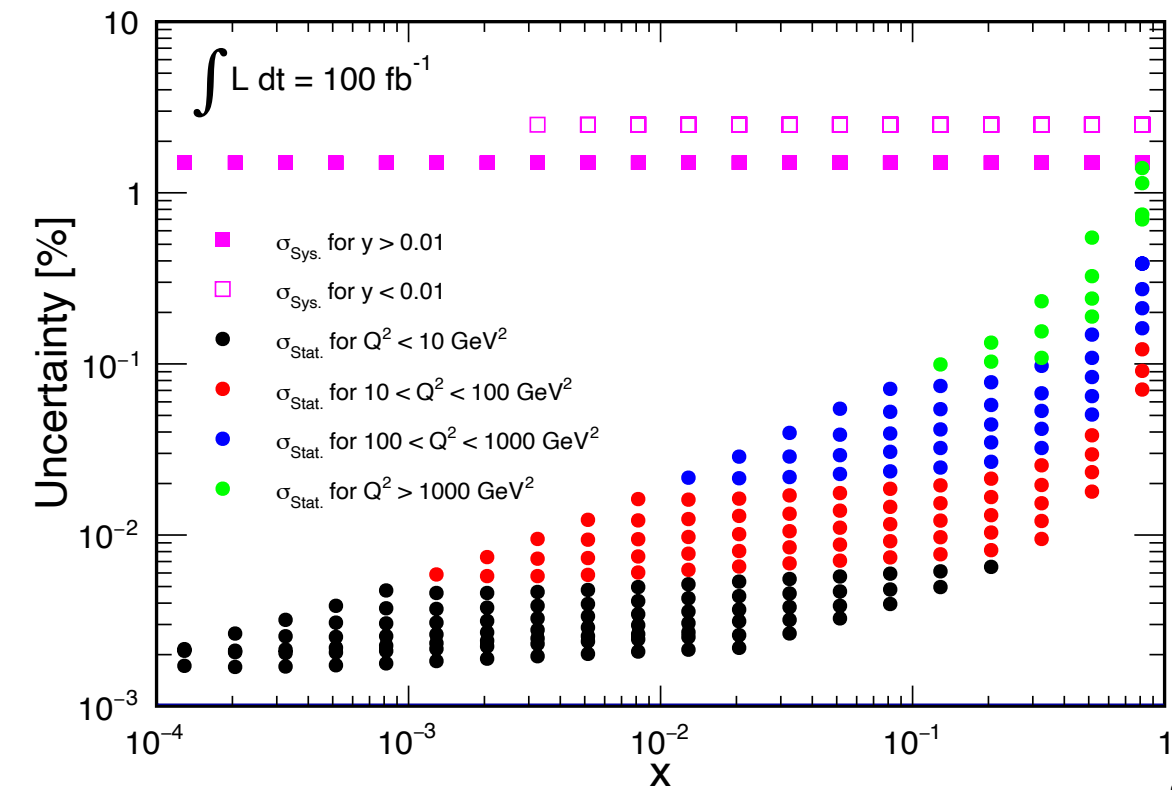


Measurements with inclusive reactions

- Structure functions:
 - F_2^A at low- x (NC and CC)
 - $F_L^A(x, Q^2)$ (requires multiple \sqrt{s})
- Double spin asymmetries A_{LL} and A_{LT} :
 - A_1^p vs. x (longitudinally polarized proton)*
 - A_1^n vs. x (longitudinally polarized ^3He)*
 - Twist-3 g_T^A vs. x (transversely polarized proton, ^2H , ^3He)

