OLOMOUC, CZECH REPUBLIC
9th International Workshop on Top Quark Physics
19 - 23 September 2016

Contribution ID: **31** Type: **not specified**

Differential cross-section measurements of highly boosted top-quarks in the lepton+jets channel at sqrt(s)=13TeV using the ATLAS detector

Measurements of differential crosssections of hadronically decaying, high pT topquarks are presented as a function of transverse momentum and absolute rapidity. The dataset corresponds to an integrated luminosity of 3.2fbˆ1, recorded at sqrt(s) = 13TeV in 2015 with the ATLAS detector at the CERN Large Hadron Collider. Events are selected in the lepton+jets channel utilising the “boosted regime”, whereby the hadronically decaying top quark is identified as a single R=1.0 antikT jet and tagged with substructure techniques. The measured spectra are corrected for detector effects and are compared to several Monte Carlo simulations.

Summary

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Session Classification: Poster Session & Finger-Food Dinner

Track Classification: Poster Session