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Double parton distributions: evolution, initial conditions and transverse momentum dependence

Monday, 19 November 2018 15:50 (25 minutes)

In the first part of the talk I shall discuss the problem of initial conditions for the double parton distributions, and how to use the information about the momentum sum rule together with the initial conditions for the single parton distributions. In the second part of the talk I will address the transverse momentum dependence in the double parton distributions. The construction is based on the generalization of the KMR approach which uses Sudakov form factors and integrated parton distributions. I will show numerical results on the transverse momentum dependence, hard scale dependence and discuss the issues related to the factorization of the double parton distribution functions into the product of the single parton distributions.

Presenter: STASTO, Anna (Penn State)

Session Classification: Monday