

PVVDIS “Final”

Results

Electron

PVDIS

Summary

Data: Electron PVDIS, proton + deuteron targets

Luminosity: 100 fb⁻¹ each for proton and deuteron

Polarization: $P = 0.7$, $\delta P = 0.007$

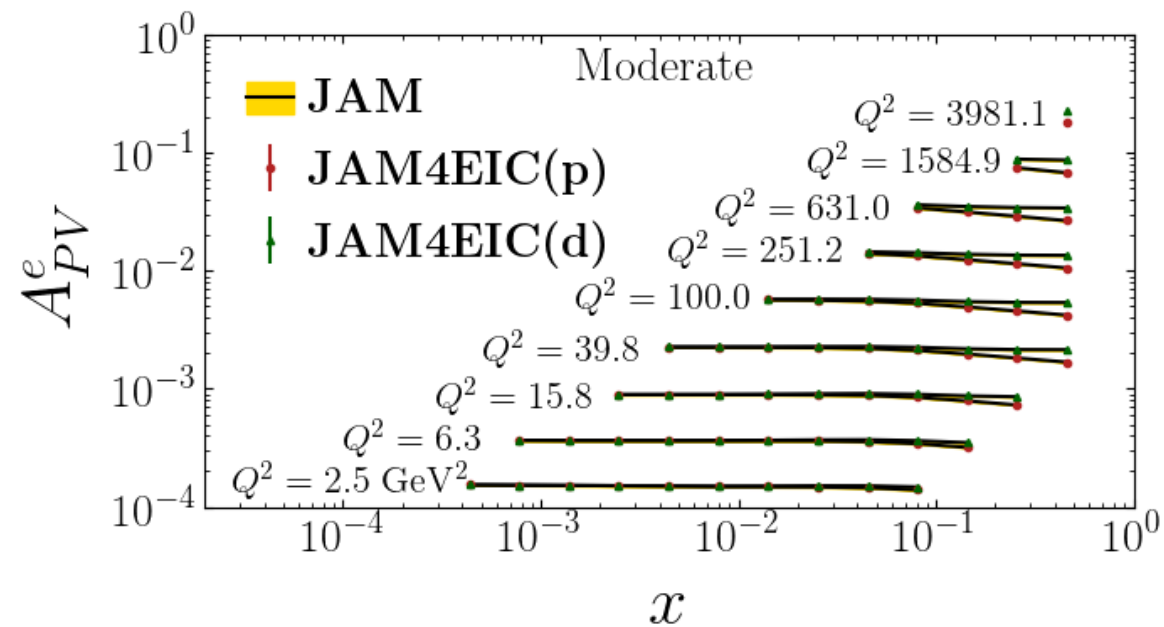
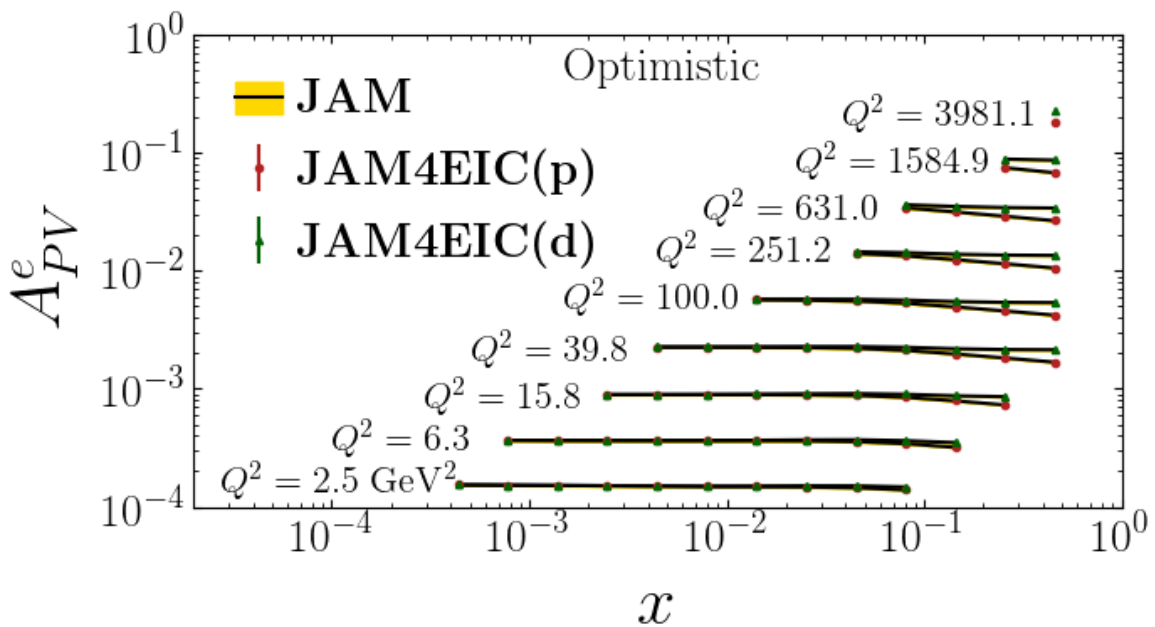
Further systematic errors:

