



Contribution ID: 46

Type: **not specified**

## Azimuthal asymmetries in the Color glass condensate

The origin of long-range rapidity correlations observed in p-p and p-Pb collisions at LHC is one of the outstanding questions of strong interactions. The leading theoretical explanations of the so-called “ridge” effect are hydrodynamics and the initial state dynamics, with the latter often described in the Color Glass Condensate (CGC) framework. CGC-based calculations have successfully described many “ridge” data. Nevertheless, some challenges still remain: one of the enduring problems of the CGC-based approaches to correlations has been to obtain a non-vanishing value of the triangular “flow” coefficient  $v_3$  clearly observed in the data. In this talk we analytically show that odd harmonics are generated in the double inclusive gluon production when the first saturation correction in the interaction with the projectile is included in the calculation. We discuss the phenomenological relevance of our findings and present numerical calculations.

**Primary author:** Dr SKOKOV, Vladimir (Brookhaven national laboratory)

**Presenter:** Dr SKOKOV, Vladimir (Brookhaven national laboratory)

**Session Classification:** Cancelled