



Contribution ID: 579

Type: **Parallel**

Inclusive and semi-inclusive jet cross-section measurements in pp collisions at $\sqrt{s}=13.6$ TeV with ALICE

Tuesday 8 July 2025 09:30 (20 minutes)

In this talk we present new measurements of inclusive and semi-inclusive jet production in pp collisions, using the high-statistics data sample of Run 3 collected by ALICE. The inclusive jet sample is composed of charged-particle jets, whilst the semi-inclusive sample has the additional constraint that the jets are recoiling from a high- p_T charged hadron trigger. For the semi-inclusive sample we also report the prospects for the measurement of the acoplanarity observable, $\Delta\phi$, defined as the azimuthal angle between the trigger and the recoiling jet, as well as the jet-axis difference ΔR . These measurements can probe higher-order corrections to pQCD calculations, as well as constrain Monte-Carlo models describing the evolution of high momentum objects. An outlook to performing these measurements in Pb–Pb collisions in Run 3 is also presented, detailing the response of the upgraded ALICE detector to jet physics in heavy-ion collisions.

Secondary track

Authors: COLLABORATION, ALICE; BAE, Joonsuk (Sungkyunkwan University)

Presenter: BAE, Joonsuk (Sungkyunkwan University)

Session Classification: T05

Track Classification: T05 - QCD and Hadronic Physics