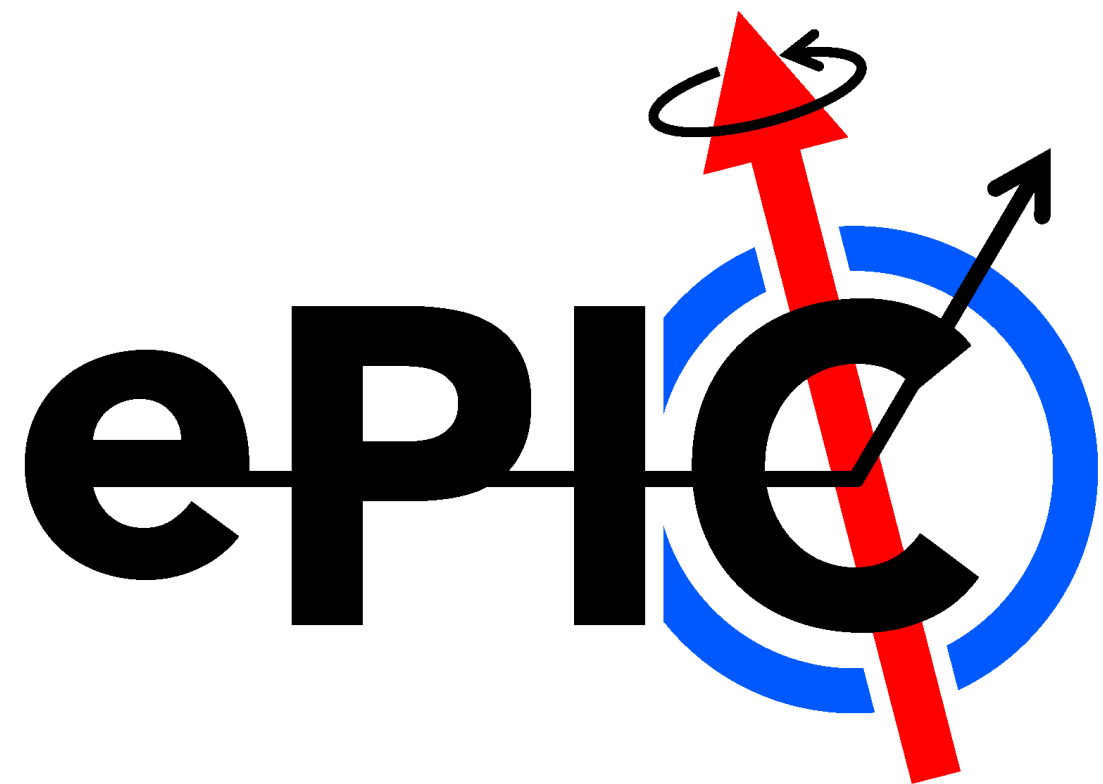# Inclusive physics pre-TDR update

Tyler Kutz

