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PPS offline software in CMS

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PPS (Precision Proton Spectrometer) is a detector localized around 200 m from the colliding point at CMS, with the purpose of detecting the scattered protons.

It is composed of different sensitive detectors, tracking detectors, such as silicon strips and pixels, and detectors for time of flight measurement like diamond and ultra fast silicon detectors.

The CMS Rio group is working in the PPS offline software since the Technical Design Report, when a first version of the Fast Simulation was implemented.

The main contributions in the software are in the elaboration of the Fast Simulation, the transport of the simulated protons from the interaction point to the entrance of the PPS detectors, the integration of the Full Simulation into CMSSW, code implementation for detector Database access and participation in the Pixel simulation code.

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