

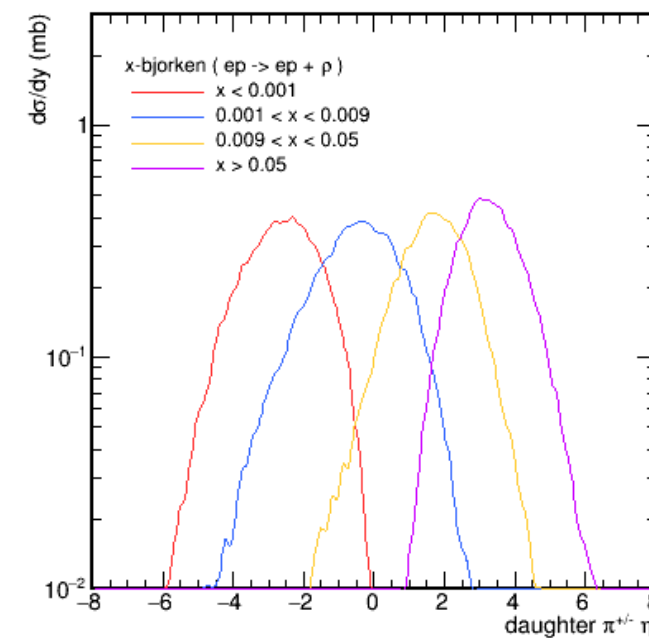
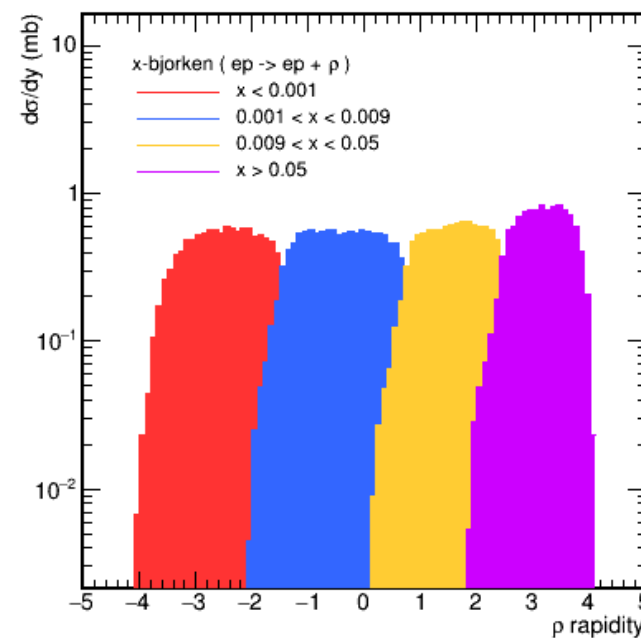
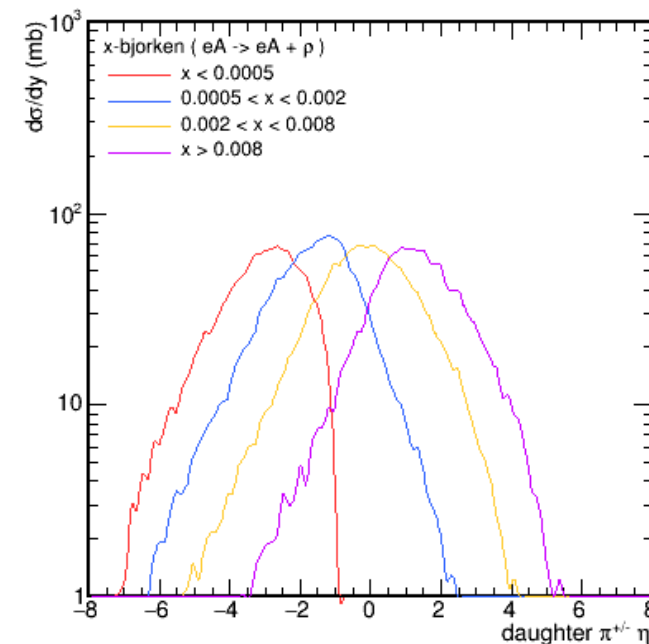
