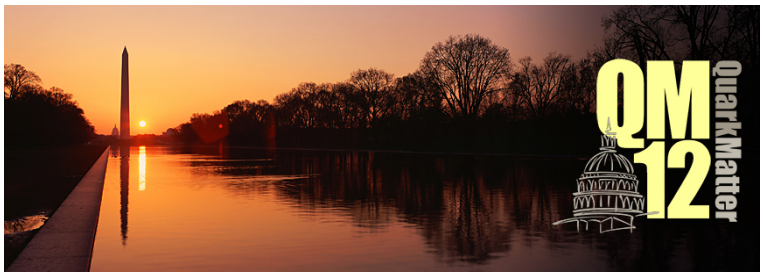

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The Effect of 3<->2 Rates on Thermalization in Covariant Transport

Thursday, August 16, 2012 4:00 PM (2 hours)

We employ a grid based stochastic technique to solve the on-shell
Boltzmann transport equation including inelastic 3<->2 processes. The case of an interacting massless partonic gas in a longitudinally expanding Bjorken geometry is considered. The numerical accuracy of the algorithm is first rigorously established from comparisons to both static box calculations and earlier results from the MPC cascade with 2<->2 interactions. We then study the effect of inelastic 3<->2 collision rates and particle production on thermalization, chemical equilibration, and entropy production in the partonic system.

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