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The CMS Silicon Strip Tracker - Overview and Status

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With more than 15000 silicon strip modules and an active silicon area of 200 squaremetres, the CMS silicon strip tracker will be the largest silicon tracker ever built. While module mass production has started in 2004, the detector construction has recently entered its crucial phase with modules being assembled onto larger substructures, which in turn are being integrated into the tracker barrel and end cap structures.

In this presentation the detector design will be introduced. The challenges and experiences of the silicon module mass production, with focus on the key components such as sensors and hybrids, will be presented. The status of the integration of modules onto the detector substructures, as well as the construction and integration of the large barrel and end cap structures, will be described. Finally an overview will be given on the excellent performance of subsystems of the tracker as observed in system tests and test beam experiments.

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