

# Measurements of charged jet spectra in pp and PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ALICE

Jets originate from hard scattered partons at the initial stage of collisions. In heavy ion collisions, jets are sensitive to medium effects on the partons traversing the QGP and probe the properties of the hot and dense strongly interacting matter. Measurements of the jet nuclear modification factor ( $R_{AA}$ ) and its centrality dependence with different choices of the jet resolution parameter  $R$  are sensitive to the partonic energy loss and probe medium-induced modifications of the jet structure. To quantify these effects in Pb-Pb collisions, the measurement of a pp baseline at the same centre-of-mass energy is crucial.

In this contribution, we will present charged jet spectra in Pb-Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV and charged jet cross section in pp collisions at  $\sqrt{s} = 5.02$  TeV measured with the ALICE detector at the LHC. The pp measurements will be compared to pQCD calculations at NLO accuracy. The cone radius dependence and the dependence on the leading constituent bias of the Pb-Pb spectra will be discussed. The nuclear modification factor  $R_{AA}$  and  $R_{CP}$  will be compared to similar measurements at  $\sqrt{s_{NN}} = 2.76$  TeV.

## Preferred Track

Jets and High pT Hadrons

## Collaboration

ALICE

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