ePIC analysis meeting
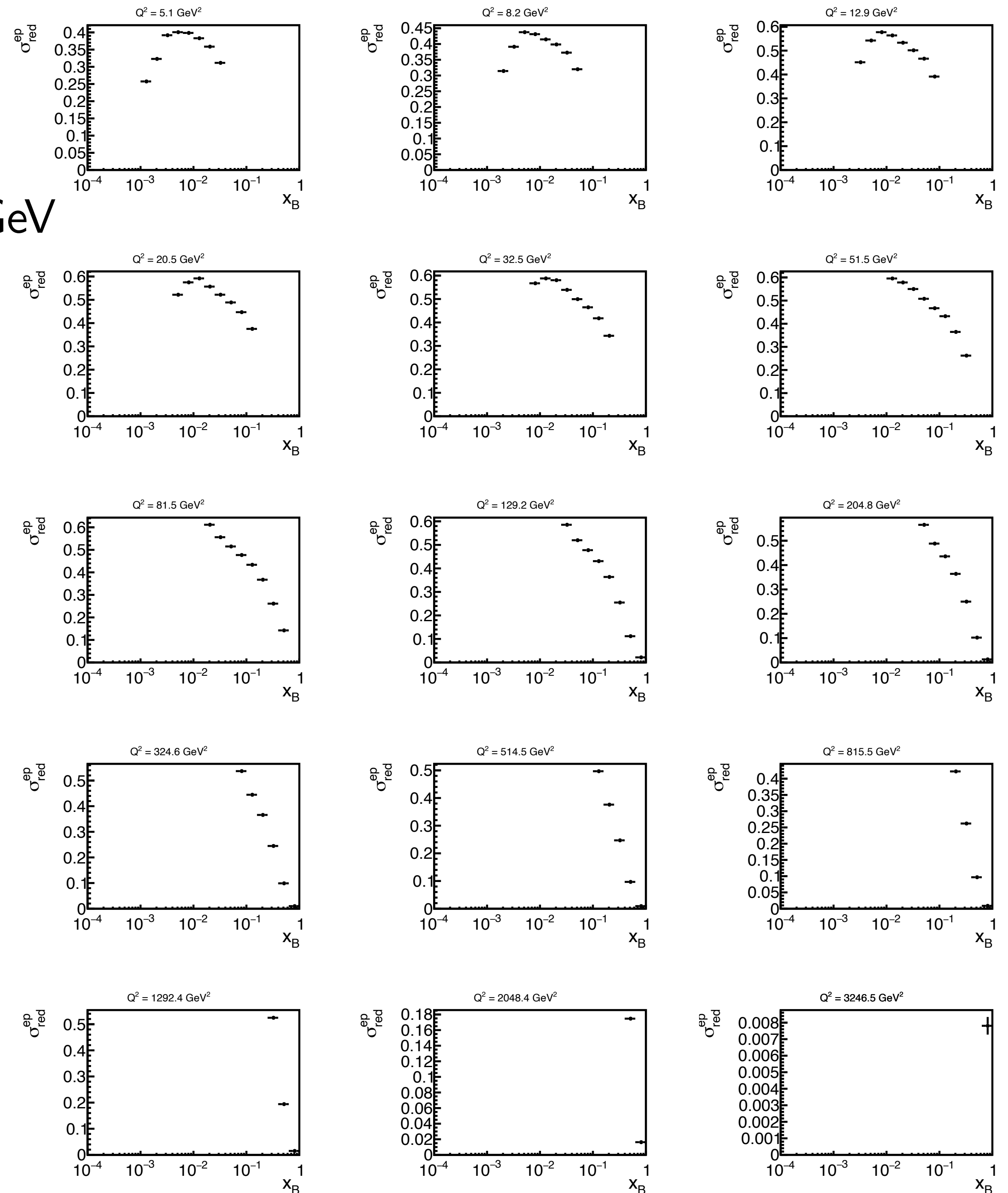
September 27, 2024

