

Jet Measurements in Heavy Ion Collisions with the ATLAS Experiment

Friday, 19 July 2024 14:30 (17 minutes)

Measurements of jets in heavy-ion collisions provide detailed information about the dynamics of the hot, dense plasma formed in these collisions at the LHC. This talk gives an overview of the latest jet measurements with the ATLAS detector at the LHC, utilizing the high statistics 5.02 TeV Pb+Pb and 8.16 TeV p+Pb data collected in 2015, 2016 and 2018. Multiple new results will be featured in this talk, Novel measurements of the photon plus two jet production and photon+jet+hadron correlations, which are sensitive to the parton-QGP interaction and medium response effects, are presented in this talk. Additionally, we will present a new measurement of the centrality dependence of dijet production in proton-lead collisions at 8.16 TeV, offering a unique possibility to investigate initial state effects in nuclear collisions.

Alternate track

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Yes

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Session Classification: Heavy Ions

Track Classification: 07. Heavy Ions