Abstract Submitted
for the DNP19 Meeting of
The American Physical Society

Exploring Jet Observables at an EIC with the JETSCAPE Framework KOLJA KAUDER, Brookhaven National Laboratory — The JETSCAPE collaboration recently version 2.0 of an innovative modular event generator and simulation framework with a unified interface and a comprehensive suite of model implementations for all stages of ultra-relativistic heavy ion collisions. The framework's modularity and agnosticism regarding the underlying physics assumptions make it a promising platform for developing Monte Carlo models of electron-ion collisions specifically because it allows to concentrate on one aspect at a time, such as medium interaction or hadronization, while leaving other modules unchanged. An overview of necessary modifications and baseline performance for electron+proton collisions will be presented, as well as a first look at possible jet modification observables in e+nucleus collisions.

Kolja Kauder
Brookhaven National Laboratory

Date submitted: 29 Jun 2019 Electronic form version 1.4