Inclusive NC reduced cross sections

ePIC
10x100 GeV
24.06.0
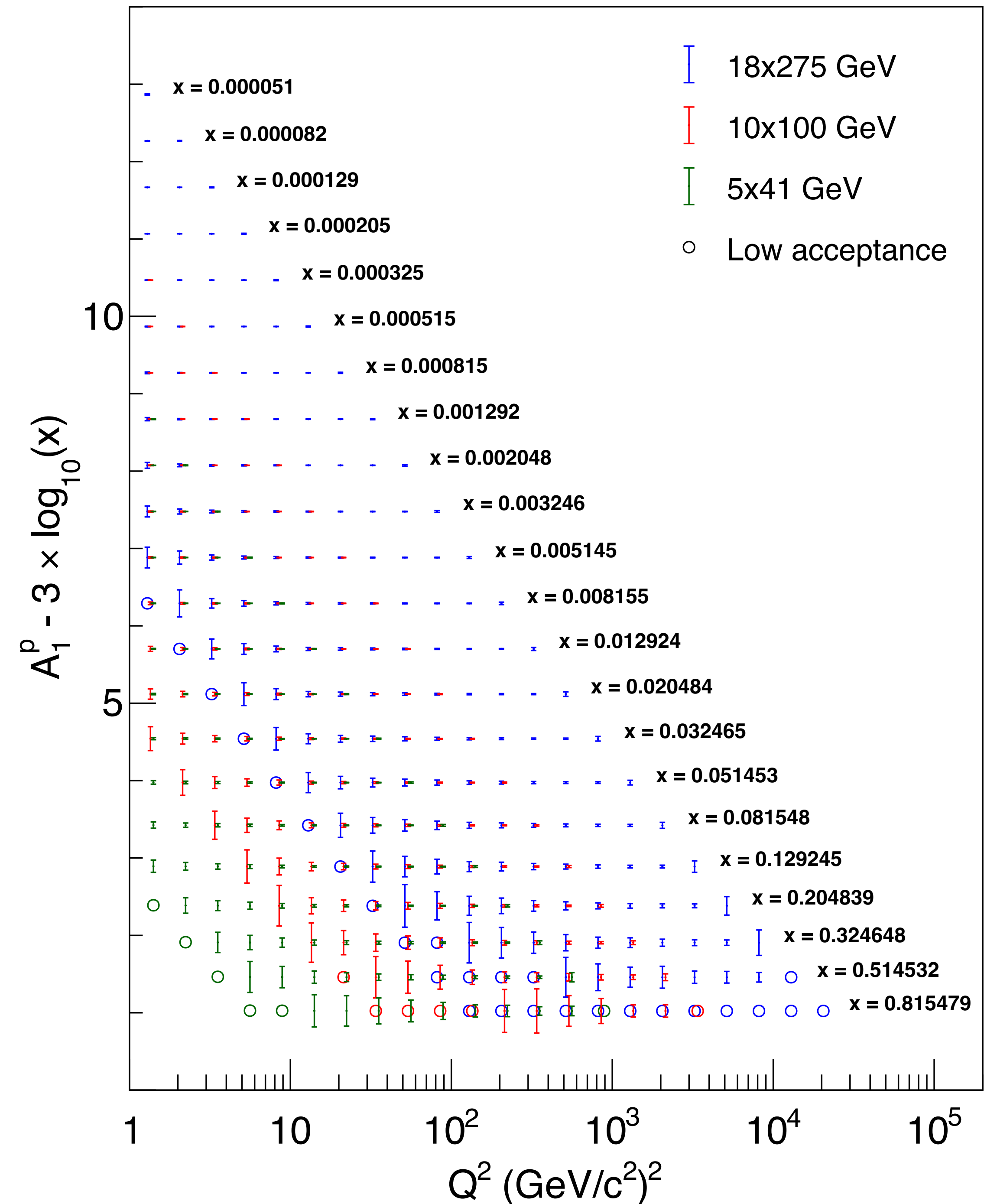
Changes before final draft:

