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Numerical studies of JIMWLK

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In the CGC framework the initial stages of a heavy ion collision at high energy are described as “glasma” field configurations. The initial condition for these evolving fields depends, in the CGC effective theory, on a probability distribution for color charges. The energy dependence of this distribution can be calculated from the JIMWLK renormalization group equation.

We discuss recent progress in numerically solving the JIMWLK equation in order to understand properties of the glasma initial state. In particular we discuss work on a practical implementation of the running coupling constant in the Langevin method of solving the JIMWLK equation.

Keywords

Small-x, CGC

Primary author: Dr LAPPI, Tuomas (University of Jyväskylä)

Presenter: Dr LAPPI, Tuomas (University of Jyväskylä)

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