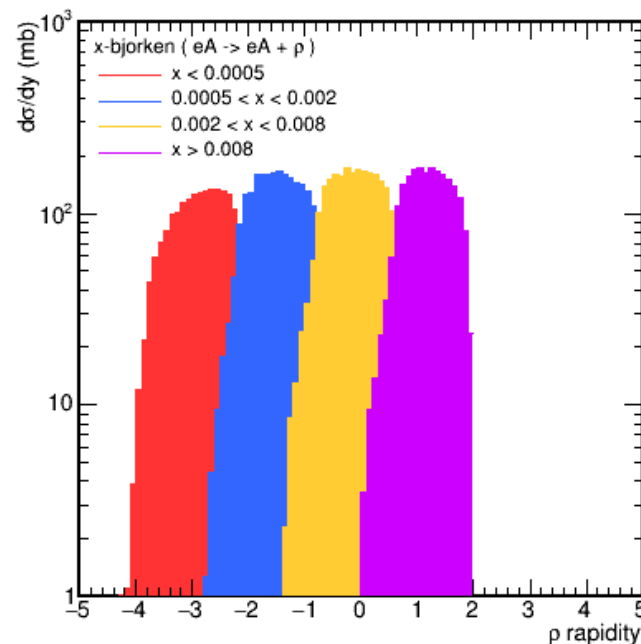
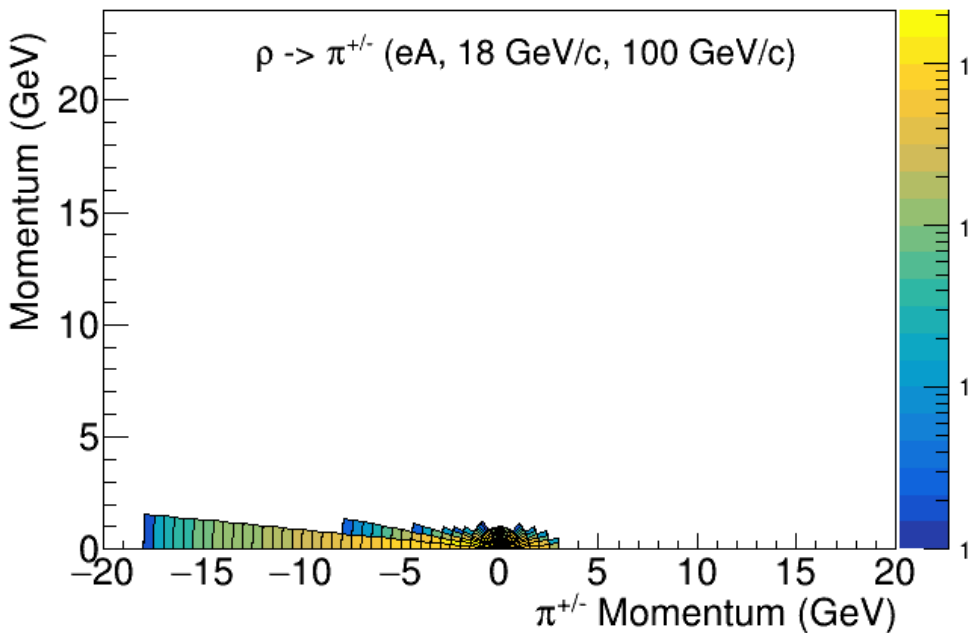
VM Production of ω and $\rho \rightarrow \pi^+ \pi^-$ eStarlight

