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Characterisation of Timepix3 hybrid pixel detector assemblies and integration with the AIDA telescope

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A vertex detector concept based on the hybrid planar pixel detector technology is currently under development for the proposed Compact Linear Collider (CLIC). Assemblies using thin planar pixel sensors (50-300 um) hybridised with Timepix readout ASICs have been characterised in previous testbeams at DESY. In this talk we present the integration in the AIDA telescope infrastructure as well as measurements performed with new Timepix3 assemblies at the CERN PS and SPS.

Estimated length in minutes

20

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