Contribution ID: **6** Type: **not specified**

Jet quenching in evolving matter

Saturday 28 September 2024 17:30 (20 minutes)

Over the last decades, the theoretical picture of how hadronic jets interact with nuclear matter has been extended to account for the medium's finite longitudinal length and expansion. However, only recently a first-principle approach has been developed that allows to couple the jet evolution to the medium flow and anisotropic structure. In this talk, I will review these developments, and discuss the features of jet quenching in evolving matter. I will consider the modifications of the single particle momentum broadening distribution and single-gluon production rate, and discuss the potential phenomenological implications.

Category

Theory

Collaboration

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Session Classification: Session 5