

## Di-hadron angular correlation as a probe of saturation dynamics

*Thursday, 31 May 2012 14:20 (20 minutes)*

Di-hadron angular correlations in the forward rapidity region of proton-nucleus collisions probe multi-gluon correlators (n-point functions of Wilson lines) in the wave function of target nucleus at small  $x$  and thus, provide a more detailed picture of QCD dynamics at high energy (CGC). The Renormalization Group equations that govern the energy dependence of these n-point functions will be derived and their approximate solutions motivated. A connection to an alternative approach to high energy QCD, based on BJKP equation involving pomeron and Reggeon exchanges, will be made.

**Primary author:** JALILIAN-MARIAN, Jamal (Baruch College)

**Presenter:** JALILIAN-MARIAN, Jamal (Baruch College)

**Session Classification:** Parallel IVC: Initial state and pA