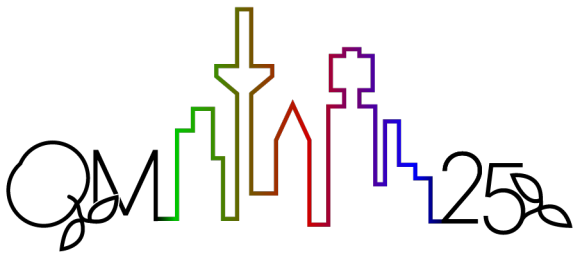

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A 2+1 Dimensional Collective Model in Kinetic Theory Using the Relaxation Time Approximation.

The puzzling phenomenon of collectivity in small systems has not been thoroughly explored, and many aspects still require investigation. Given the limitations of applying hydrodynamics to small systems, it is essential to develop alternative collective models that allow for better control over the degree of collectivity. In this poster, we present our latest advancements in solving a 2+1 dimensional Boltzmann equation using a relaxation time approximation. The evolution begins from a fluctuating initial state and ends with a freeze-out hypersurface. We present our results for systems with different opacities, ranging from free-streaming to the case close to ideal hydrodynamics.

Category

Theory

Collaboration (if applicable)

Authors: TABATABAEE, Ali; Dr TAGHINAVAZ, Farid (IPM); TAGHAVI, Seyed Farid (Technische Universitaet Muenchen (DE))

Presenter: TAGHAVI, Seyed Farid (Technische Universitaet Muenchen (DE))

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