22nd International Spin Symposium



Contribution ID: 240 Type: not specified

Quarkonium production at a future electron-ion collider

Wednesday 28 September 2016 10:15 (20 minutes)

We discuss results for exclusive quarkonium photo- and electro production off the nucleon using the framework of generalized parton distributions (GPDs). A particular emphasis is on the gluon GPD Eg, which is related to the total angular momentum of gluons inside the nucleon. At present, Eg is basically unconstrained. On the basis of different models for Eg we estimate the transverse target spin asymmetry for typical kinematics of a future electron ion collider. We also explore the potential of measuring the polarization of the recoil nucleon.

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Session Classification: Helicity & Future Joint

Track Classification: I. Future