ID de Contribution: **114** Type: **Talk**

# Charged-particle production in pp collisions at 13.6 TeV and Pb-Pb collisions at 5.36 TeV with ALICE

*mardi 4 juin 2024 16:50 (20 minutes)*

The pseudorapidity dependence of charged particle production provides information on the partonic structure of the colliding hadrons and is, in particular at LHC energies, sensitive to non-linear QCD evolution in the initial state. For Run3, ALICE has increased its pseudorapidity coverage to track charged particles over a wider range of $-3.6 < \eta < 2$ combining the measurement from the upgraded Inner Tracking System (ITS) and the newly installed Muon Forward Tracker (MFT).

Particle production mechanisms are explored by addressing the charged-particle pseudorapidity densities measured in pp and Pb–Pb collisions, presenting new final results from Run 3. These studies allow us to investigate the evolution of particle production with energy and system size and to compare models based on various particle-production mechanisms and different initial conditions both at mid and forward rapidities.

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**Classification de Session:** Track1-LF

**Classification de thématique:** Light-flavours and Strangeness