Contribution ID: **405** Type: **Contributed Talk**

New physics results with the CMS Precision Proton Spectrometer

Thursday, 15 April 2021 11:12 (18 minutes)

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 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.

Co-author: CMS COLLABORATION

Presenter: SHCHELINA, Ksenia (Univ. di Torino e Sez. dell'INFN)

Session Classification: Small-x, Diffraction and Vector Mesons

Track Classification: Small-x, Diffraction and Vector Mesons