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Quarkonium production and TMDs at LHC

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In this contribution we briefly discuss an ongoing phenomenological programme on quarkonium production in unpolarised and polarised proton-proton collisions in a fixed target setup at LHCb, the LHCSpin project. Within a TMD approach, we will consider in particular: the relative role of the NRQCD color-singlet and color-octet production mechanisms, both for unpolarised and polarised quarkonium production; the study of transverse single spin asymmetries as a tool for learning about the almost unknown gluon Sivers function.

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