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CMS tracker performance in Run3

The CMS silicon tracker consists of two tracking devices: the inner pixel and the outer strip detectors. The tracker occupies the region around the center of CMS, where the LHC beams collide, and therefore, operates in a high-occupancy and high-radiation environment produced by the particle collisions within the LHC tunnel.

This poster summarizes the tracker performance during the ongoing Run 3 data-taking period. The operational challenges influencing the active fraction and read-out efficiency, the behaviour of local observables such as the hit reconstruction efficiency, as well as the radiation effects given the accumulated integrated luminosity are discussed.

Collaboration / Activity

CMS

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