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Hydrodynamization and isotropization in HIC

Monday 29 August 2016 16:30 (30 minutes)

We numerically solve 2+1D effective kinetic theory of weak coupling QCD under longitudinal
expansion relevant for early stages of heavy-ion collisions. We find agreement with viscous hydrodynamics and classical Yang-Mills simulations in the regimes where they are applicable. With a reasonable initial
condition for the anisotropic system in the heavy ion collisions, we found that the system is approximately
described by viscous hydrodynamics well before $\tau \sim 1.0$ fm/c.

Summary

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