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Transverse momentum spectra of primary charged particles in pp collisions measured by ALICE at the LHC

Particle production at collider energies is a result of the interplay of perturbative (hard) and non-perturbative (soft) QCD processes. Hence, the measurements of transverse momentum spectra in pp collisions provide baseline tests of perturbative QCD and constraints for a better tuning of models and event generators. In addition, they constitute a valuable reference to study nuclear effects in nucleus-nucleus and proton-nucleus collisions, in particular allowing one to measure the nuclear modification
factors.
The ALICE experiment has collected data pp at 5.02 TeV and the top LHC energy of 13 TeV. The 5 TeV dataset, in particular, is crucial for the comparison with the measurements in Pb-Pb and p-Pb collisions taken at the same energy. We present the measurements of charged particle transverse momentum spectra in pp collisions at the new energies and compare the results to the previous measurements at 7 TeV and 2.76 TeV as well as to the expectations from Monte Carlo event generators.

Preferred Track

Jets and High pT Hadrons

Collaboration

ALICE

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