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Di-boson and Tri-boson measurements: ZGamma, WZGamma, and Same-Sign WWGamma

Saturday, 1 November 2025 17:00 (20 minutes)

The study of multiboson processes is an important topic within CMS, playing a significant role in testing the Standard Model and searching for new physics. A measurement of the Z γ production cross section in proton–proton collisions at a center-of-mass energy of 13.6 TeV using leptonic final states, a measurement of the WZ γ triboson production cross section, and the first search for vector boson scattering tri-boson production of WW γ with fully leptonic decays in proton–proton collisions based on proton–proton collision data at \sqrt{s} = 13 TeV recorded with the CMS detector at the LHC corresponding to an integrated luminosity of 138 fb^1 will be presented in this talk.

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