

Interplay between hydrodynamics and jets

Thursday 30 July 2015 10:00 (30 minutes)

I discuss different dissipative processes in the fluid dynamics of heavy ion collisions and in particular the influence of jets which transfer energy and momentum to the fluid. Quantitatively, the energy and momentum lost by jets is modeled by the jet quenching Monte Carlo Jewel with a realistic fluid dynamic model for the background. On the level of event averaged source terms the effects are small and are caused mainly by the momentum transfer. For the nuclear modification factor of jets and the di-jet asymmetry, Jewel leads to a reasonable agreement with experimental data.

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Session Classification: Jet quenching and energy loss