLAC, is being postponed to September or Fall 2020. The importance of having regional LC workshop in the US is driven by the start of the US Snowmass strategy process in Spring 2021. The presentation of the European Strategy for Particle Physics to a wider audience, which was originally planned for May/June 2020, is being postponed; this might open the door to a new timeline for the finalization of the strategy. The impact of the pandemia and a new economic reality after the COVID19 for the ILC future can not be judged at this moment.

### News from the groups:

Saclay: Paul reported that the situation is unchanged: no one is allowed to enter Saclay. David succeeded to get a hard disc with data needed for data analysis. There is progress on the analysis of the test beam data and on writing the Micromegas paper. Shivam is studying the charge spreading and showed the signal shape based on analytical calculations with parameters of T2K, i.e. larger pads ( $11 \times 10 \text{ mm}^2$ ) and lower resistivity ( $400 \text{ k}\Omega/\square$ ) compared to the ILC values ( $3 \times 8 \text{ mm}^2$  and  $2.5 \text{ M}\Omega/\square$ ). He is also looking at the ghost tracks and tries to understand where they come from. The tracks are observed in 0.4% of all events and seem to contain only the charge of the next neighbors and not the central pads. It is not clear whether the charge is stored in the resistive layer or in the switched capacitor array of the electronics.

Nikhef: Jan mentioned there are the same restrictions as 2 weeks ago. The physicists are working mostly from home, but technicians still come in and work in the workshops. This situation will last at least until the 28<sup>th</sup> of April. Kees and Fred made some experiments with a 1% CS<sub>2</sub> admixture to Ar. This makes a negative ion TPC. They created signals with a laser. Analysis of the data is still ongoing, but they could measure the drift velocity (around  $v_d = 4 \text{ m/s}$ ) and the diffusion.

Bonn: Jochen said that also in Bonn the situation is unchanged, staff members can work in the office, if there is only one person per office, but all events for students are canceled. There is a large effort to give lectures with videos and hold exercise groups remotely via video conferences.

DESY: Ralf reported that the situation is unchanged, most people are working from home and the

resumption of the test beam is unclear. Oliver reported he continues to improve MarlinTPC. He reduced the number of compiler warnings from 3906 last time to 2122 now. He applied for a position of technical support of the test beam. So there is hope he can continue to support us.

MPI: Ron reported no changes from MPI.

KEK: Keisuke said that KEK is still open, but the infection rate in Tokyo is increasing rapidly. So, the city is on the verge of lockdown. As a consequence KEK has asked all staff members living in central Tokyo to work from home, but everyone living close to Tsukuba can still work at KEK.

Saga: Akira reported that the situation in his prefecture is getting worse (3 infected persons), but slower than in Tokyo. The start of the university lectures has been postponed by 2 weeks.

AOB:

The next workpackage meeting will take place on April 16<sup>th</sup>.