## XX International Workshop on Deep-Inelastic Scattering and Related Subjects



Contribution ID: 126 Type: not specified

## Distribution of linearly polarized gluons inside a large nucleus

Thursday 29 March 2012 10:10 (20 minutes)

I will discuss the color glass condensate (CGC) based calculation of two gluon TMDs inside a large nucleus at small x. The main focus is on the linearly polarized gluon TMD which is often referred to as the gluon Boer-Mulders function. With the derived gluon TMDs at small x, it is shown that an effective TMD factorization can be established at small x in a certain kinematical region. As a result, this distribution, in principle, can be accessed through measuring  $\cos 2\phi$  azimuthal asymmetries in various hard scattering processes, such as di-jets production in SIDIS, virtual photon-jet production in pA collisions and heavy quark pair production in pA collisions.

Author: Dr ZHOU, jian (Regensburg University)

Co-author: Prof. METZ, Andreas (Temple University)

Presenter: Dr ZHOU, jian (Regensburg University)

Session Classification: Spin physics

Track Classification: Spin physics