Optimistic: No further errors

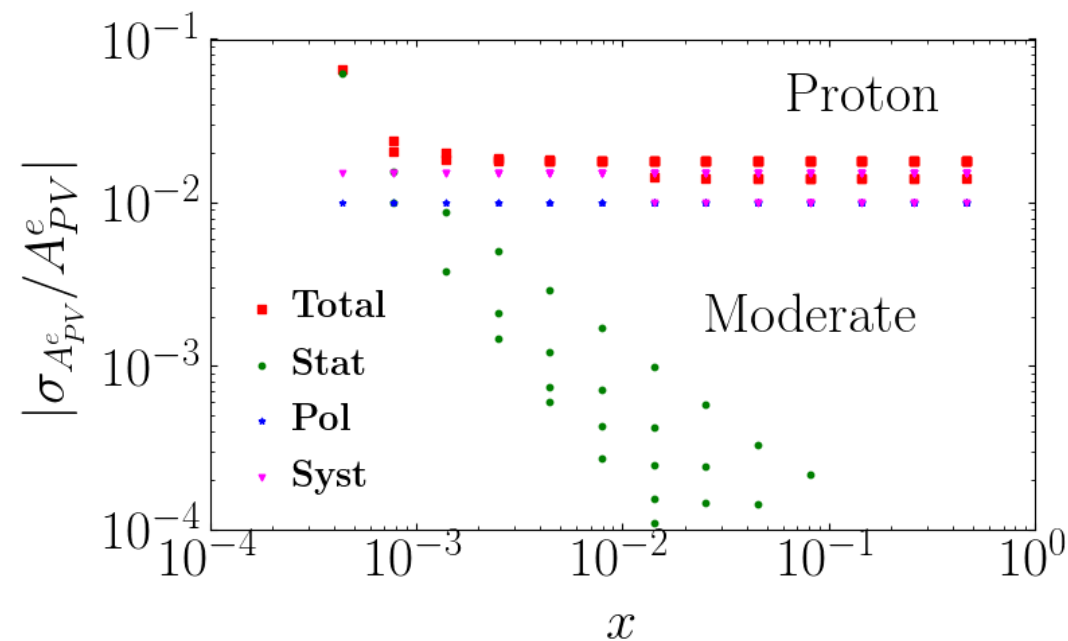
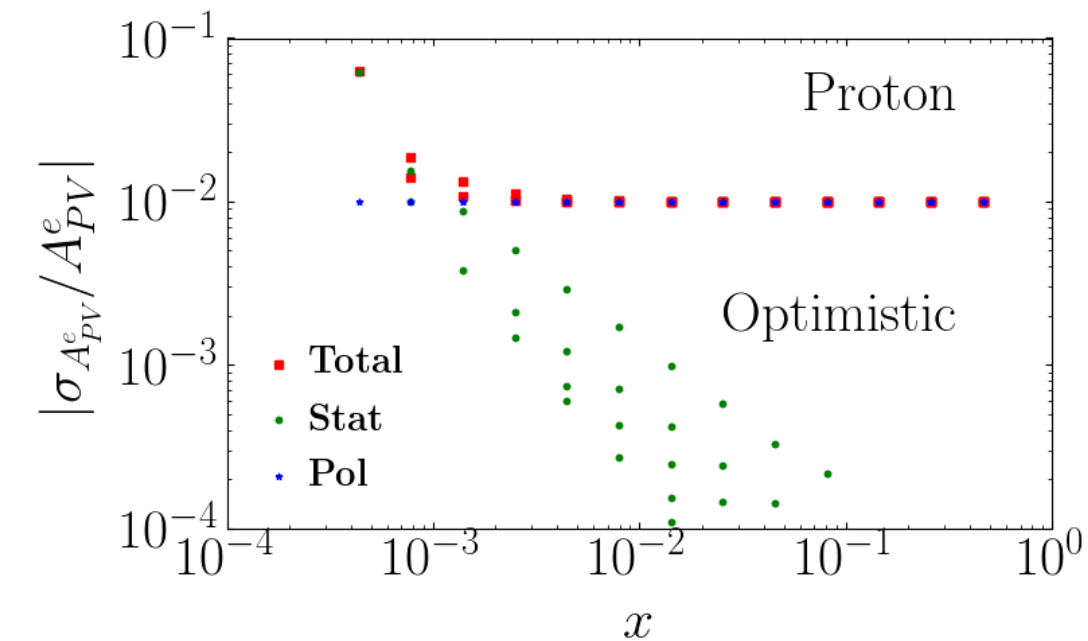
Moderate: 1% for $y < 0.01$, 1.5% for $y > 0.01$

Pessimistic: ???

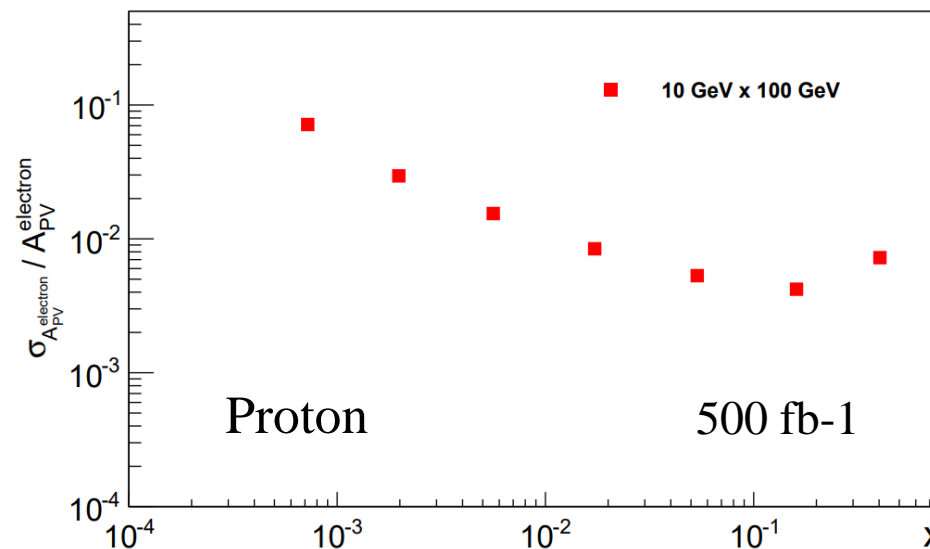
Asymmetry



Errors (proton)

