

Single Top quark production and properties measurements using the ATLAS detector

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Measurements of single top-quark production in proton-proton collisions and of angular correlations in single top-quark events are presented based on the 8 TeV and 13 TeV ATLAS datasets. For the production of single top quarks in the t-channel and the tW-channel, measurements of inclusive and differential cross-sections are included. Evidence for s-channel production using 8 TeV data and the measurement of single top quark production in association with a Z boson at 13 TeV are also presented. All measurements are compared to state-of-the-art theoretical calculations. Differential cross-sections are measured as a function of angular variables that are sensitive to anomalous contributions to the Wtb vertex and the top quark polarization.

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