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Thermalization of over-occupied gluons

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In the weak coupling limit, the color-glass condensate framework predicts that the initial conditions of heavy-ion collisions are characterized by intense gauge fields, or equivalently high occupation numbers of gluons. In my talk, I will describe how such initial conditions relax towards thermal equilibrium. In particular, I will discuss how such a system has dual descriptions in terms of either classical gauge field theory or effective kinetic theory of gluons. The domain of validity of the two descriptions is overlapping and I will numerically demonstrate the equivalence in the case of a non-expanding system.

On behalf of collaboration:

[Other]

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