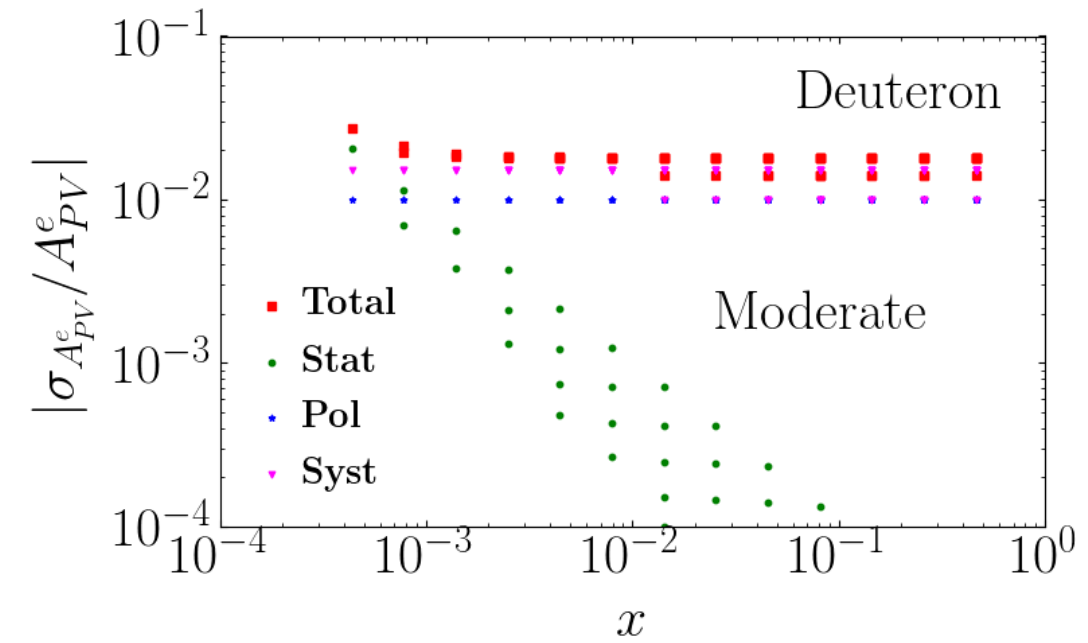
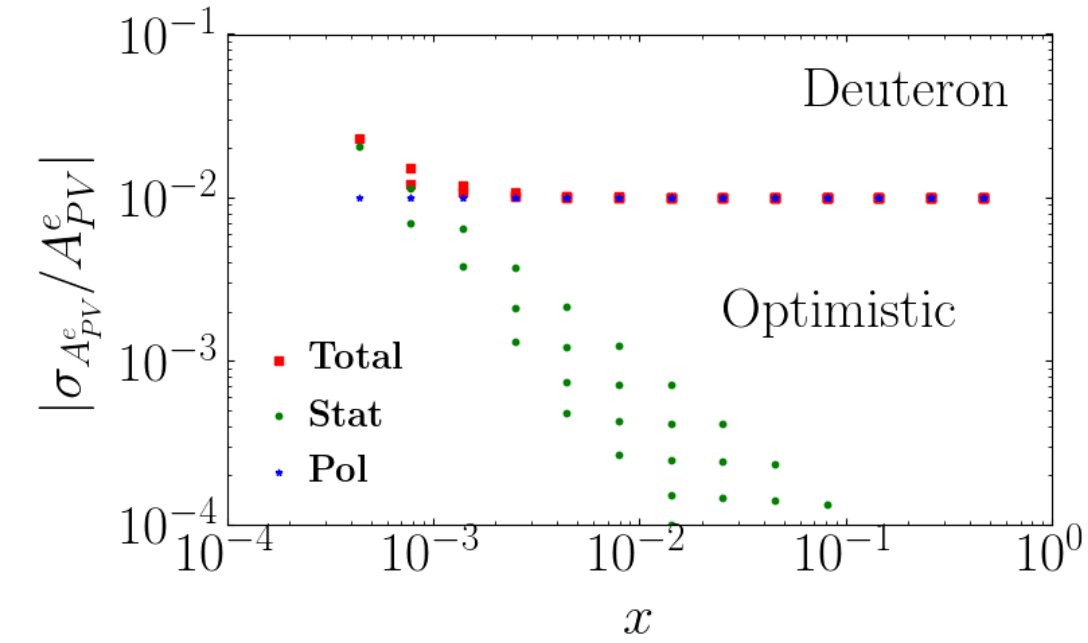


(Pessimistic goes here)

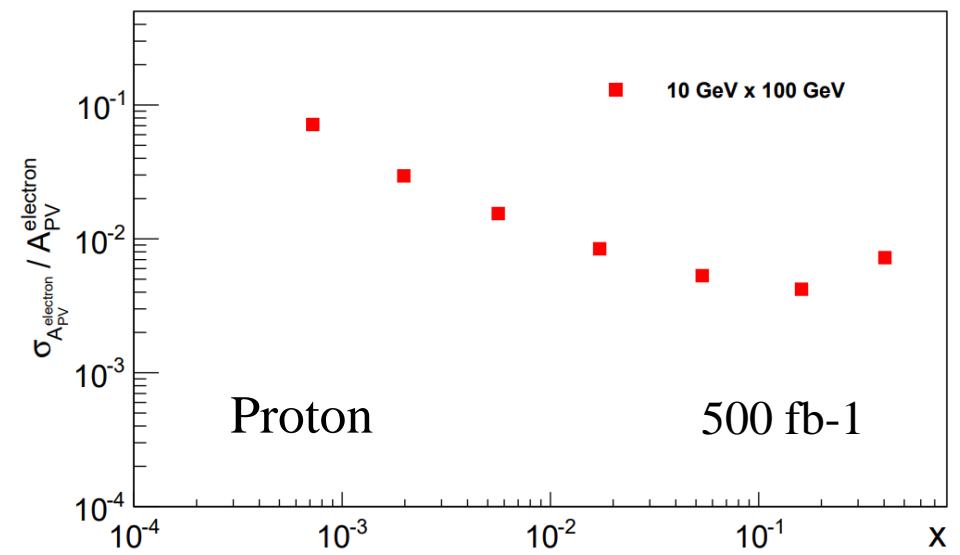


(Y.X. Zhao, A. Deshpande, J. Huang, K. S. Kumar, S. Riordan, Eur. Phys. J. A (2017) 53: 55)

