

Single Top quark production and properties measurements using the ATLAS detector

Thursday, July 5, 2018 10:00 AM (15 minutes)

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.

Presenter: VREESWIJK, Marcel (Nikhef National institute for subatomic physics (NL))

Session Classification: Top Quark and Electroweak Physics

Track Classification: Top Quark and Electroweak Physics