

DIS2023: XXX International Workshop on Deep-Inelastic Scattering and Related Subjects



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Type: **Parallel talk**

Quarkonia pair production as a tool for study of gluon GPDs

Tuesday, 28 March 2023 09:40 (20 minutes)

In this talk we present our theoretical studies of heavy quarkonia pair electro- and photoproduction in the collinear factorization framework. We focus on $J/\psi \eta_c$ pair production, and discuss the relation of different observables to generalized parton distributions (GPDs) of gluons. The unpolarized cross-section is dominated by contributions of transversely polarized J/ψ mesons, which in the leading twist is controlled by the unpolarized gluon GPDs H_g, E_g . We also discuss other observables which might be sensitive to other GPDs of gluons. We provide numerical estimates in the kinematics of the future Electron Ion Collider.

Submitted on behalf of a Collaboration?

No

Participate in poster competition?

No

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Track Classification: WG5: Spin and 3D Structure