Contribution ID: **245** Type: **not specified**

Generalized TMDs in the exclusive double Drell-Yan process

Wednesday 5 April 2017 15:12 (18 minutes)

Generalized TMDs (GTMDs) of hadrons are the most general two-parton correlation functions. Upon certain projections several GTMDs reduce to generalized parton distributions and transverse momentum dependent parton distributions, respectively. Therefore they can be considered as partonic "mother functions". Moreover, two of the GTMDs play an important and unique role in the spin structure of hadrons.
By studying the exclusive double Drell-Yan process we show, for the first time, explicitly that quark GTMDs can in principle be measured. We will also address other processes that are directly sensitive to GTMDs.

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Session Classification: WG6 Spin and 3D Structure

Track Classification: WG6) Spin and 3D Structure