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New physics results with the CMS Precision Proton Spectrometer

The Precision Proton Spectrometer (PPS) is a new subdetector of CMS introduced for the LHC Run 2, which provides a powerful tool for advancement of BSM searches. The talk will present the new results on exclusive diphoton, $Z+X$, and diboson production explored with PPS, illustrating the unique sensitivity which can be achieved using proton tagging. The upcoming Run 3 will bring new opportunities for measurements with PPS, which will also be discussed.

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