



Contribution ID: 879

Type: **Oral Presentation**

Top properties measurements with the ATLAS detector (15' + 5')

Thursday, 4 August 2016 12:10 (20 minutes)

The top quark is unique among the known quarks in that it decays before it has an opportunity to form hadronic bound states. This makes measurements of its properties particularly interesting as one can access directly the properties of a bare quark. The latest measurements of these properties are presented. Measurements of the charge asymmetry in top-quark pair, which probe models of physics beyond the Standard Model, are presented; these include measurements at high invariant masses of the $t\bar{t}$ system using boosted top quarks. Measurements of the top polarisation produced either through pair process or through single top process are discussed. The helicity of the W boson from the top decays and the production angles of the top quark are further discussed. Limits on the rate of flavour changing neutral currents in the production or decay of the top quark are discussed.

Presenter: LIMOSANI, Antonio (University of Sydney (AU))**Session Classification:** Top Quark and Electroweak Physics**Track Classification:** Top Quark and Electroweak Physics