

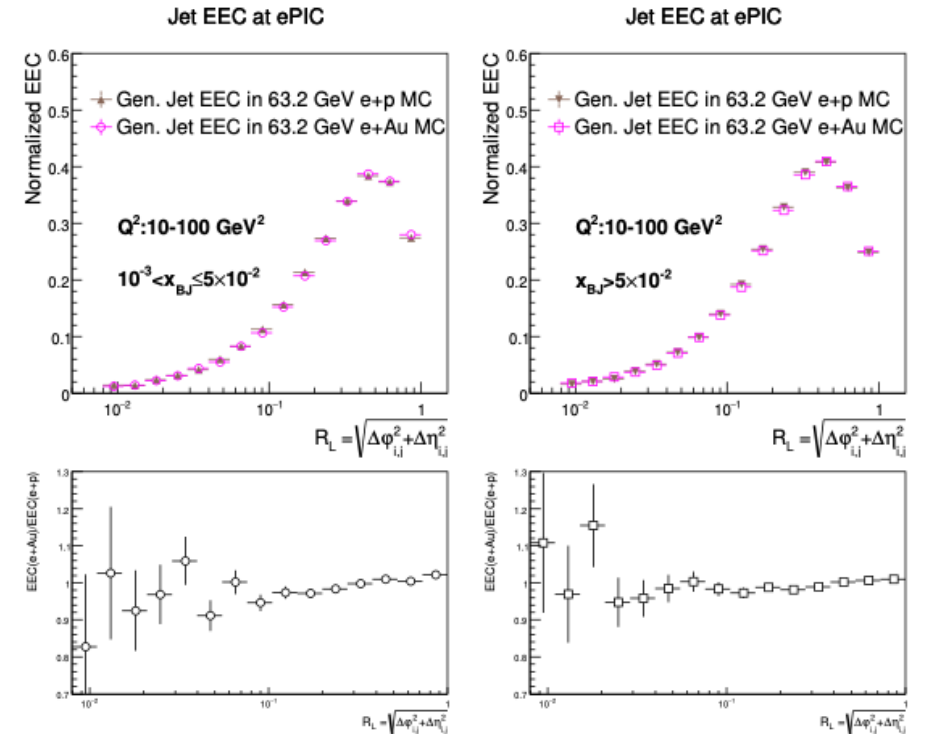
Charged jet EEC at ePIC

- Motivation

- Jet energy energy correlator observables are sensitive to the internal structure of the parton shower and the onset of non-perturbative hadronization. The measurement of scattered electron at the EIC will provide a precise handle on the hard-scattering kinematics. Therefore, the struck-parton kinematics can be much accurately determined than in p+p (heavy ion) collisions.

- Plots to include

- Jet EEC distributions in e+p and e+Au collision at the truth and reco. Level.
- Ratio of the jet EEC between e+Au and e+p collisions.
- Jet EEC in different x_{BJ} bins.
- Compare jet EEC in e+p collisions at different center of mass energies (p_T XEEC).



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- Current status of the analysis
 - The analysis framework has been developed. Under cut fine tuning and plan to study the distributions at different jet cone radii.
 - Will be ready for the July simulation campaign.
 - Need to coordinate with Denner to have the same jet definition.
- Simulation samples
 - e+p 9X130 DIS
 - e+Au 9X100 DIS
 - e+p 9X275 DIS