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Bulk evolution of linearized fluctuations

Fluid-dynamic approach should incorporate thermal fluctuations described by the fluctuation-dissipation theorem, as they may have non-negligible influence on relevant final-state observables. In this work, we introduce dynamic fluctuations into the vHLL hydrodynamic code as a stochastic noise in linearized approximation. Such approach could help understand the evolution of fluctuations for further application in non-linear framework. Benchmark results for the structure factors, which are related to the fluctuation observables, are presented.

Category

Theory

Collaboration (if applicable)

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