

(EIC related) News from DIS2023

Wenqing Fan EIC RNC meeting, 04/04/2023

Biased selection focusing on jets and heavy flavor

- Theory and MC models
 - Transverse momentum distribution of charmonium production in lepton-hadron scattering at the EIC
 - A renomalization group analysis of medium-modified fragmentation in SIDIS
 - Towards electron-ion event generation in Pythia
 - <u>Centrality-dependent jet and hadron cross sections in eA reactions at the EIC</u>
 - Target jet substructure and correlation
 - Imaging cold nuclear matter with energy correlators
 - Collins-type Energy-Energy Correlators and Nucleon Structures
- Many jets/lepton-jet correlation measurement using archived H1 data (with ML unfolding)
 - Lepton-Jet Azimuthal Asymmetry in H1 using MultiFold
 - Machine learning-assisted measurement of multi-differential lepton-jet correlations in deep-inelastic scattering with the H1 detector
 - Multi-differential Jet Substructure Measurement in High Q2 DIS Events with HERA-II Data