Contribution ID: **531** Type: **Parallel Session Talk**

Charged particle multiplicities in inelastic pp events with the ATLAS detector

Thursday 22 July 2010 17:20 (16 minutes)

The measurement of the properties of proton-proton interactions at center-of-mass energies ranging from 900 GeV (injection energy) to 7 TeV in the ATLAS detector are presented. The charged-particle density, its dependence on transverse momentum and pseudo-rapidity, and the relationship between transverse momentum and charged-particle multiplicity are measured for events with at least one charged particle in a defined kinematic range. The measurements are compared to Monte Carlo models for inelastic events and to results from other experiments.

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Session Classification: 08 - Heavy Ion Collisions and Soft Physics at Hadron Colliders

Track Classification: 08 - Heavy Ion Collisions and Soft Physics at Hadron Colliders