

Dynamics of the hadronic phase in ultrarelativistic heavy ion collisions

I will discuss the dynamics of the hadronic phase in ultrarelativistic nuclear collisions in the context of the UrQMD transport model.

I will present results on the hadronic phase effects on final state observables like hadron multiplicity and collective flow. These results show that especially hadron resonance properties and multiplicities, which are very sensitive probes of the hadronic rescattering phase, can be well described by the UrQMD transport model.

Furthermore I will show how the hadronic rescattering decorrelates the initial distributions of conserved charges in a fixed acceptance window of a nuclear collision. Consequently, the calculated change of the correlation, during the hadronic expansion stage, does not support the recent paradigm, namely that the measured final moments of the experimentally observed distributions do give directly the values of those distributions at earlier times, when the system had been closer to the QCD crossover.

Preferred Track

Collective Dynamics

Collaboration

Not applicable

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