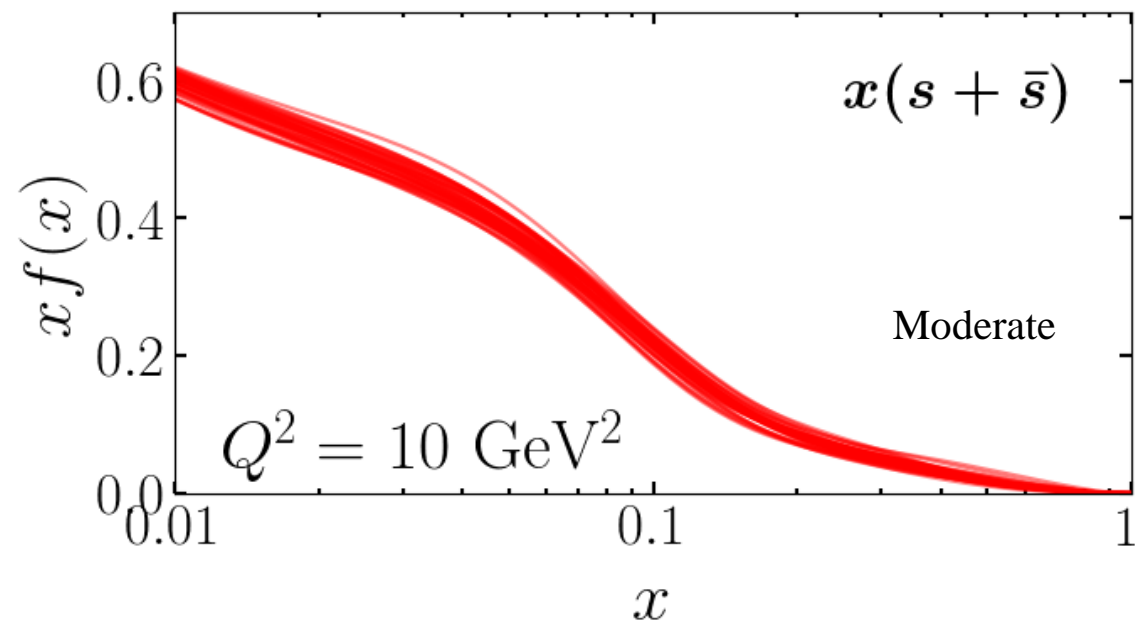
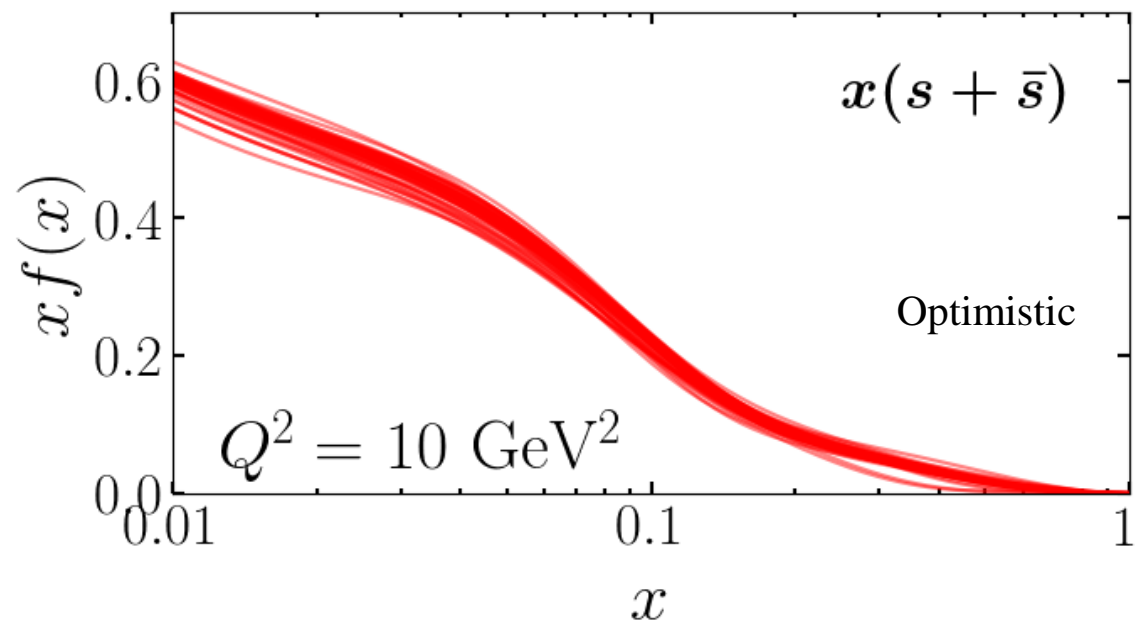
Errors (deuteron)



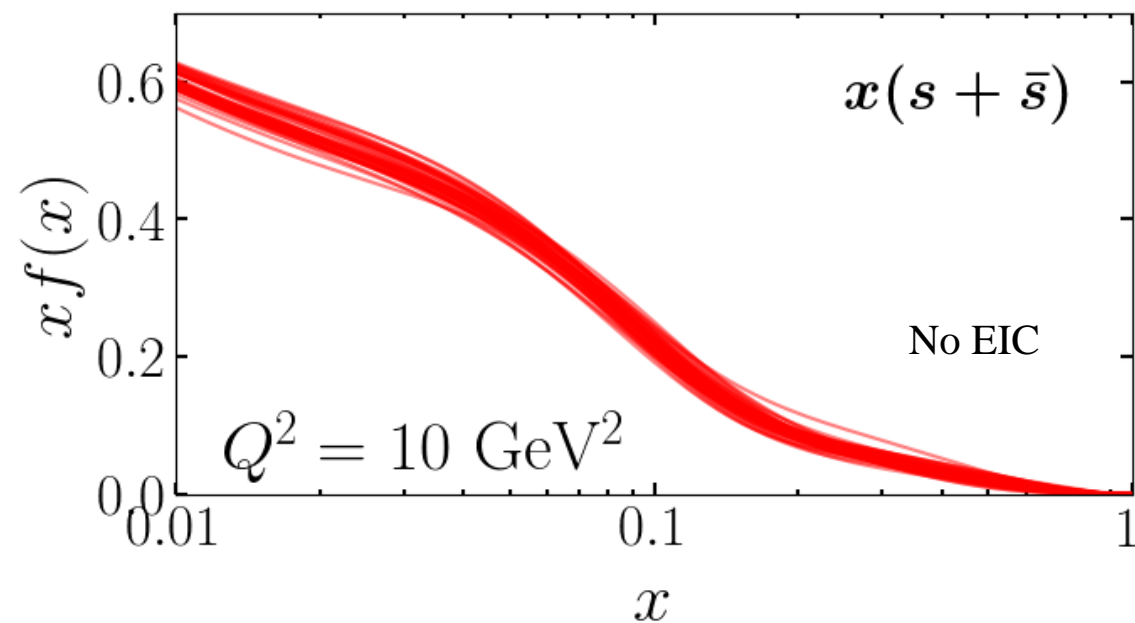
(Pessimistic goes here)



