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Spin structure of the proton and Transverse Momentum Dependent distributions

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The structure of the proton is described from the point of view of transverse momentum dependent distributions of partons. Complete set of functions describing the structure of the proton at leading twist is defined. TMDs can be studied experimentally in polarised inclusive processes such as Semi Inclusive Deep Inelastic Scattering. Factorization of Semi Inclusive Deep Inelastic Scattering and the properties of the distribution and fragmentation functions with presence of so-called gauge links will be discussed.

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