Samuel Heppelmann

UC Davis & LBNL

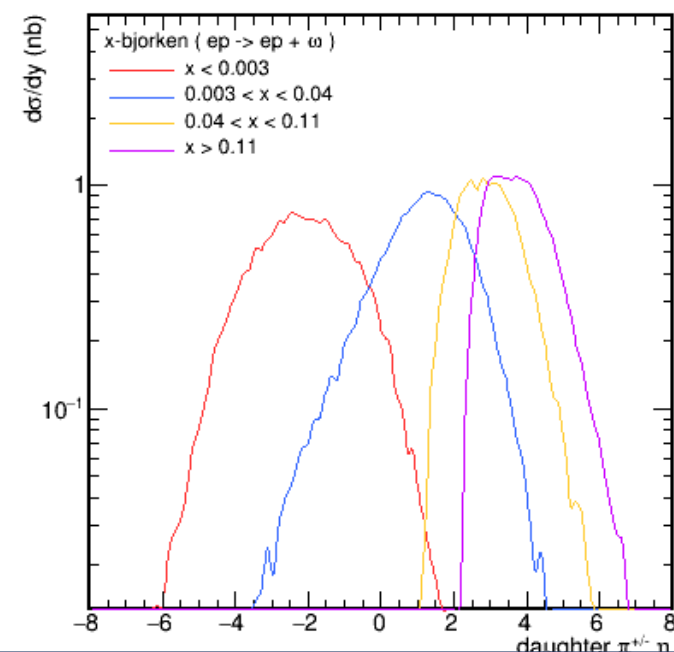
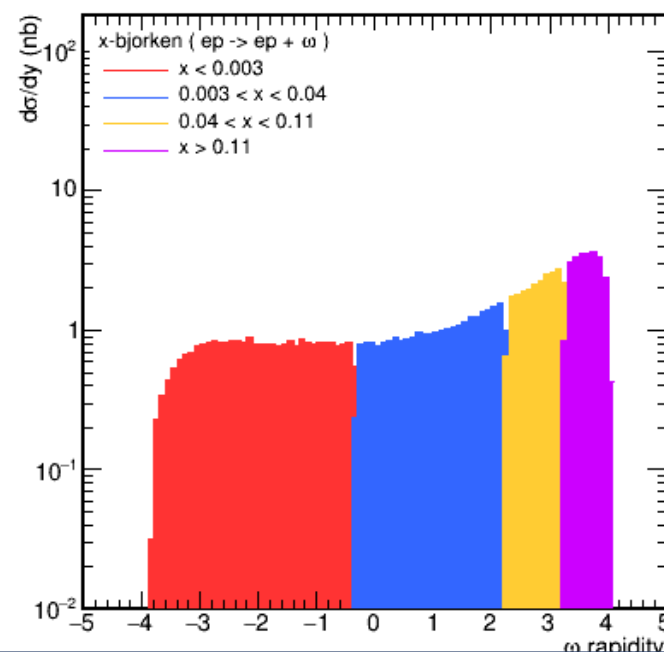
