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Recent QCD Results from ATLAS

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The ATLAS collaboration has performed studies of a wide range of QCD phenomena, from soft particle to hard photon and jet production. Among recent results are the measurement of Z event shape observables sensitive to the modelling of the underlying event, and the measurement of diffractive dijet production with a large rapidity gap, which tests the interplay of soft and hard phenomena. The total pp cross section, a fundamental property of the strong interaction, is explored via measurements of the elastic pp cross section and the total inelastic cross section at cms energies of 7,8 and 13TeV. Precision measurements of the isolated high pT inclusive photon cross section at cms energies of 8TeV and 13TeV test the theoretical predictions and constrain parton density functions. An overview of these results is given.

Summary

A summary of recent QCD measurements by the ATLAS Collaboration is presented.

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