## **ICHEP2012**



Contribution ID: 191 Type: not specified

## Charge asymmetry in top pairs at ATLAS

Friday 6 July 2012 09:00 (15 minutes)

In 7 TeV proton - proton collisions at the LHC, pairs of top and anti-top quarks are expected to be mostly produced through gluon fusion, in contrast to production at the Tevatron, where quark annihilation dominates. The ATLAS experiment has now recorded a large number of top quark pairs, allowing this domain to be explored in detail. We present measurements of top-quark charge asymmetry which constitute important tests of QCD and are sensitive to new physics. Measurements are presented in both, the single lepton and dilepton channel. Also, the lepton based charge asymmetry in top-quark pair events has been measured and will be presented.

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Session Classification: Room 216 - Top Quark Physics / Particle Astrophysics & Cosmology - TR4 &

TR11