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Pixel Reconstruction in the CMS High-Level Trigger

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The Pixel Detector is the innermost one in the tracking system of the Compact Muon Solenoid (CMS) experiment. It provides the most precise measurements not only supporting the full track reconstruction but also allowing the standalone reconstruction useful especially for the online event selection at High-Level Trigger (HLT). The performance of the Pixel Detector is given. The HLT algorithms using Pixel Detector are presented, including pixel track reconstruction, primary vertex finding, tau identification, isolation and track seeding.

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