

Multiboson production at CMS

Thursday 5 July 2018 18:00 (15 minutes)

Precision measurements of multi-boson production is a validation of the Standard Model. These multi-boson processes are a background to Higgs measurements and searches for Beyond the Standard Model physics. In this talk, we present the recent measurements of multiboson final states performed in CMS, involving W, Z and photon combinations. Inclusive and differential cross sections are compared to different theoretical predictions. Phase space regions that provide sensitivity to anomalous triple or quartic gauge couplings are also investigated. These coupling strengths are directly related to the broken electroweak symmetry and deviations from the SM are a clear signal of new physics.

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