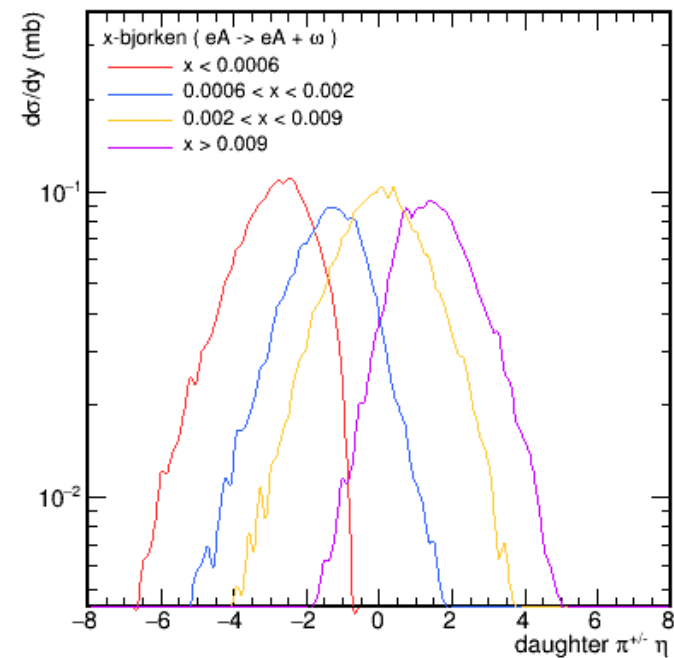
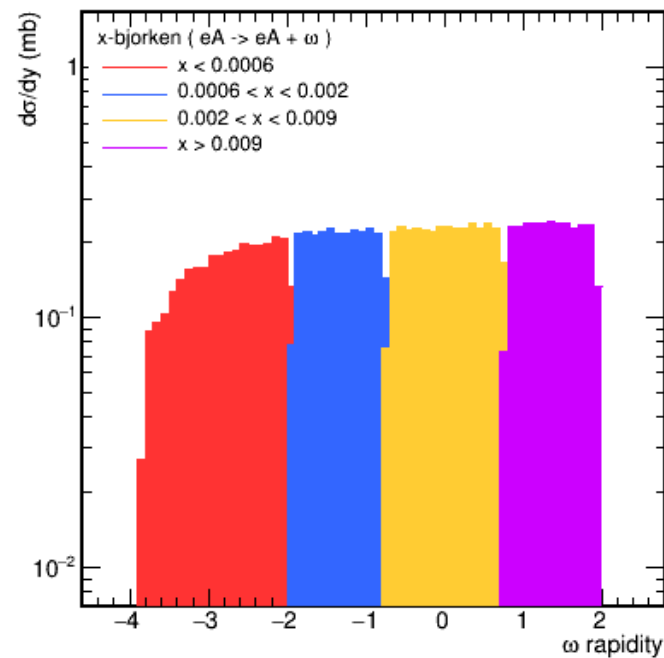
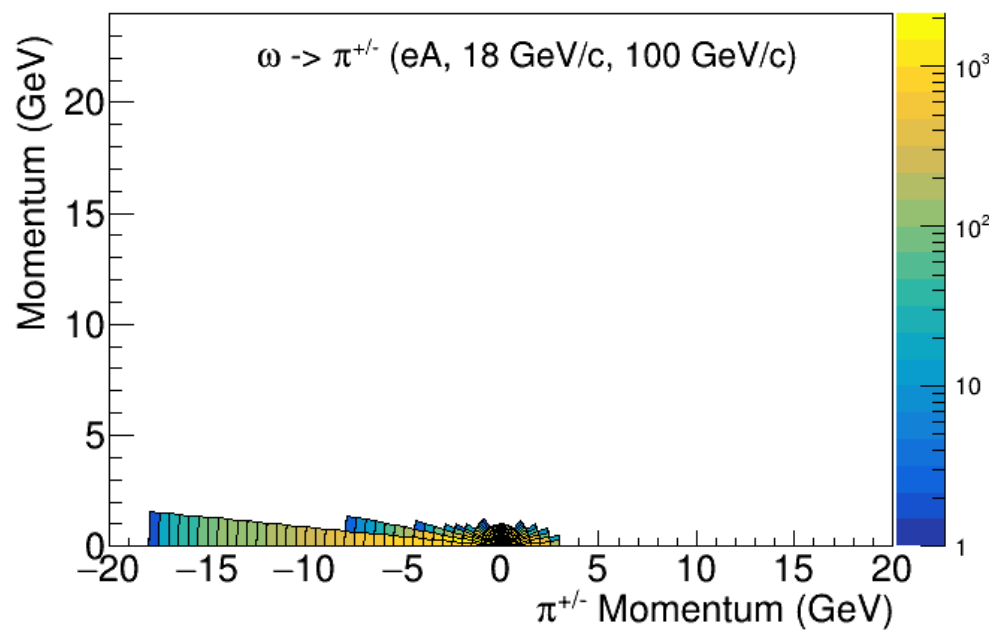
ρ production

