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New WW Cross Section Measurement at $\sqrt{s} = 13.6$ TeV with the CMS detector.

A measurement of the WW boson pair production cross section in proton-proton collisions at $\sqrt{s} = 13.6$ TeV is presented. The data used in this study are collected with the CMS detector at the CERN LHC in 2022, and correspond to an integrated luminosity of 35fb⁻¹. The WW candidate events are selected by requiring one electron and one muon of opposite charge. A sequence of requirements on kinematic quantities is applied allowing a measurement of the total production cross section. Inclusive fiducial and differential cross sections as a function of the jet multiplicity are also reported.

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