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Measurement of high-mass dilepton and diphoton production with the CMS-TOTEM Precision Proton Spectrometer

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The measurements of dilepton and diphoton production in photon-photon fusion with the CMS-TOTEM Precision Proton Spectrometer (CT-PPS) are presented. For the first time, exclusive dilepton production at high masses have been observed in the CMS detector while one or two outgoing protons are measured in CT-PPS using around 10^7fb^{-1} of data accumulated in 2016 during high-luminosity LHC operation. These first results show a good understanding, calibration and alignment of the new CT-PPS detectors installed in 2016. Preliminary results and expectations concerning the search for high-mass exclusive diphoton production are discussed.

Experimental Collaboration

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