

# XXVIII International Workshop on Deep Inelastic Scattering and Related Subjects



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## The gluon Sivers function at the EIC

*Thursday, 26 March 2020 10:00 (20 minutes)*

In this talk, I will introduce our study on the probing transverse momentum dependent gluon Sivers function in open charm and charm jets production at the future EIC. We derive the theoretical framework to calculate heavy-quark pair and heavy jet pair production in the small transverse momentum region. Based on the factorization and resummation formula, we resum large logarithms in the small  $q_T$  region and present the theoretical predictions for the single-spin asymmetry.

**Primary authors:** Dr SHAO, Dingyu (UCLA); KANG, Zhongbo (University of California Los Angeles); LEE, Kyle

**Presenter:** Dr SHAO, Dingyu (UCLA)

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