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Energy-energy correlators of inclusive jets in heavy-ion collisions

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Energy-energy correlators (EECs) have manifested an important probe to unveil the properties of QCD splitting in vacuum, which should be modified in the nuclear medium such as the quark-gluon plasma. By employing the recently developed multi-stage jet evolution framework JETSCAPE, we have investigated the nuclear modification of EECs of inclusive jets in heavy-ion collisions. We find EECs are significantly influenced by the splitting behaviors in the small angle region, and contributed by the medium response in the large angle region. We also provide the theoretical predictions of nuclear EECs for ALICE and CMS measurements.

Category

Theory

Collaboration

JETSCAPE

Primary authors: COLLABORATION, JETSCAPE; Dr HE, Yayun (South China University of Technology)

Presenter: Dr HE, Yayun (South China University of Technology)

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