Contribution ID: 47 Type: **not specified**

The Inclusive Jet Cross-Section at ATLAS (ApplGrid)

Monday, 31 March 2008 16:35 (12 minutes)

The ATLAS experiment will provide an opportunity to explore interactions at higher energies than previous detectors; allowing a test of standard model predictions, as well as opening the possibility of 'new physics' discoveries. The inclusive jet cross-section at high pT is one measurement which may provide evidence of physics 'beyond the standard model', however a thorough understanding of uncertainties on its prediction and measurement is necessary. I will provide an overview of errors on the inclusive jet cross-section and discuss methods of using hadron-collider data in global PDF fits by use of integration grids (the ApplGrid project). I will also give a brief outline of the potential sensitivity to quark compositeness that ATLAS may be able to achieve.

Talk, Poster, or Talk & Poster

Talk and poster

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Session Classification: Parallel 1A: Collider Physics - QCD and Electroweak