

Comparison of hydrodynamics with kinetic transport theory for pA and AA collisions

The good agreement of calculations on the basis of dissipative hydrodynamics with the experimental data from p+A collisions seems to point to strong collective behavior and a fast thermalization. Nevertheless, already for A+A collisions, large dissipative corrections are necessary. We examine by a direct comparison of hydrodynamic calculations with calculations performed with the partonic transport model BAMPS, whether dissipative hydrodynamics is indeed applicable to these small systems.

Collaboration

Primary author(s) : GALLMEISTER, Kai (Goethe Universität Frankfurt)

Co-author(s) : GREINER, Carsten (University of Frankfurt); RISCHKE, Dirk (University Frankfurt); NIEMI, Harri (Johann Wolfgang Goethe-Universität)

Presenter(s) : GALLMEISTER, Kai (Goethe Universität Frankfurt)

Session Classification : Poster