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Measurement of jet fragmentation in pp , $p+\text{Pb}$ and $\text{Pb}+\text{Pb}$ collisions with ATLAS

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The measurement of the fragmentation functions of jets into charged particles in heavy ion collisions can provide insight into the mechanism of the modification of the parton shower in the hot, dense QCD medium created in these collisions. Additionally, a study of the jet fragmentation in $p+\text{Pb}$ collisions, where a large volume of hot QCD matter is not expected to be created, can provide insight into a possible influence on the jet fragmentation by effects due to the participation of the nucleus in the collision. This poster presents the latest measurements of fragmentation functions in pp , $p+\text{Pb}$, and $\text{Pb}+\text{Pb}$ collisions by the ATLAS experiment using data from the LHC Run 2.

Content type

Experiment

Collaboration

ATLAS

Centralised submission by Collaboration

Presenter name already specified

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