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Measurement of the electroweak production cross section of vector bosons associated with dijets with the ATLAS detector

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Measurement of production of vector 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 measurement is performed in various fiducial volumes, sensitive to QCD and Electroweak production mechanisms. The electroweak component for single Z boson production is extracted by a fit to the dijet invariant mass distribution in a fiducial region 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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