

The 3-dimensional map of the proton

Thursday 2 October 2025 09:00 (40 minutes)

Transverse-Momentum dependent (TMD) parton distributions are one of the main tools to study the structure of the proton in a three-dimensional momentum space. They encode information on the probability densities of finding a parton with some specific 3D momentum, as well as fundamental spin-orbit correlations between the transverse motion of partons and the proton spin. In this talk I will review different aspects of TMD distributions, from recent theoretical progress in the understanding of their structure to the newest extractions available from experimental data.

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Session Classification: Invited session (I)