Contribution ID: **219** Type: **not specified**

A large area strip hodoscope based on the SiD strip tracker

Tuesday, 23 October 2018 14:00 (30 minutes)

The DESY II Test Beam Facility is one of few facilities around the world capable of providing multi GeV particle beams. It is, as such, a key component in current particle detector development including development of detectors for the International Linear Collider (ILC) .
As part of the AIDA2020 project, a new large area silicon hodoscope has been designed for installation at the DESY II Test Beam Facility. The sensor used in the hodoscope is based on the Silicon Detector (SiD) strip tracker which was successfully assembled at DESY. The hodoscope is to be used as the reference tracker for ongoing measurements of the Linear Collider Time Projection Chamber Collaboration to determine the achievable momentum resolution of their detector as part of ongoing research for the International Large Detector (ILD). In this talk, the current state of the hodoscope system as well as results from the first test beam with the SiD tracker sensor will be provided.

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Session Classification: VTX/TRK 2