

9th Beam Telescopes and Test Beams Workshop



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The silicon strip telescope at the Fermilab Test Beam Facility

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In this talk the silicon strip-based telescope installed in the Fermilab Test Beam Facility will be presented. The telescope is composed by twelve planes, six upstream and six downstream the detector under test (DUT) station. Each plane is made of 640 strips with $60 \mu\text{m}$ pitch, capacitively readout by the FSSR2 chip. The alignment algorithm, based on a Kalman filter approach will be also described briefly. The resolution on both the transverse coordinate of the DUTs is around $5 \mu\text{m}$. Some examples of test beam measurements on silicon pixel sensors for the CMS experiment phase-2 upgrade will be showed.

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