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Prospects for measurements of gluon TMDs

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Transverse momentum dependent parton distributions (TMDs) are currently under active investigation, both theoretically and experimentally. For studies of the gluon TMDs higher energy and smaller x values are required, and often processes involving almost back-to-back high- p_T particles. These processes can be studied in the required kinematic regime at the high energy hadron colliders RHIC and LHC, and at a future Electron-Ion Collider. In this talk the prospects will be discussed for studies of the distributions of unpolarized and linearly polarized gluons inside unpolarized protons, and of the gluon Sivers effect for transversely polarized protons. Here the emphasis will be on the promising observables, on the inevitable process dependence and its implications, and on the expected dependence on the kinematic variables.

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