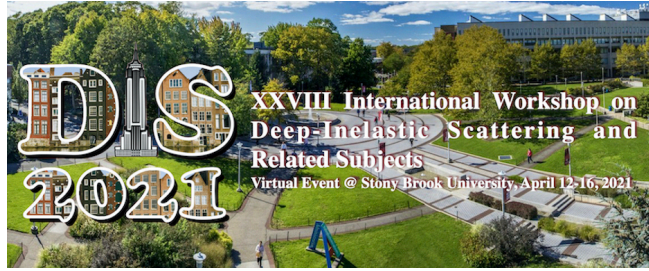


XXVIII International Workshop on Deep-Inelastic Scattering and Related Subjects



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NLO inclusive J/ψ photoproduction at large P_T at HERA and the EIC

Tuesday, 13 April 2021 10:01 (18 minutes)

We study inclusive J/ψ photoproduction at NLO at large P_T at HERA and the EIC. Our computation includes NLO QCD leading P_T corrections, QED contributions via an off-shell photon as well as those from J/ψ +charm channels. For the latter, we employ the variable-flavour-number scheme. Our results are found to agree with the latest HERA data by H1 and provide, for the first time, a reliable estimate of the EIC reach for such a measurement. Finally, we demonstrate the observability of J/ψ +charm production and the sensitivity to probe the non-perturbative charm content of the proton at high x , also known as intrinsic charm, at the EIC.

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