



Contribution ID: 12

Type: **not specified**

Measurements of double parton scattering at ATLAS

Measurements of double parton scattering in proton-proton collisions provide insight into the structure and long-range low-momentum scale interactions of the proton. In this talk we present a measurement of the double-parton scattering contribution to four-lepton events at $\sqrt{s}=8$ TeV. An artificial neural net is used to optimise the analysis and an upper limit on the double-parton scattering fraction is set at 0.042, which corresponds to an effective cross section of 1mb. The data are compared to a wide variety of predictions from Monte Carlo event generators.

ANA-STDM-2017-15

Author: ATLAS, Collaboration (ATLAS Collaboration)

Presenter: ATLAS, Collaboration (ATLAS Collaboration)

Session Classification: Double Parton Scattering

Track Classification: Double Parton Scattering