



Contribution ID: 51

Type: **not specified**

## Pair correlations in particle and jet production at the LHC in the parton Reggeization approach

*Sunday 26 July 2015 16:20 (20 minutes)*

We study inclusive azimuthal decorrelations in jet, b-jet and D-meson pair production in proton-proton collisions at the CERN LHC invoking the hypothesis of parton Reggeization in t-channel exchanges at high energies. Using a high-energy factorization scheme with the Kimber-Martin-Ryskin unintegrated parton distribution functions and the Fadin-Lipatov effective vertices we obtain good agreement of our calculations with recent measurements by the ATLAS and CMS Collaborations at the CERN LHC.

**Author:** SHIPILOVA, Alexandera (Samara State University, Samara State Aerospace University)

**Co-authors:** Mr KARPISHKOV, Anton (Samara State University); Mr NEFEDOV, Maksim (Samara State University); Dr SALEEV, Vladimir (Samara State University, Samara State Aerospace University)

**Presenter:** SHIPILOVA, Alexandera (Samara State University, Samara State Aerospace University)

**Session Classification:** CALC2015 Workshop