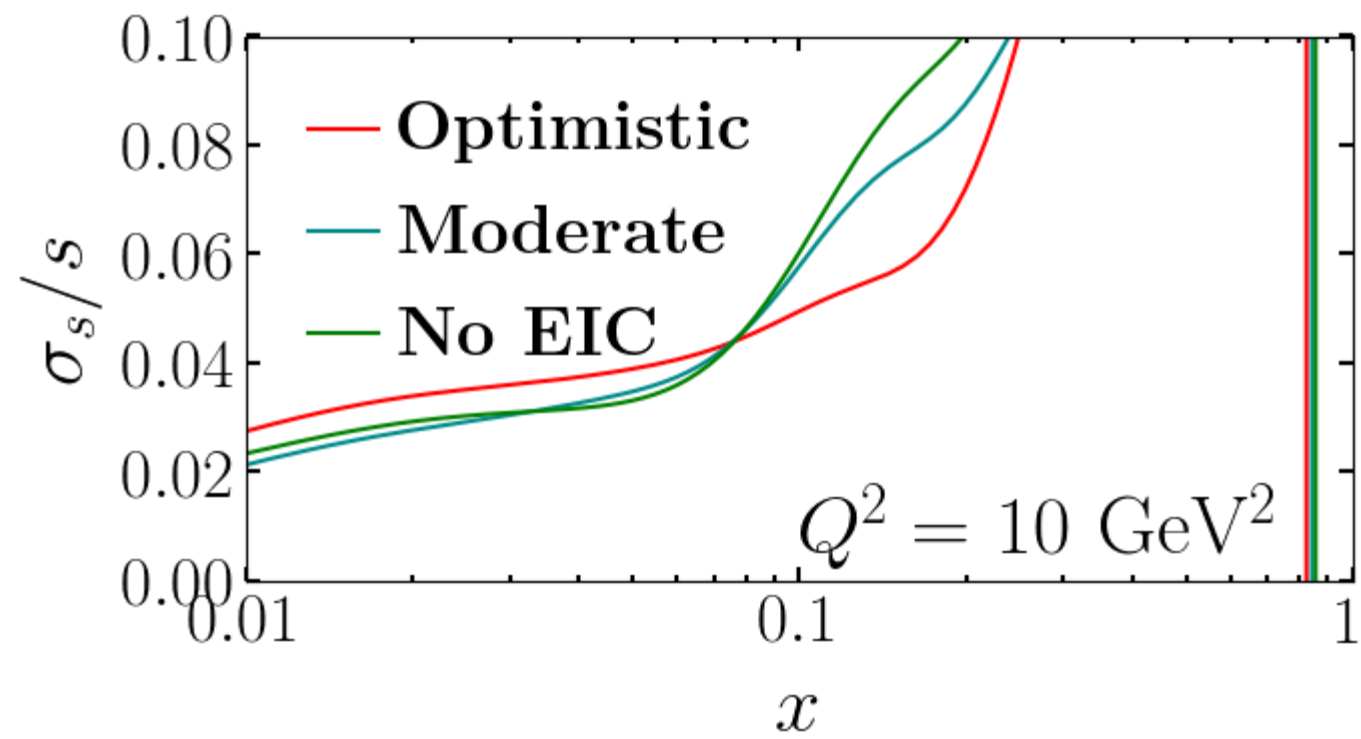
Strange Distribution



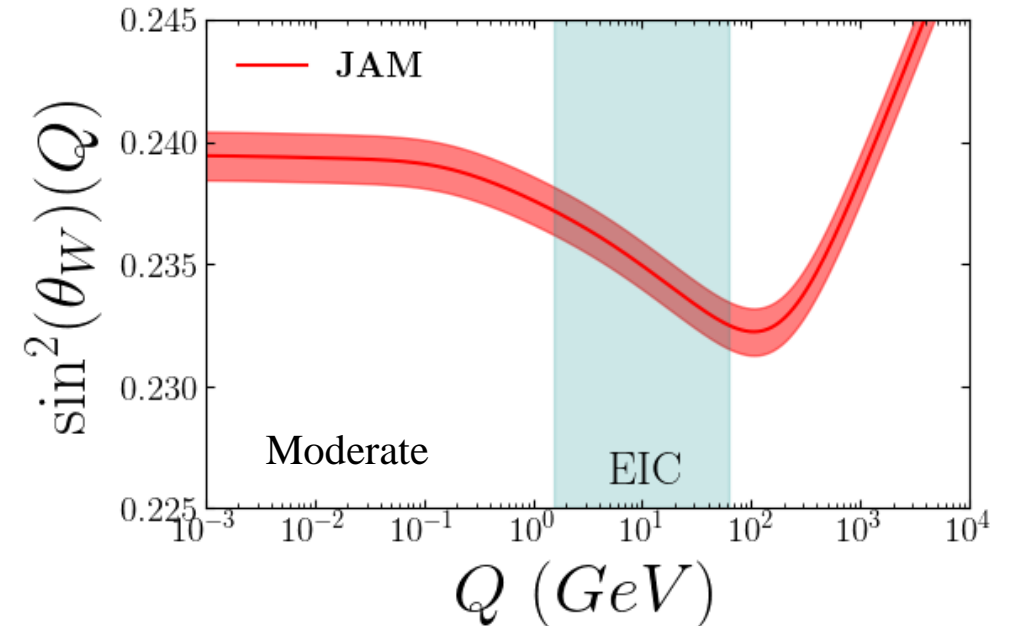
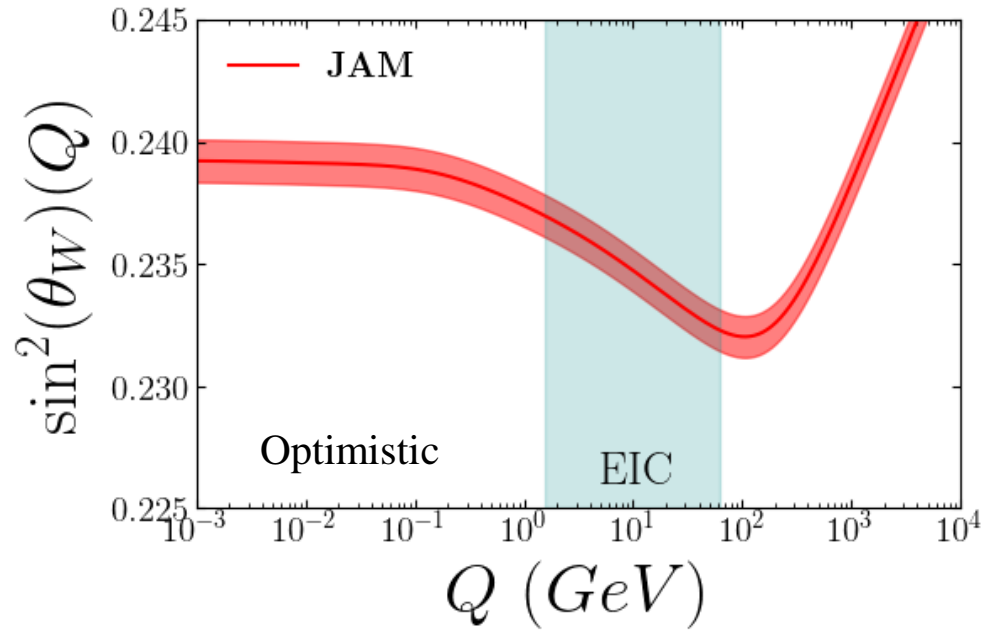
(Pessimistic goes here)