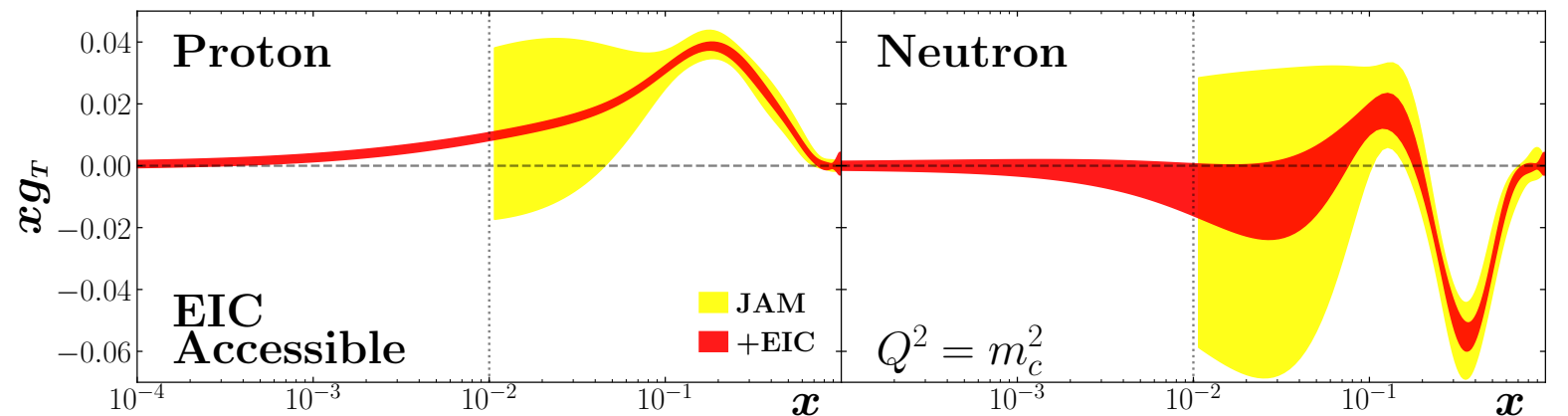
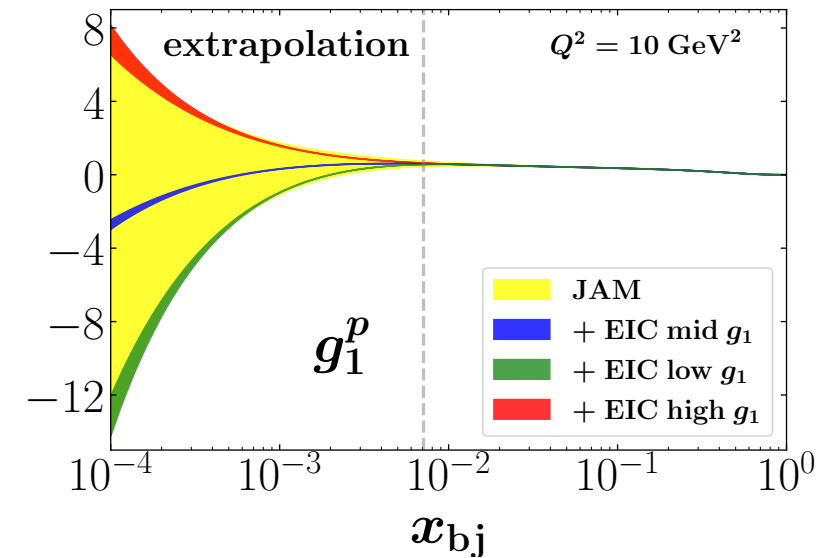
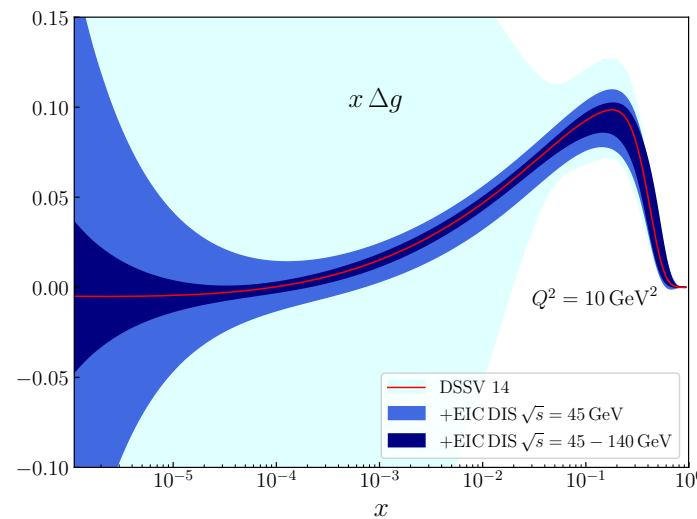
*overlap with Tagging & Diffraction WG?

