

Evolution of spatial anisotropies in quark gluon plasma

Thursday, 18 February 2016 14:00 (20 minutes)

Evolution of fluctuations in various thermodynamical quantities have been studied within the framework of Boltzmann transport equation. Spatial anisotropies of the initial state with different geometry have been evolved through Boltzmann equation and shown that these anisotropies decay very fast. This supports the presumption that the measured anisotropies in the data does not originates from the late stage rather it imitate the initial state effects. Relation between thermal fluctuation and transport coefficients have been established. Evolution of fluctuations in energy density and temperature of quark gluon plasma expected to be created in nuclear collisions at relativistic energies has been studied.

Primary author: ALAM, Jan-e (Variable energy Cyclotron Centre)

Co-author: SARWAR, Golam (VECC)

Presenter: SARWAR, Golam (VECC)

Session Classification: Session 18