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Jets and Jet Substructure at an EIC

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The goal of the planned high-energy high-luminosity polarized electron-ion collider (EIC) is a detailed understanding of the QCD dynamics that underlie the nucleons and nuclei. With advances in experimental technique and theoretical understanding over the past several decades, jets have become precision tools in the exploration of QCD in collider environments. Therefore, precision jet measurements have the potential to be important components of the electron-hadron and electron-nucleus EIC physics programs. One property of jets that may prove especially useful is that their substructure, i.e. their internal energy distribution, can be rigorously defined and studied systematically. This contribution will discuss possible uses for substructure observables at an EIC as well as outline various experimental aspects of their measurement.

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