Related plots from YR



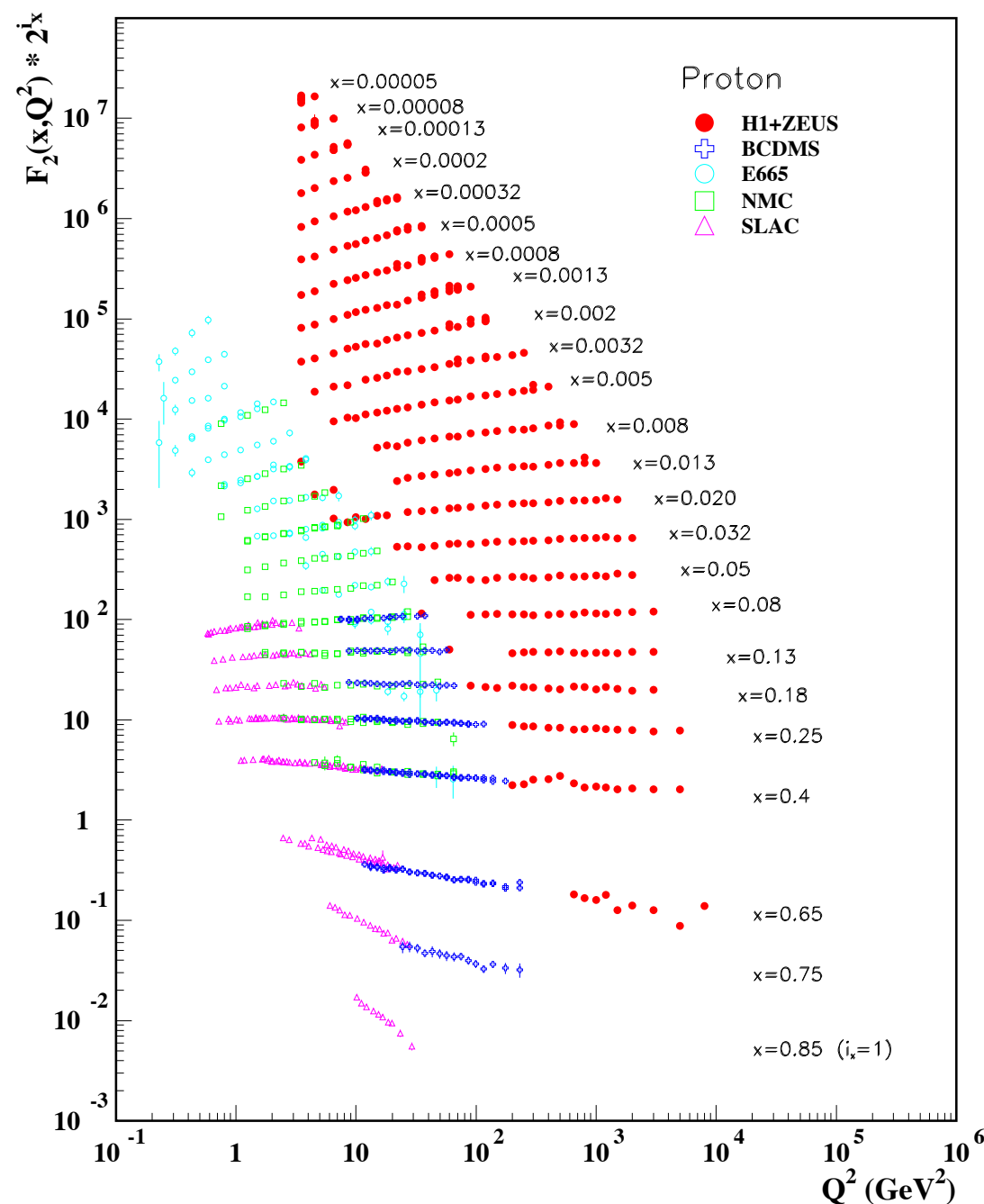
Kinematic
reach

Impact



Plots for ECCE

- Focus on observables (structure functions, asymmetries, etc.)
- PDG-style plot of projected structure function measurements across all x , Q^2



Simulation

- Neutral current (detect scattered electron):
 - Get electron resolution from fun4all, then use physics generator + fast smearing?
 - Study background suppression with electron/pions in fun4all
 - Separate physics from background
- Charged current (detect hadronic final state):
 - Jacquet-Blondel method (sum momentum, energy of final state hadrons)
 - “Smearing” approach okay, or is full simulation required?
 - What background to worry about?

Event generators

- DJANGO
 - NC/CC structure functions
 - Longitudinal polarization
 - Nuclear targets, or just proton?
 - Could be used for F_2^A , F_L^A , A_{LL}
- Nuclear targets?
- Transversely polarized targets for A_{LT} ?