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FASER Tracker Detector - Commissioning, Installation, and Functionality

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FASER (ForwArd Search ExpeRiment) fills the axial blindspot of other, radially arranged LHC experiments. It is installed 480 meters from the ATLAS interaction point, along the collision axis. FASER will search for new, long-lived particles that may be hidden in the collimated reaction products exiting ATLAS. The tracking detector is an essential component for observing LLP signals. FASER's tracking stations use silicon microstrip detectors to measure the path of charged particles. This presentation is a summary of one of FASER's latest papers "The tracking detector of the FASER experiment" which describes the functionality, construction and testing of the tracker detector. FASER is currently installed in the LHC, where it is ready for data collection.

In-person participation

Yes

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