

Jet-medium interaction and the Gubser flow

Thursday 10 August 2017 15:00 (30 minutes)

We study the effects of expansion and viscous corrections on the hydrodynamical medium response to a high energy jet parton. More specifically, using a semi-analytical Gubser solution to relativistic fluid dynamics, modifications to the formed Mach cone, diffusive wake, and the momentum flow of the medium response along and perpendicular to the jet particle, are analyzed mode-by-mode. This should provide intuition and guidance for analyses of the experimentally measured jet sub-structures in heavy-ion collisions.

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Session Classification: Parallel 3

Track Classification: Parallel Session