

## Minutes of WP-meeting 357

### Attendance:

Zoom: Paul Colas, Ralf Diener, Serguei Ganjour, Jochen Kaminski, Shinya Narita, Tomohisa Ogawa, Oliver Schäfer, Ron Settles, Jan Timmermans

### General News:

Uli has handed in his PhD thesis.

The PhD defense of Kees is on Tuesday 28<sup>th</sup> of September.

Shinya reported that there was no update on the situation in Japan since Keisuke's report in the ILD meeting. The Japanese general elections will be held in November.

Paul mentioned that there is some discussion, if a second E-JADE (Europe-Japan Accelerator Development Exchange Programme) proposal should be submitted to . The first one was targeted to accelerator development, but as the travel money could not be used, also physics and detector were using the program.

Paul also mentioned that the 'Symposium on Large TPCs for low-energy rare events detection' is planned to take place again from December 15<sup>th</sup> to 17<sup>th</sup> in person. Of course this still depends on the development of the pandemic situation. There will also be the possibility to connect remotely since the participants would need an EU vaccination pass, for which some vaccines are not qualified.

Paul also mentioned that the TPC option of the SAND detector (near detector of the DUNE project) was downselected for funding and political reasons. Instead a straw tube trackers built by INFN Frascati will be used.

Jan mentioned, that the abstract deadline for the VCI is on October 3<sup>rd</sup>. It was agreed, that a general LCTPC presentation is not necessary, but individual groups are encouraged to present their work.

### PCMAG/LP setup, test beam:

Ralf: Test beam schedule:

- Test beam is up and running. There are no changes in the COVID rules and none are expected soon.

### News from the groups:

Serguei and Paul will come to the test beam in October to test the 3D printed cooling modules mounted on one MM module with the AFTER electronics. The temperature of the electronics will be monitored by the temperature sensors, while the electronics is powered and the cooling units are connected to TRACI for 2pCO<sub>2</sub> cooling.

Oliver reported on his work on the field cage foil for the second LP. After the resistor were mounted on the foil, the resistance value between two strips was checked before Christmas 2020. It was observed that one value was off and closer observation showed discharges between two strips, where the kapton was also destroyed. Oliver repaired this spot with glue, but could not retest it because of the lockdown. After the lockdown he wanted to measure the resistance between the strips more systematically, but when using a digital multimeter he found several resistances fluctuating. He is using now the setup, which is based on the Wheatstone bridge and was used for selecting the resistors. Also, with this setup

the resistors were changing systematically to lower values. It is considered that some charge up process takes place and is superimposing the measurement. Next tests will include placing the field cage foil not on a highly resistive plastic foil, but either on a wooden table or an ESD protection mat.

AOB:

The next workpackage meeting will take place on October 7<sup>th</sup>.