



Contribution ID: 45

Type: **not specified**

In-medium fluctuations in the GLV formalism

Friday, 29 January 2021 12:30 (5 minutes)

Droplets of quark-gluon plasma produced in heavy-ion collisions rapidly evolve expanding and cooling. During considerable part of this dynamics the system can be described within relativistic hydrodynamics. Recently, there were some attempts to include effects of the medium motion to the jet energy loss and jet modification calculations in a variety of models. Here we will present the first principle consideration of the medium motion effects on the jet broadening and soft gluon radiation within the GLV approximation. We will show that the developed formalism can be also applied to derive the effects of in-medium fluctuations on a wide range of the jet observables at EIC.

Primary author: SADOFYEV, Andrey (Los Alamos National Laboratory)

Presenter: SADOFYEV, Andrey (Los Alamos National Laboratory)

Session Classification: Heavy flavor at EIC

Track Classification: Heavy flavor