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## **MCEG for TMD physics: the quest to characterize perturbative and non perturbative QCD phenomena**

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TMD observables are sensitive to both perturbative and nonperturbative QCD effects, in particular in kinematic regions associated with low transverse momentum. Such observables are described in the CSS formalism using field theoretic objects like TMD PDFs and TMD FFs which in turn depend on nonperturbative components. In contrast, MCEG uses parton shower and hadronization models such as the LUND string in order to describe the same types of observables. In this talk I will present ongoing research work that attempts to construct a language dictionary between the CSS formalism and MCEG with the ultimate goal to develop a MCEG for TMDs and to improve the TMD formalism.

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