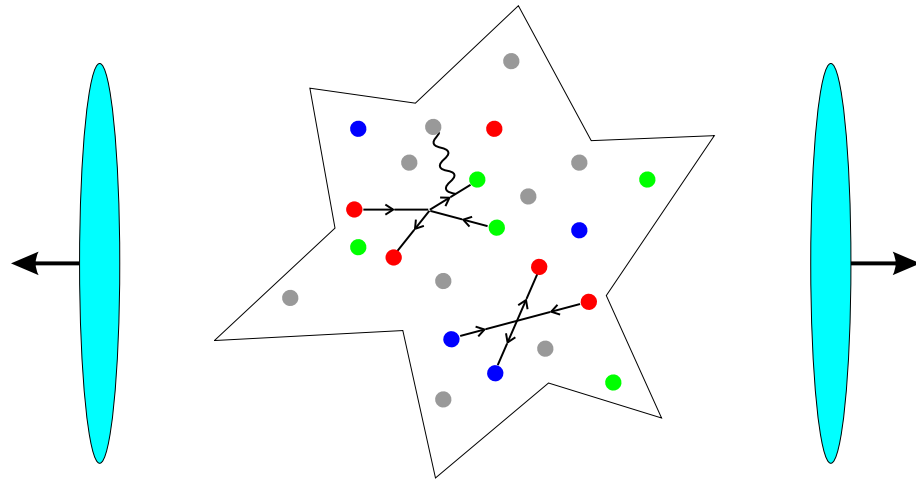


A Parton Cascade

for Ultrarelativistic Heavy-Ion Collisions

Zhe Xu and Carsten Greiner



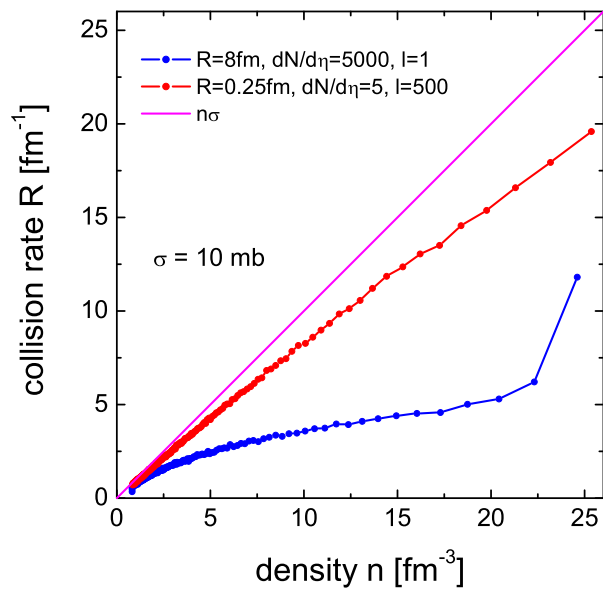
- Goal of the project:

Investigation of the parton evolution in uRHICs

- study thermal and chemical equilibrium
- estimate experimental consequences

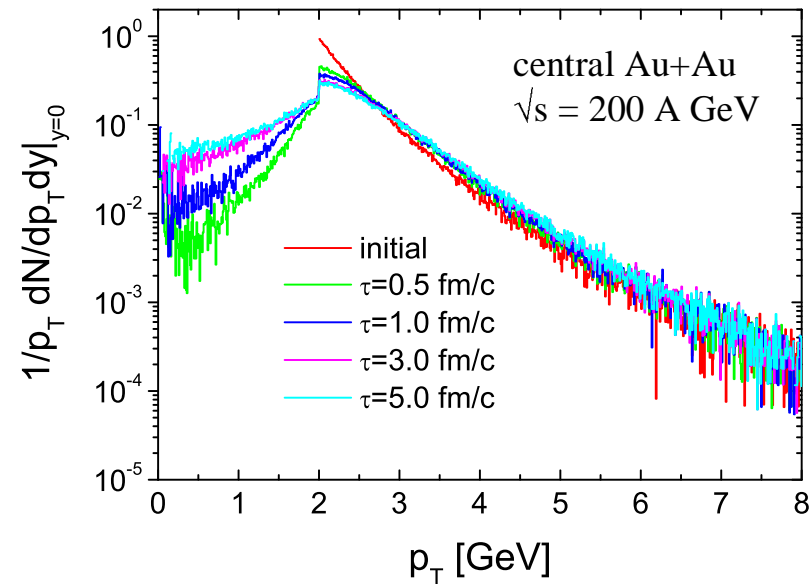
- Initial condition: Minijets from PQCD
- Present: Only elastic parton scatterings are included.

numerical difficulty



one-dimensional expansion with Bjorken initial condition

time evolution



work in progress

- Implementation of transition rates instead of „geometrical“ cross sections
- Implementation of inelastic parton scatterings