(ep and eA, 18 GeV, 100 GeV)



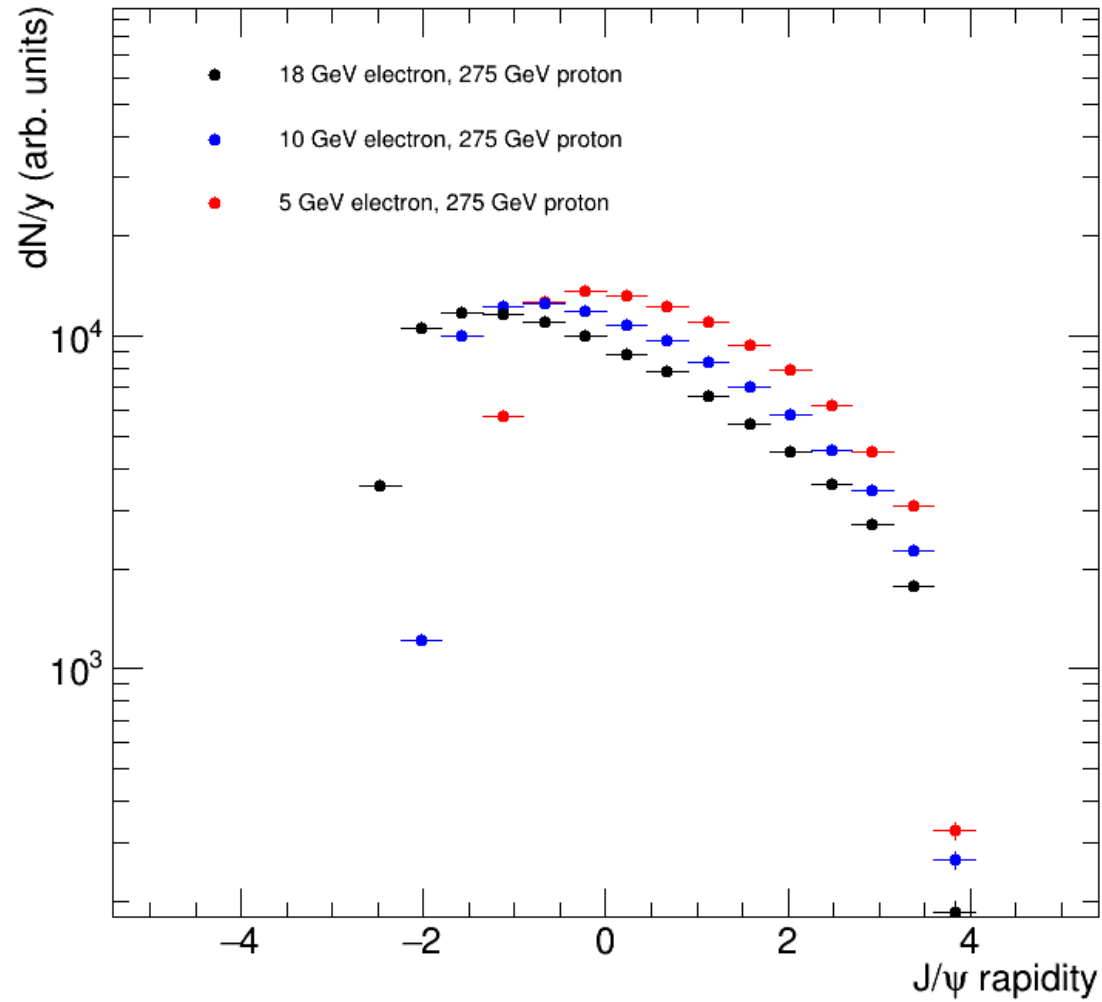
ω production

(ep and eA, 18 GeV, 100 GeV)

