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Measurements of inclusive and differential cross sections in bosonic final states at the ATLAS experiment

Monday 21 August 2023 18:30 (20 minutes)

The Higgs boson decay to two W bosons provides the largest branching fraction among bosonic decays, and can be used to perform some of the most precise measurements of the Higgs boson production cross sections. This talk presents Higgs boson fiducial and differential cross section measurements by the ATLAS experiment in the WW decay channel, targeting both the gluon-gluon fusion and vector-boson fusion production modes, as well as complementary measurements in the ZZ and gamma-gamma final states. The results are based on pp collision data collected at 13 TeV and 13.6 TeV during Run 2 and Run 3 of the LHC.

Collaboration / Activity

ATLAS

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