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## Quarkonium production and TMDs at LHC

*Tuesday 9 April 2019 11:30 (20 minutes)*

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.

**Author:** Dr MURGIA, Francesco (INFN - Sezione di Cagliari)

**Co-authors:** Prof. D'ALESIO, Umberto (University and INFN, Cagliari, Italy); Dr PISANO, Cristian (University and INFN Cagliari (Italy)); Dr SANGEM, Rajesh (University and INFN, Cagliari, Italy)

**Presenter:** Dr MURGIA, Francesco (INFN - Sezione di Cagliari)

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