

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



Beitrag ID: 280

Typ: Talk

Rapidity-dependent fluctuations in the Trento initial state model

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We construct an improved 3+1D version of the Trento initial state model, which includes rapidity-dependent fluctuations. The correlation between the fluctuations at different rapidities is controlled by a new parameter. We then use this improved model to study rapidity-dependent observables for ultracentral collisions. It is known that ultracentral flow at midrapidity is sensitive to fluctuations in the initial state, and it is likewise expected that rapidity-dependent flow will be sensitive to the correlation of these fluctuations between different rapidities in the initial state.

Experiment/Theory

Theory/Phenomenology

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Sitzung Einordnung: Parallel: Early-Time Dynamics & nPDFs

Track Klassifizierung: Early time dynamics and nuclear PDFs