

The ATLAS SCT

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The central tracking device of the ATLAS experiment at the LHC is the Semiconductor Tracker (SCT). Entirely built from silicon strip detectors, the SCT contains more than 4000 individual detector modules consisting of almost 16000 silicon wafers and 6 million readout channels. After completion of the SCT assembly this spring, the SCT is in a testing stage at the LHC point 1 at CERN. Cosmic events have already been successfully recorded with the SCT.

This presentation will start with a brief overview of the SCT, followed by a review of the single-sided p-in-n strip detector modules used. Their performance before irradiation in various tests will be shown, including some tests on the barrels and disk. Tests results from irradiated modules will also be presented. A short report of the status of commissioning of the SCT system at the time of the presentation will also be given.