



Contribution ID: 442

Type: **Parallel**

CMS Silicon Strip Tracker Performance in Run 3

Monday 7 July 2025 14:00 (18 minutes)

The CMS tracking system is the world's largest silicon tracker, comprising 1856 pixel and 15148 strip modules. The silicon strip tracker features inner and outer barrel layers, inner discs, and endcaps, which close off the tracker on either end. In this poster, we present the performance of the silicon strip tracker during data taking in LHC Run 3, based on proton-proton collisions at the center-of-mass energy of 13.6 TeV. Key performance metrics as signal-to-noise ratio, hit efficiency and resolution, evolution of bad module components will be shown. The results demonstrate that the tracker maintained excellent performance throughout Run 3, ensuring high-quality tracking crucial for CMS physics analyses.

Secondary track

Authors: COLLABORATION, CMS; LIDRYCH, Jindrich (Université Catholique de Louvain)

Presenter: LIDRYCH, Jindrich (Université Catholique de Louvain)

Session Classification: T11

Track Classification: T11 - Detectors