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Pseudorapidity densities of charged particles with transverse momentum thresholds in pp collisions at $\sqrt{s} = 5.02$ and 13 TeV with ALICE

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The pseudorapidity density of charged particles with different values of minimum transverse momentum (p_T) thresholds of 0.15, 0.5, 1, and 2 GeV/c is measured in pp collisions at $\sqrt{s} = 5.02$ and 13 TeV with the ALICE Run 2 set-up. The study is carried out for inelastic collisions with at least one primary charged particle having a pseudorapidity (η) within ± 0.8 and p_T larger than the corresponding threshold. Implementing p_T thresholds provides the unique possibility to compare to results published from other LHC experiments, such as ATLAS and CMS. The measurements are also compared to PYTHIA 8, EPOS-LHC and EPOS 3 event generators.

Category

Experiment

Collaboration (if applicable)

ALICE

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