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Type: **Experiment**

Measurement of the WW Production Cross Section in Proton-Proton Collisions with the ATLAS Detector

A measurement of the $W+W-$ production cross section in proton-proton collisions is presented. The $W+W-$ leptonic decay channels are analysed using data collected by the ATLAS detector at the CERN Large Hadron Collider.

The results are first obtained in kinematic regions defined by the decay kinematics and then extrapolated to the full phase space. Comparisons to NLO QCD predictions are presented. A detailed understanding of this process is also important in searches for new phenomena to which $W+W-$ production is a background.

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