- Update to campaign 24.10.X

- Improve figure aesthetic (merged axes, Q^2 label inside frame, etc.)
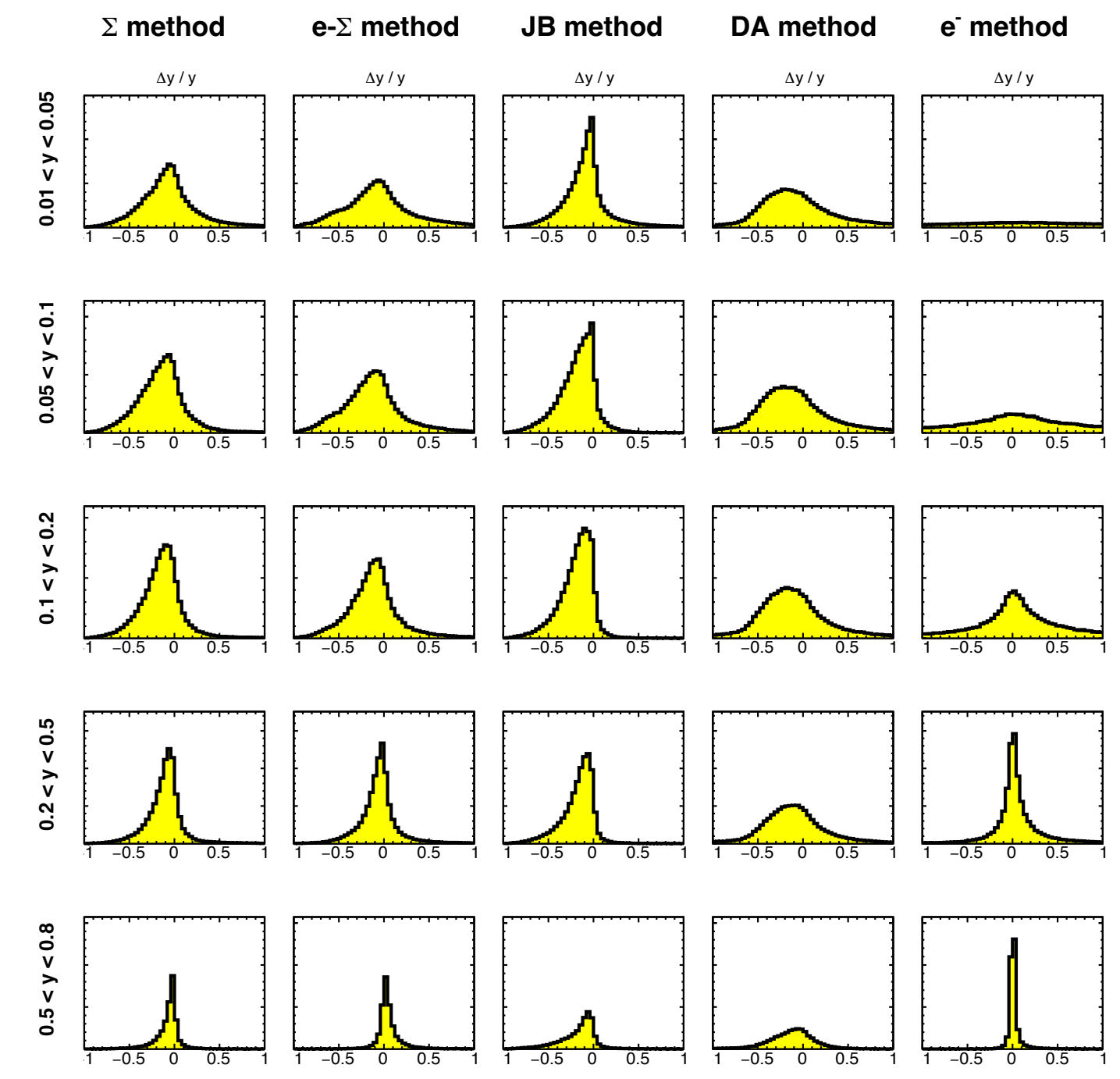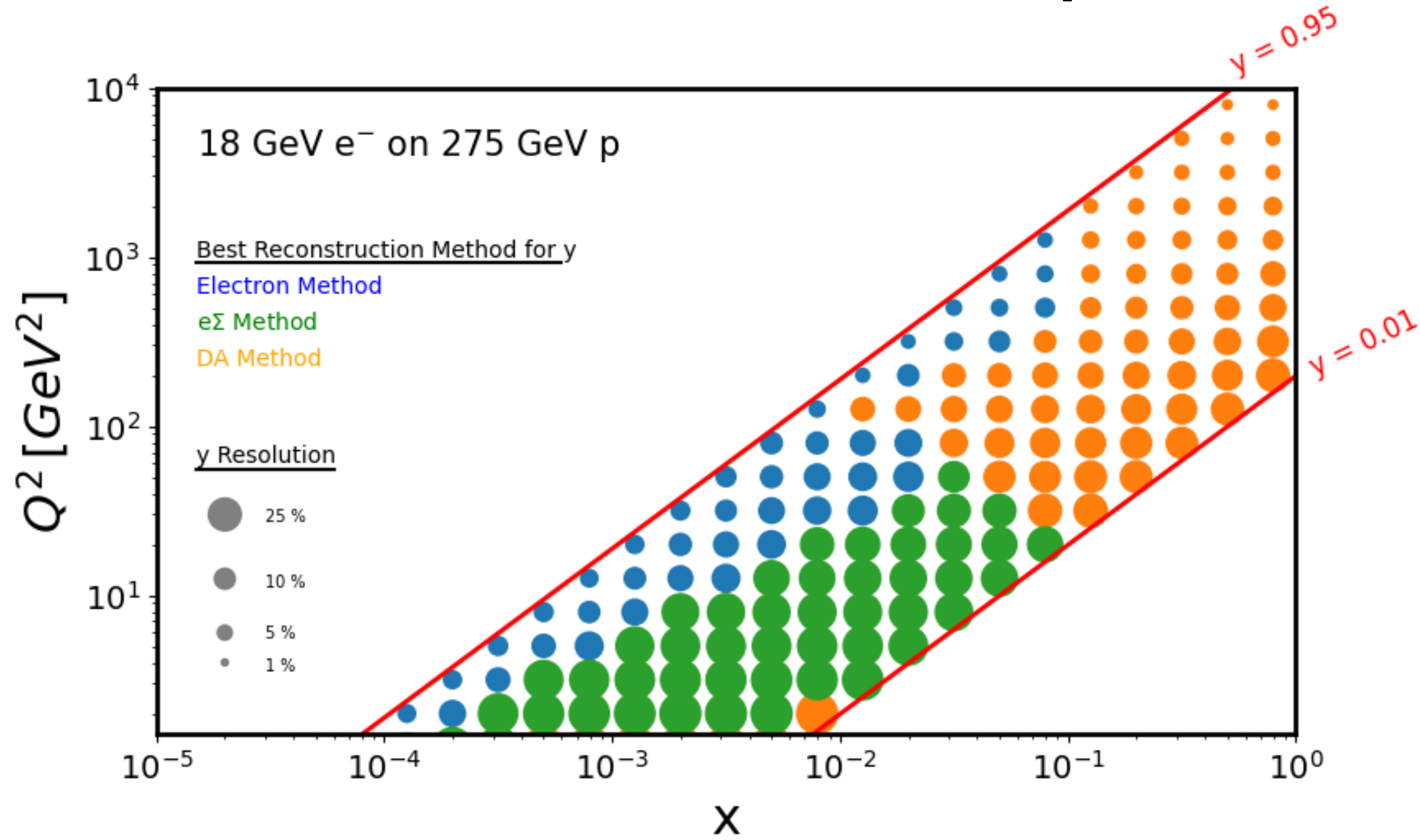
- Debug outlier points

