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Status of CT-PPS

The PPS (Precision Proton Spectrometer) system consists of tracking and timing detectors installed along the LHC beam line between 210 and 220 m from the interaction point on both sides of the CMS experiment. The aim of the apparatus is to measure with high precision the position, direction and time-of-flight of protons which emerge intact from the pp collision. Fully integrated in the CMS data acquisition system, PPS has taken data at high luminosity during the years of the LHC-Run2 (2016-2018), with slightly different detector configurations. The current apparatus consists of 4 tracking stations (two per side) with 6 planes of 3D pixel sensors each, plus 2 timing stations (one per side), instrumented with 2 single and 2 double diamond planes each. In this presentation commissioning, operation and performance of PPS are discussed with focus on the 2018 data taking period.

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