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Measurement of the electroweak production cross section of same-sign WW bosons associated with dijets with the ATLAS detector

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The measurement of production of same-sign WW bosons associated with two forward jets is reported based on 20 fb⁻¹ of data at $\sqrt{s} = 8$ TeV recorded by the ATLAS experiment.

The measurements are performed in fiducial volumes, sensitive to QCD and Electroweak production mechanisms. The electroweak component of same-sign WW production is extracted in a fiducial region with large rapidity difference between two jets with high dijet invariant mass, chosen to enhance the electroweak contribution over the dominant background in which the jets are produced via the strong interaction. The measured electroweak cross section is in good agreement with the Standard Model expectations.

Summary

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