## XXVIII International Workshop on Deep Inelastic Scattering and Related Subjects



Contribution ID: 10

Type: Contributed Talk

## DIS structure functions and unintegrated PDFs with off-shell matrix elements

*Thursday, 26 March 2020 09:54 (18 minutes)* 

We compute DIS structure functions using off-shell matrix elements based on kT-factorization. The obtained results are used together with parton branching evolution and HERA data in order to fit unintegrated (transverse momentum dependent) parton distributions. This allows us to have a consistent framework where off-shellness of initial partons is treated both in parton evolution and in matrix elements. It also gives us a unique opportunity to estimate the importance of accounting for the off-shellness in matrix elements.

Primary author: KUSINA, Aleksander (Institute of Nuclear Physics PAN)
Co-authors: KUTAK, Krzysztof (IFJ PAN); JUNG, Hannes (DESY)
Presenter: KUSINA, Aleksander (Institute of Nuclear Physics PAN)
Session Classification: Structure function and parton densities

Track Classification: Structure Functions and Parton Densities