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HIGH ENERGY PHYSICS COLLOQUIA

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PROBING GLUON SIVERS AND BOER-MULDERS TMDs IN J/ψ PRODUCTION IN ELECTRON-PROTON COLLISION

Abstract

Among the eight leading twist gluon TMDs (transverse momentum dependent distribution functions) Sivers and Boer-Mulders functions are not yet known completely. Hence, the quantification of these TMDs is still enigmatic except knowing its theoretical upper bound. In this talk we discuss the possibility to probe the gluon Sivers and Boer-Mulders TMDs in J/ψ production in electron-proton collision using the NRQCD framework for J/ψ production.

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