Contribution ID: **268** Type: **Oral presentation**

Improving the kinematics for low-x QCD evolution equations in coordinate space

Wednesday, 30 April 2014 16:30 (30 minutes)

High-energy evolution equations like BFKL, BK or JIMWLK are derived formally at
infinite energy. In order to use those equations to resum leading logs in a physical observable at any finite energy in a consistent way, one needs to modifiy these equations by a kinematical constraint.
I will discuss this issue in general, and show how to address the additional complications arising in position space, relevant for the BK and BFKL equations, and in the gluon saturation regime. This represent a further step towards gluon saturation phenomenology at NLO/NLL accuracy.

Primary author: BEUF, Guillaume (University of Santiago de Compostela)

Presenter: BEUF, Guillaume (University of Santiago de Compostela)

Session Classification: WG2: Small-x, Diffraction and Vector Mesons

Track Classification: WG2: Small-x, Diffraction and Vector Mesons