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## The next-to-leading order $\alpha_s$ corrections to JIMWLK

*Wednesday 30 April 2014 17:00 (20 minutes)*

The rapidity (energy) evolution of hadronic observables in scattering of a dilute perturbative projectile on a dense gluonic target is described in QCD by the JIMWLK equation. This is a functional non-linear equation that is consistent with the QCD unitarity. JIMWLK reduces to the linear BFKL equation when the scattering probability is low.

I'll first sketch the way the leading order JIMWLK equation is derived and then discuss the  $\alpha_s^2$  corrections.

Partially based on hep-ph/1310.0378.

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