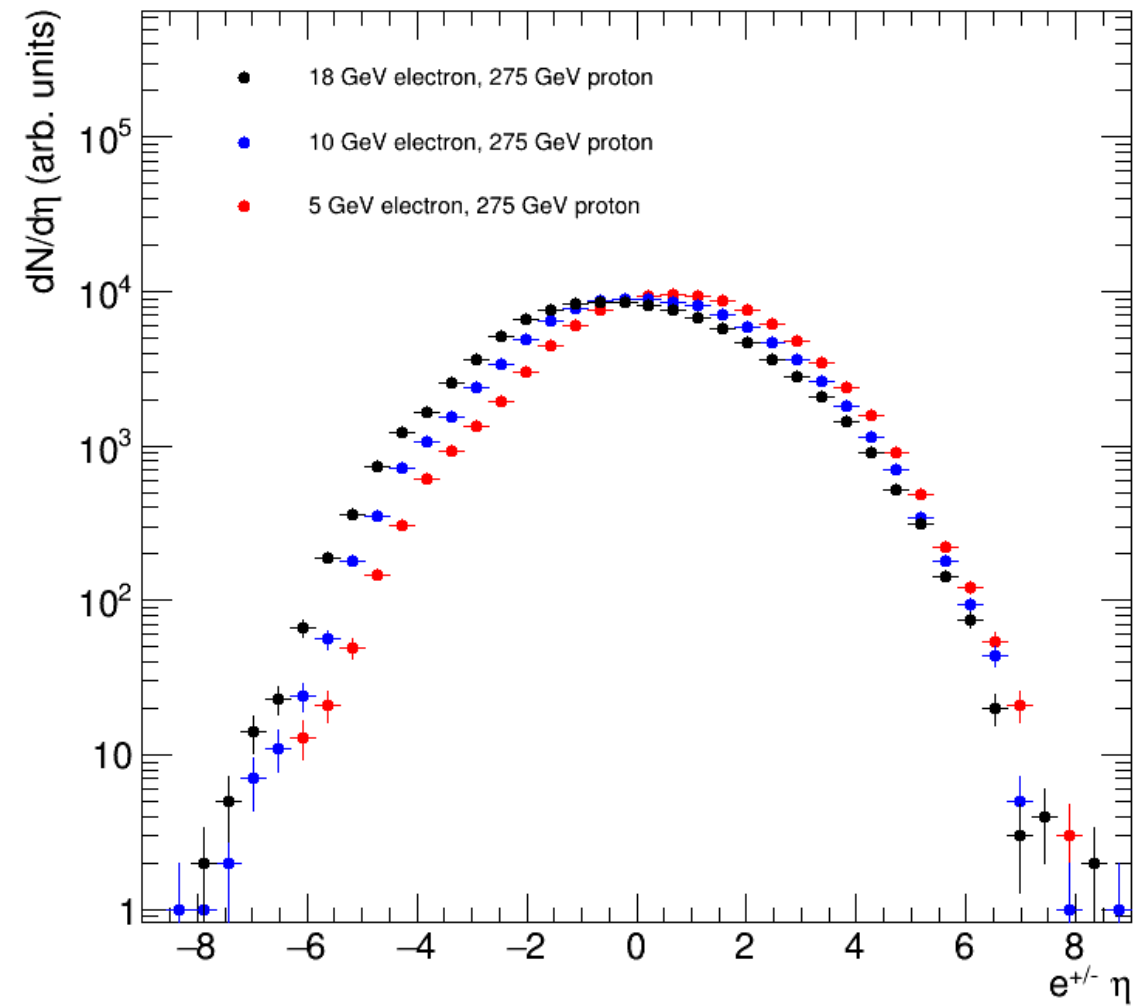


EIC Energy Scan

$J/\psi \rightarrow e^+e^-$, $0 < Q^2 < 1 \text{ GeV}^2$



$J/\psi \rightarrow e^+e^-$, $0 < Q^2 < 1 \text{ GeV}^2$



Summary

eSTARlight simulations for photoproduction of ω and $\rho \rightarrow \pi^+ \pi^-$

Systems studied:

Collider configurations:

Electron (18 GeV) on Au (100 GeV) for and

Electron (18 GeV) on protons(100 GeV)

Vector Mesons:

$\rho \rightarrow \pi^+ \pi^-$

$\omega \rightarrow \pi^+ \pi^-$