

Charged particle multiplicities in inelastic pp events with the ATLAS detector at the LHC

Abstract content

The measurement of the properties of proton-proton interactions at center-of-mass energies of 900 GeV, of 2.36 TeV and of 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.

Summary

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