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## 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  $E_g$ , which is related to the total angular momentum of gluons inside the nucleon. At present,  $E_g$  is basically unconstrained. On the basis of different models for  $E_g$  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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