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Utilizing Jets at the Electron-Ion Collider: Parton Kinematics and Substructure

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Recently, there has been increasing recognition that jet measurements can be an important component of the physics program at the future Electron-Ion Collider (EIC). Jets are a more effective proxy for partonic kinematics than the single hadron measurements usually performed in Deep Inelastic Scattering experiments, while substructure techniques can be used to examine non-perturbative effects as well as probe the properties of cold nuclear matter. In addition, the relatively clean environment at the EIC will reduce the complications introduced by large underlying event activity found in high energy pp and AA collisions. This contribution will highlight results from two recent papers, the first of which demonstrates the utility of jets as parton surrogates via measurements of the gluon Sivers function with dijets, and a second that explores the feasibility of substructure measurements at the EIC. Future directions will also be discussed.

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