## 11th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions



Beitrag ID: 219

Typ: Talk

## Early time dynamics of QCD with conserved charges in heavy-ion collisions

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In the early stages of heavy-ion collisions, at the highest energies, the system begins in a highly anisotropic state which is far from equilibrium. At later times, the dynamic evolution of the system is well described in the framework of relativistic hydrodynamics which requires local thermodynamic equilibrium. The KoMPoST framework has had some success in bridging the gap between these descriptions via a coarse-grained, non-equilibrium evolution of the system assuming a medium dominated completely by gluons. In this work, we present new results in this framework which include quark degrees of freedom in the response of the system to perturbations from the non-equilibrium background.

## **Experiment/Theory**

Theory/Phenomenology

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Sitzung Einordnung: Parallel: Early-Time Dynamics & nPDFs

Track Klassifizierung: Early time dynamics and nuclear PDFs