

Tracking in CMS at the HL-LHC

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The CMS experiment is in the process of designing a completely new track detector for the high-luminosity phase of LHC. The results of the future offline tracking performance of CMS will be shown in this poster, such as the excellent efficiency and the very good track separation in the core of a jet. Moreover, some recent developments using the Outer Tracker are included in the poster. The modules in the Outer Tracker of CMS in Phase 2 will provide a new type of hits, so-called vector hits, containing both position and direction information. In this way real tracks can be distinguished from purely random combination of hits. A new seeding is introduced in the Outer Tracker to reconstruct tracks coming from displaced vertices. Preliminary performance results will be presented.

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