



Contribution ID: 7

Type: **not specified**

Double Parton Distributions for the Nucleon on the Lattice

Thursday 21 November 2019 14:25 (20 minutes)

Double parton distributions (DPDs) are an important piece in the descriptions of double hard interactions. On the lattice we calculate correlation functions of two local quark currents, which can be related to Mellin moments of DPDs. For the first moment we calculate all contributing Wick contractions for the nucleon (proton), considering several channels corresponding to the quark polarisation. Furthermore, we test to what extent a factorization into a convolution of generalized parton distributions (GPDs) is valid.

Author: ZIMMERMANN, Christian

Presenter: ZIMMERMANN, Christian

Session Classification: Double Parton Scattering

Track Classification: Double Parton Scattering