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Physics results with the CMS Precision Proton Spectrometer and projections for the HL-LHC with PPS2

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In this talk, we present the recent searches for new physics in the electroweak sector of the Standard model containing intact protons measured by the CMS Precision Proton Spectrometer (PPS). With the higher event pileup expected in the high-luminosity upgrade of the LHC, a tighter selection of intact protons under increasingly challenging conditions is required. In this view, the PPS2 project will be presented and projections for future searches at the HL-LHC with intact protons will be discussed.”

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