

# XXXI International workshop on high energy physics "Critical points in the modern particle physics"



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Type: **Talk**

## ATLAS Top Quark Results

*Thursday 6 July 2017 15:00 (40 minutes)*

The top quark is the heaviest known fundamental particle. As it is the only quark that decays before it hadronizes, this gives us the unique opportunity to probe the properties of bare quarks at the Large Hadron Collider. This talk will present highlights of a few recent precision measurements by the ATLAS Collaboration of the top quark using 13 TeV and 8 TeV collision data: top-quark pair and single top production cross sections including differential distributions will be presented alongside top quark properties measurements. These measurements, including results using boosted top quarks, probe our understanding of top quark production in the TeV regime. Measurements of the top quark mass and searches for rare top quark decays are also presented.

**Presenter:** BLACK, Kevin (Boston University, USA)

**Session Classification:** Evening session