

Study of central exclusive production with the CMS Precision Proton Spectrometer (PPS)

Tuesday, November 9, 2021 4:30 PM (30 minutes)

The Precision Proton Spectrometer (PPS) is a subdetector of the CMS experiment that facilitates the study of Central Exclusive Production (CEP) in proton-proton collisions at the LHC, in standard data taking conditions, by measuring protons scattered at very small angles. It started operating in 2016 and collected more than 110 fb⁻¹ throughout the LHC Run 2. In this talk the physics program of PPS will be presented with focus on the measurements performed with Run 2 data. Ongoing studies and prospects for the upcoming Run 3 will also be discussed.

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