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Hydrodynamic Approach to Relativistic Heavy Ion Collisions

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We review recent development of an integrated dynamical model to describe heavy ion reaction as a whole at ultrarelativistic energies. The model is
composed of fully (3+1) dimensional ideal hydrodynamic simulations
using the state-of-the-art equation of state from lattice QCD and
subsequent hadronic cascadings in the late stage. We also construct a new model to cover from low energy to high energy partons based of a relativistic hydrodynamic model with a source term and show some results of medium responses to energetic jets traversing the QGP.

Keywords

QGP, hydrodynamics, medium response, jets

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