

Charged-particle multiplicities in proton–proton collisions at $\sqrt{s} = 0.9$ TeV, 2.76 TeV and 7 TeV, with ALICE at LHC

High-statistics measurements were performed at LHC, with the ALICE central barrel detectors, in the central pseudorapidity region ($-1 \leq \eta < 1$) of multiplicity distributions, and pseudorapidity densities of primary charged particles produced in proton–proton collisions, at $\sqrt{s} = 0.9$ TeV, 2.76 TeV and 7 TeV. Measurements were obtained for two event classes: inelastic events (INEL) and non-single diffractive events (NSD). The data are compared to measurements from other experiments and to simulations with Monte Carlo event generators PYTHIA and PHOJET.

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Track Classification: Global and collective dynamics