

## Beam telescope for testing p- and n-type detectors

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We constructed in 2007 a beam telescope based on CMS Tracker data acquisition prototype cards and APV25 readout chips. The telescope has 8 silicon strip reference detectors and slots for a couple of test modules. The impact point precision of the reference tracks at the location of the test modules is 4  $\mu\text{m}$ , the S/N of the telescope is 25 and it has an active area of 4 cm x 4 cm. The telescope and the test detectors are housed inside a cold chamber, which allows testing of highly irradiated sensors. The setup provides means of probing the cluster resolution, signal-to-noise and charge collection efficiency properties of silicon microstrip detectors.

**Primary author:** Dr LUUKKA, Panja-Riina (Helsinki Institute of Physics HIP)

**Presenter:** Dr LUUKKA, Panja-Riina (Helsinki Institute of Physics HIP)

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