Prospects for measuring Top Pair Production using a likelihood method at ATLAS in 10 TeV p-p Collisions

Tuesday 28 July 2009 14:55 (15 minutes)

Due to the large top quark production cross section at the LHC energies, the ATLAS experiment is expected to have enough statistics to measure the top quark cross section even at initial luminosities. Recent studies performed in ATLAS on the development of top quark pair cross section measurements using the likelihood method will be discussed. An emphasis will be on measurements with data that will be collected in the first year of the LHC run. The potential of using the top quark events for b-tagging calibration will also be briefly discussed.

Authors: JANA, Dilip (University of Oklahoma); COCHRAN JR, James Herbert (Iowa State University-Un-known-Unknown)

Co-authors: RIZATDINOVA, Flera (Oklahoma State University); Prof. SKUBIC, Patrick (University of Oklahoma)

Presenter: JANA, Dilip (University of Oklahoma)

Session Classification: Top Quark Physics II

Track Classification: Top Quark Physics