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b-jet quenching in Pb+Pb collisions measured by the ATLAS detector

The measurement of modification of jet yields in heavy-ion collisions provides a powerful method to probe the dynamics of the hot, dense medium formed in these collisions at the LHC. Jet quenching in heavy-ion collisions is expected

to depend on the flavor of the fragmenting parton. For light partons, energy loss via gluon bremsstrahlung is expected to dominate, while in the case of heavy-quark-initiated-jets, collisional energy loss may play a more important role. This poster reports the new measurement of b-tagged jets production in pp and Pb+Pb at $\sqrt{s_{NN}} = 5.02$ TeV collision energy using the large statistics Pb+Pb data sample collected with ATLAS in 2018 where the tagging utilizes muon-to-jet association.

Collaboration (if applicable)

ATLAS

Track

Heavy Flavor and Quarkonia

Contribution type

Poster

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