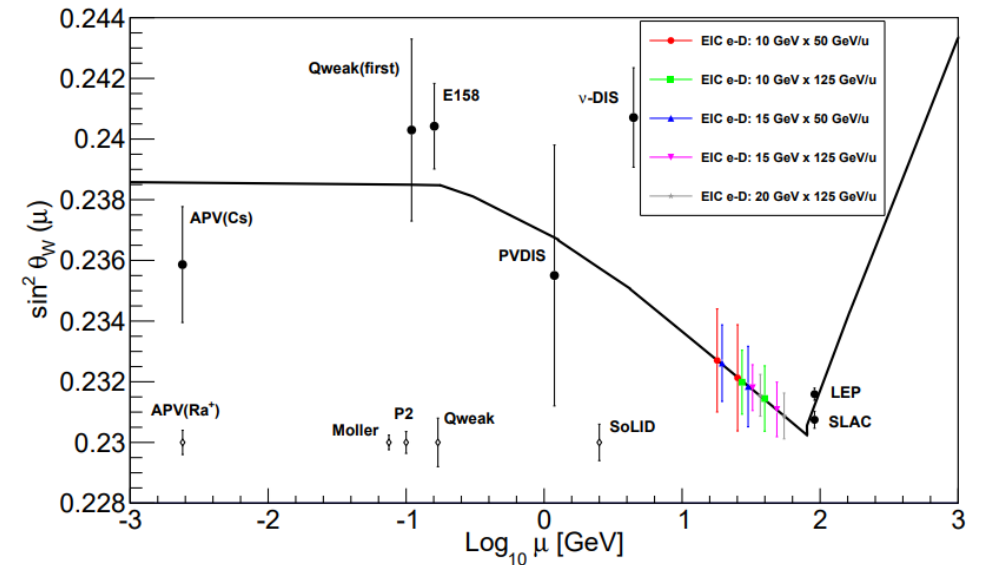
Strange Standard Deviation



Weak Mixing Angle



(Pessimistic goes here)



(Y.X. Zhao, A. Deshpande, J. Huang, K. S. Kumar, S. Riordan, Eur. Phys. J. A (2017) 53: 55)

Hadron

PVDIS

Summary

Data: Hadron PVDIS, proton target only

Luminosity: 100 fb⁻¹

Polarization: $P = 0.7$, $\delta P = 0.007$

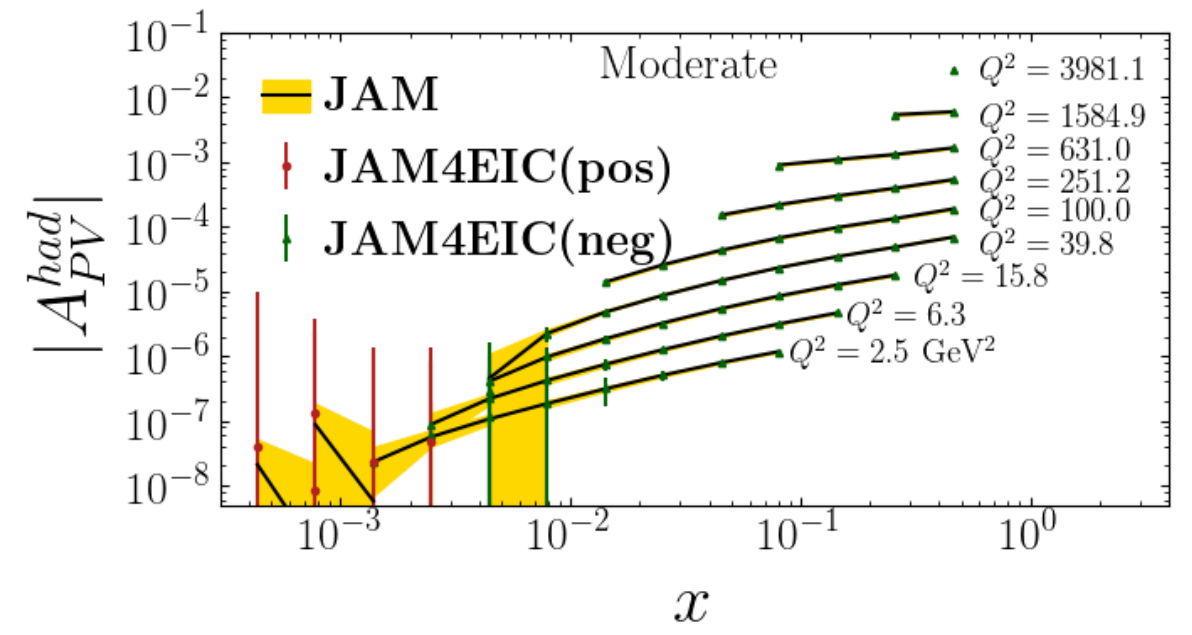
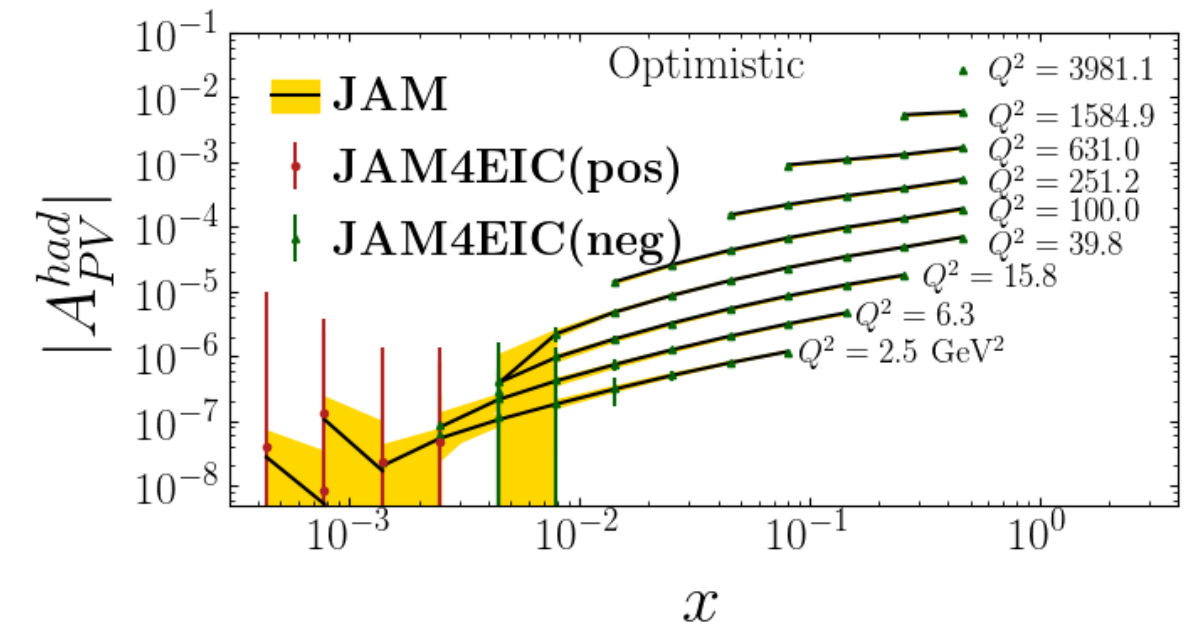
Further systematic errors:

