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Multiboson measurements at CMS

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Measurements of the multiboson production cross sections at the LHC constitute stringent tests of the electroweak sector of the standard model and provide a model-independent means to search for new physics at the TeV scale. These measurements reached a high level of precision with LHC run 1 and run 2 data taking periods. In this presentation, the latest results of diboson (WW, WZ, ZZ, W/Z γ), triboson (WWW, WWZ, WZZ, ZZZ), and rare production mechanisms (electroweak and photon-induced) from the CMS experiment will be shown. Results include total and fiducial cross sections, as well as normalized differential cross sections in the fiducial region. These are compared to the most accurate theoretical predictions to the date.

Category

Particle / Astroparticle / Cosmology (Experiment)

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