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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.

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