



Contribution ID: 481

Type: Poster

The effects of magnetic field and chemical potential on holographic jet quenching in heavy ion collisions

Tuesday, 5 September 2023 17:30 (2h 10m)

We employ the AdS/CFT correspondence to study the jet quenching effect in Quark-gluon plasma in heavy-ion collisions. The nuclear modification factor R_{AA} and elliptic flow parameter v_2 are studied in different-centrality collisions at RHIC and LHC. Our numerical results agree with data. Magnetic field and chemical potential of the medium are also considered for the observable evaluations. It is found that magnetic field and chemical potential both enhance the jet energy loss.

Category

Theory

Collaboration (if applicable)

Primary author: Mr ZHU, Liqiang (Central China Normal University)

Co-author: Prof. ZHANG, Hanzhong (Central China Normal University)

Presenter: Mr ZHU, Liqiang (Central China Normal University)

Session Classification: Poster Session

Track Classification: Jets