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Towards hydrodynamic initial conditions in the fragmentation region

The fragmentation region of a heavy ion collision is a hot and dense place, which makes it ideal for studying the phase diagram of Quantum Chromodynamics (QCD). I will discuss recent work that aims to build an initial state model for the fragmentation region that incorporates the phenomenon of gluon saturation. We find some interesting results on baryon stopping and compression in terms of the saturation momentum scale. The ultimate goal is to calculate baryon and energy densities in the fragmentation region to be fed into relativistic hydrodynamics equations.

Apply to be considered for a student ; award (Yes / No)?

No

Level for award;(Hons, MSc, PhD, N/A)?

N/A

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