



Contribution ID: 180

Type: Oral presentation (in person)

The Quest of Building a TPC Field Cage

Tuesday, 9 July 2024 12:00 (20 minutes)

For ILD, one of the detector concepts for the proposed International Linear Collider, a time projection chamber (TPC) is foreseen as the central tracking detector. The R&D effort within the LCTPC collaboration has been centred around a common infrastructure setup operated at the DESY II Test Beam Facility. This setup includes a large field cage as test bed for the different readout technologies to be studied under comparable conditions. A second iteration of this field cage has recently been constructed to improve on the shortcomings noticed with its predecessor. The construction was repeatedly delayed and interrupted due to the COVID-19 pandemic but these delays yielded insights that may not otherwise have been observed during an ordinary course of operations. Methods and findings from the build process will be reported.

Apply for poster award

Primary author: SCHAEFER, Oliver (DESY Hamburg)

Presenter: SCHAEFER, Oliver (DESY Hamburg)

Session Classification: Vertex, Tracking, Timing detectors

Track Classification: Physics and Detector: Vertex, Tracking, Timing