Optimistic: Flat 1%

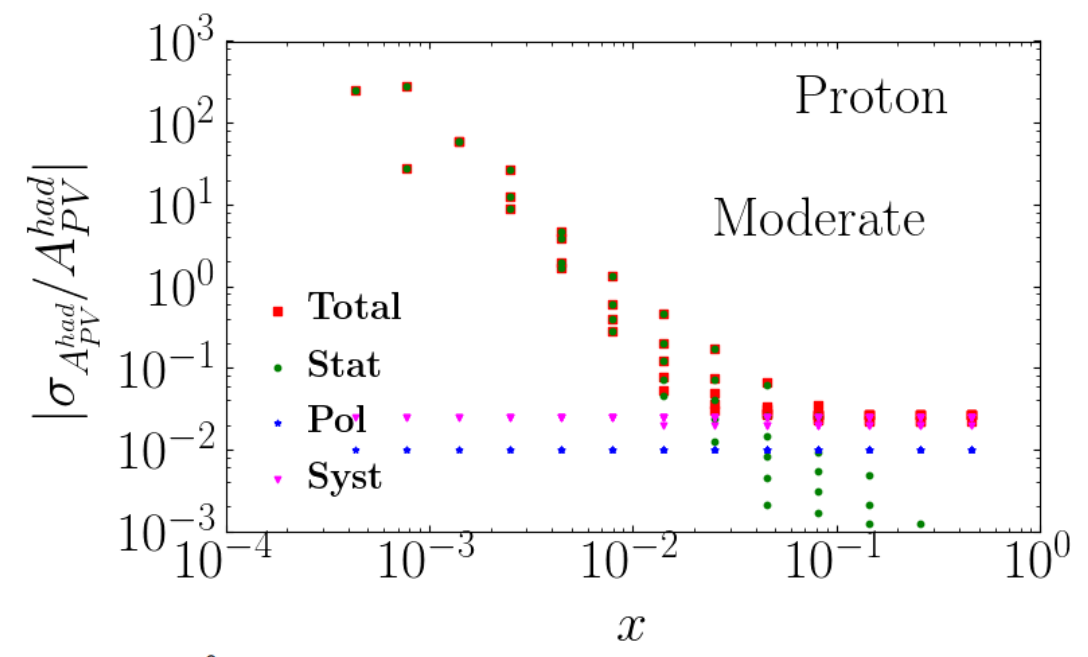
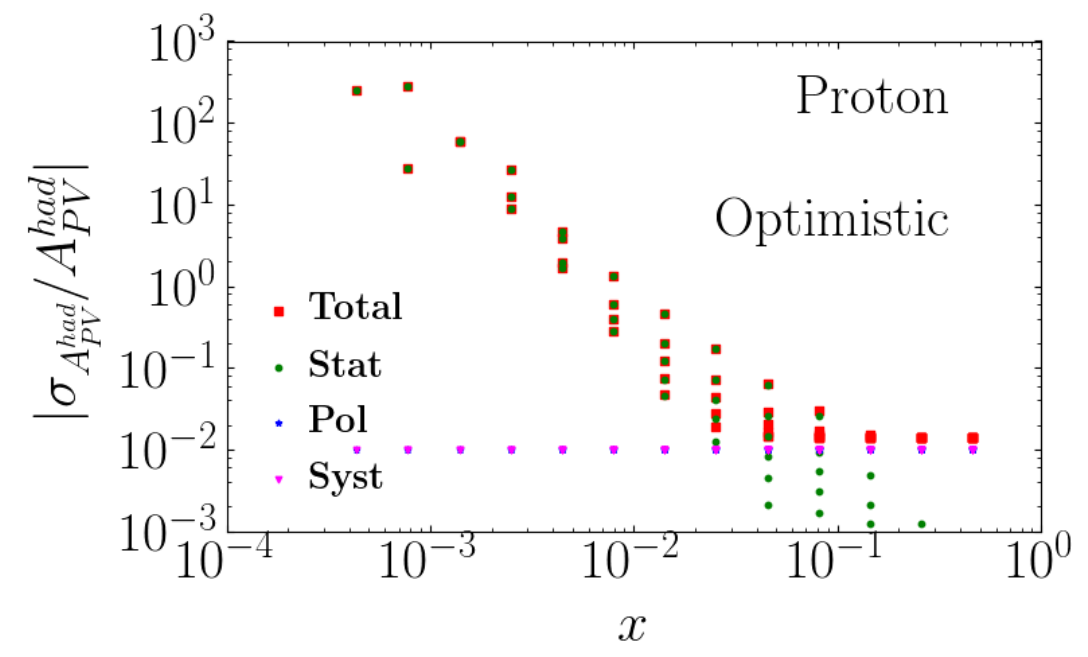
Moderate: 2% for $y < 0.01$, 2.5% for $y > 0.01$ (In progress)

Pessimistic: ???

