

Abstract Submitted
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Jets at the Electron-Ion Collider MIGUEL ARRATIA, University of California, Berkeley — The EIC will be the first e-A collider and will produce the first jets in nuclear DIS. Jets will enable new type of studies of nuclei that extend beyond traditional single-hadron measurements. These studies may help us understand the structure and behavior of nuclei in terms of quarks and gluons a key goal of modern nuclear physics. In particular, jets from nuclear DIS will shed light on quark-matter interactions, the quark-to-hadron transition, and the quark structure of nuclei. DIS offers us the ultimate arena for these studies with controlled quark kinematics and flavor as well as medium length and density. In this talk, I will discuss the prospects of measurements such as lepton-jet correlations, flavor-tagged jets, and jet substructure variables that could exploit the unprecedented combination of hermetic tracking, PID and calorimetry of the EIC detectors.

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