

Top quark production cross-section measurements

Monday, 27 August 2018 14:30 (25 minutes)

Measurements of the inclusive and differential cross-sections for top-quark pair and single top production cross sections in proton-proton collisions with the ATLAS detector at the Large Hadron Collider are presented at center-of-mass energies of 8 TeV and 13 TeV. The inclusive measurements reach high precision and are compared to the best available theoretical calculations. These measurements, including results using boosted tops, probe our understanding of top-pair production in the TeV regime. Measurements of the properties of the Wtb vertex in single top-quark production allow to set limits on anomalous couplings. All measurements are compared to state-of-the-art theoretical calculations.

Presenter: ZOCH, Knut (Georg August Universitaet Goettingen (DE))

Session Classification: Heavy Quarks

Track Classification: Heavy Quarks