



Contribution ID: 138

Type: **not specified**

Accessing generalized TMDs through double Drell-Yan and double η_c production processes

Thursday 19 April 2018 10:00 (20 minutes)

Being the “mother distributions” of all types of two-parton correlation functions, generalized TMDs (GTMDs) have garnered a lot of attention. We address the important question of how to access GTMDs in physical processes. Recently, we have shown that quark GTMDs can in principle be probed through the exclusive pion-nucleon double Drell-Yan process, where the focus was on two particular GTMDs only. We now present new results concerning access to the remaining quark GTMDs in the same process. We also extend our study to the nucleon-nucleon double Drell-Yan process which is sensitive to chiral-odd GTMDs. Moreover, we show that GTMDs for gluons can be explored via exclusive double η_c production in hadronic collisions.

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Session Classification: WG6: Spin and 3D structure

Track Classification: WG6: Spin and 3D structure