



Contribution ID: 13

Type: **not specified**

Polarized J/ψ TMD fragmentation functions

Thursday, 30 March 2023 09:00 (20 minutes)

We derive the leading-order polarized transverse momentum dependent fragmentation functions (TMDFFs) for light quark and gluon partons fragmenting to a J/ψ , and match the TMDFFs onto NRQCD. While unpolarized TMDFFs for quarkonium have been computed, a systematic treatment of the FFs for polarized quarkonium and parton has yet to appear in the literature. This will be crucial for making predictions for J/ψ production cross sections at low transverse momentum, and allow for new tests of the NRQCD factorization formalism.

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Session Classification: Session 12