

Jet tomography of QGP and medium response

Friday, 19 July 2024 15:55 (17 minutes)

Two-dimensional (2D) jet tomography is a promising tool to study jet medium modification in high-energy heavy-ion collisions. It combines gradient (transverse) and longitudinal jet tomography for selection of events with localized initial jet production positions. It exploits the transverse asymmetry and energy loss that depend, respectively, on the transverse gradient and jet path length inside the quark-gluon plasma (QGP). In this study, we employ the 2D jet tomography to study medium modification of the jet shape of γ -triggered jets and the effect of medium responses within the linear Boltzmann transport (LBT) model for jet propagation in heavy-ion collisions.

Alternate track

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Session Classification: Heavy Ions

Track Classification: 07. Heavy Ions