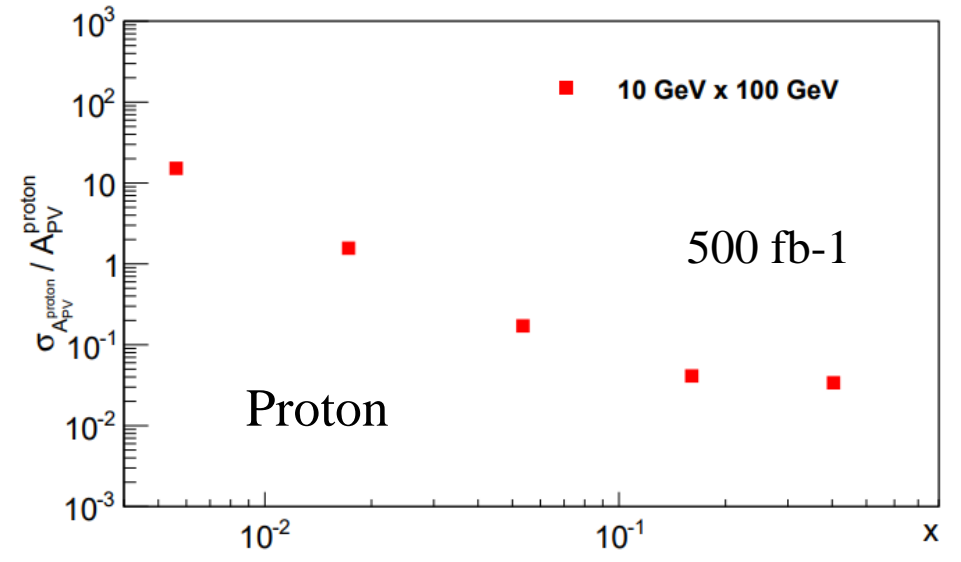
Asymmetry



Errors

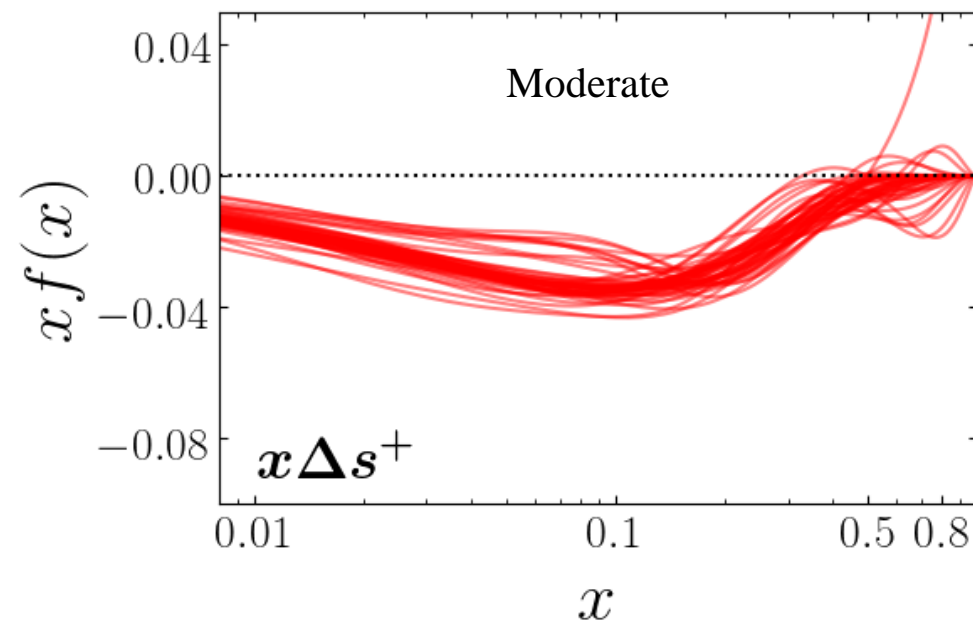
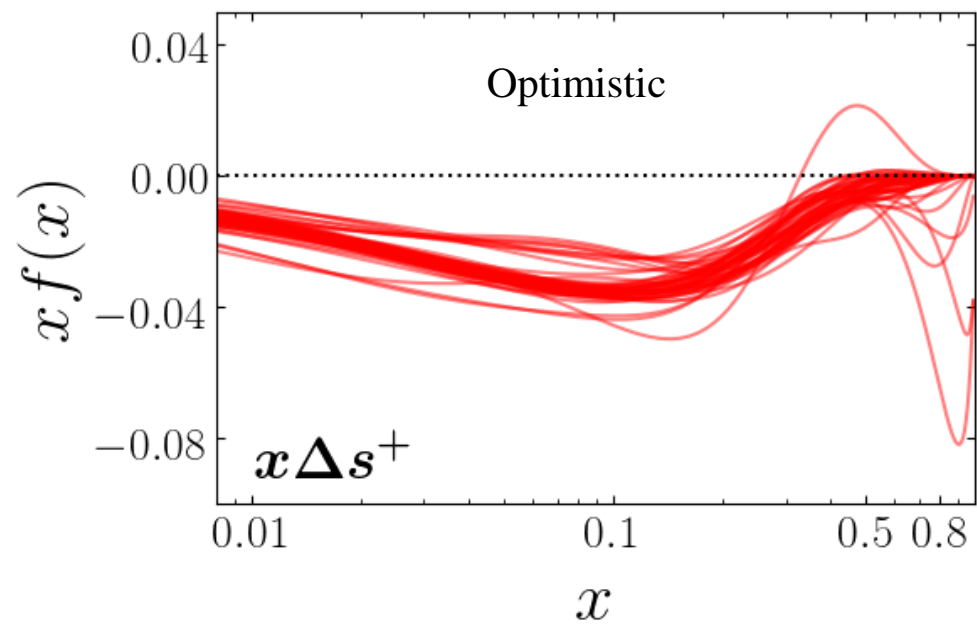


(Pessimistic goes here)

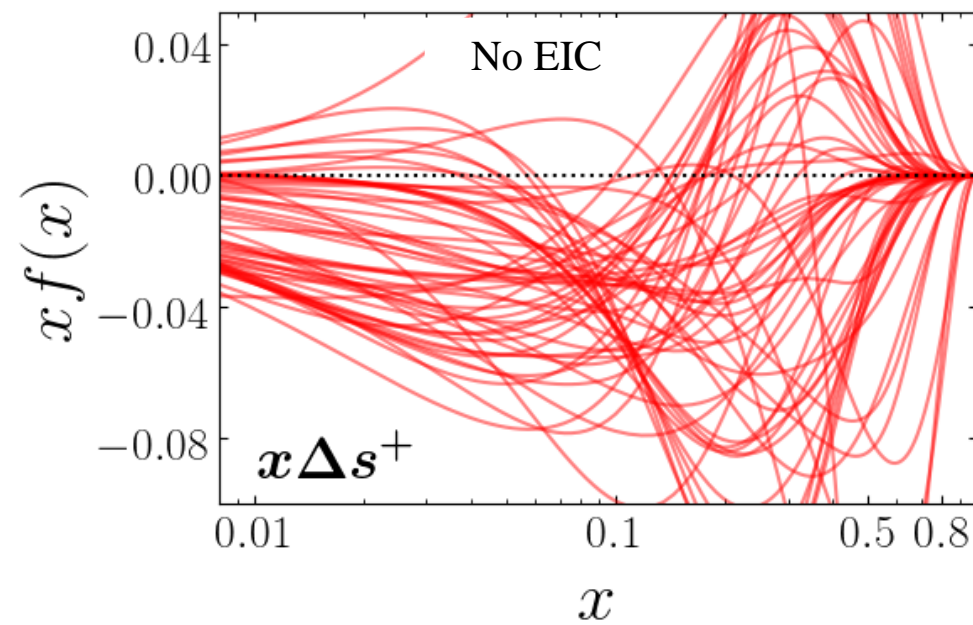


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Strange ($Q^2 = 10$)



(Pessimistic goes here)



Strange Standard Deviation ($Q^2 = 10$)

