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TMD phenomenology and Single Spin Asymmetries

Monday, 26 September 2022 09:15 (25 minutes)

I will talk about phenomenology of Transverse Momentum Dependent distributions and the spin asymmetries observed in a variety of scattering processes. I will argue that those asymmetries have a common origin, namely they arise due to the quantum mechanical interference from multi-parton states of the hadron's wave function. I will explain how the theoretical and phenomenological understanding of those correlations is related to the studies the 3-dimensional structure of hadrons at existing and future facilities, including the Electron-Ion Collider.

Presenters: PROKUDIN, Alexey; PROKUDIN, Alexey (PSU Berks and JLab)

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