

Light-flavour hadron production with ALICE at LHC

Monday, 5 June 2023 14:00 (30 minutes)

Light-flavour hadrons constitute the bulk of particle production in high-energy hadronic collisions at LHC. Measurements of their transverse-momentum spectra, integrated yields, and relative abundances as a function of multiplicity provide crucial information on the hadronization process and on the properties of the system created in different collision systems. These multi-differential measurements in the strangeness sector offer an additional opportunity to investigate the origin of the strangeness enhancement phenomenon in small collision systems.

In this talk, a comprehensive overview of recent ALICE measurements of pion, kaon, proton, and strange hadron production in pp, pA, and AA collisions will be presented. These results will be discussed in the context of state-of-the-art phenomenological models.

Primary author: CALIVÀ, Alberto (University of Salerno)

Presenter: CALIVÀ, Alberto (University of Salerno)

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