



Contribution ID: 10

Type: **not specified**

Tracker alignment of the CMS detector with Run 3 data

Tuesday 2 July 2024 10:15 (15 minutes)

The tracking system of the CMS experiment is the world's largest silicon tracker with its 1856 and 15148 silicon pixel and strip modules, respectively. To accurately reconstruct trajectories of charged particles the position, rotation and curvature of each module must be corrected such that the alignment resolution is smaller than, or comparable to, the hit resolution. This procedure is known as tracker alignment and will be described in the context of this talk with a focus on performance during the start of Run 3 data-taking.

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Session Classification: Scientific Computing II