Contribution ID: **146** Type: **not specified**

Twist expansion of differential cross-sections of forward Drell-Yan process

Sunday, 14 September 2014 15:50 (20 minutes)

In my talk I will present twist expansion of differential cross-sections of forward Drell-Yan (DY) process at high energies. The expansion of all invariant DY form-factors is performed assuming GBW saturation model, and the saturation scale plays the role of the hadronic scale of OPE. Results are given both for the differential cross-sections dependent on the Drell-Yan pair transverse momentum qT and for the inclusive cross-sections. It is shown that the Lam-Tung relation is satisfied at twist 2 and broken at twist 4. The results open the way for a forthcoming analysis of multiple scattering and higher twist effects in DY process at the LHC.

Primary author: Mr STEBEL, Tomasz (Jagiellonian University)

Co-authors: MOTYKA, Leszek (Jagiellonian University); SADZIKOWSKI, Mariusz (Jagiellonian University)

Presenter: Mr STEBEL, Tomasz (Jagiellonian University)

Session Classification: Progress in QCD (III)

Track Classification: Progress in QCD