Double-spin asymmetry

Changes before final draft:

- Update to campaign 24.10.X

- Apply kinematic cuts and use preliminary eID

- Possible changes based on previous input:

  - Use multiplicative (vs. additive) x shift

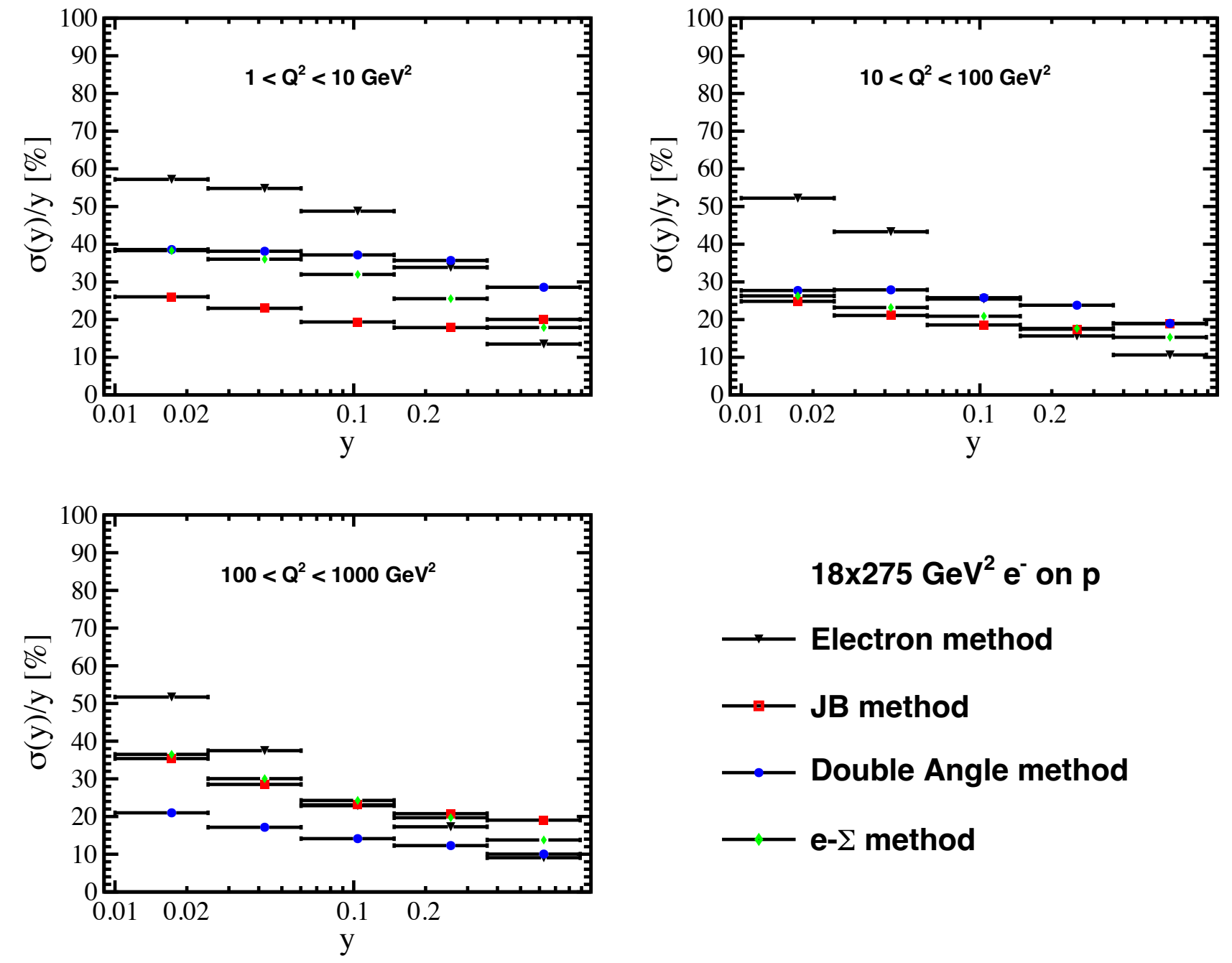 - Make (x, Q^2) precision map instead of plotting A_1^p

Kinematic reconstruction performance

Changes before final draft:

- Update to campaign 24.10.X

- Possibly change binning (depending on which plot[s] are used)

- Use ECAL?

Overleaf status

- Nucleon mass

  - In-progress: reduced cross section plots and accompanying text

- Nucleon spin

  - In-progress: A_1^p plot and accompanying text

- Best place for kinematic reconstruction performance?

- Nuclear modification of PDFs?