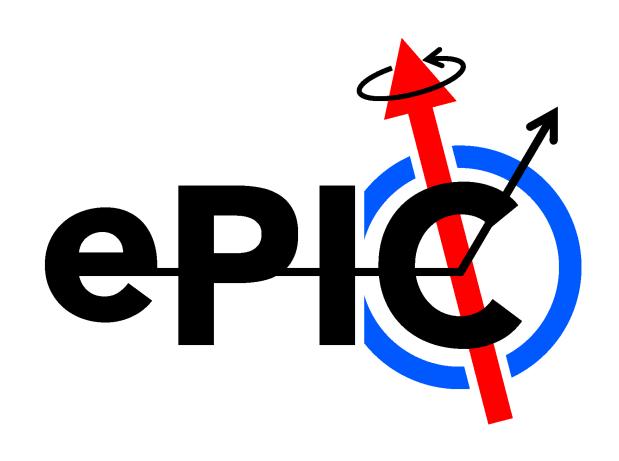
Inclusive PWG update

Tyler Kutz

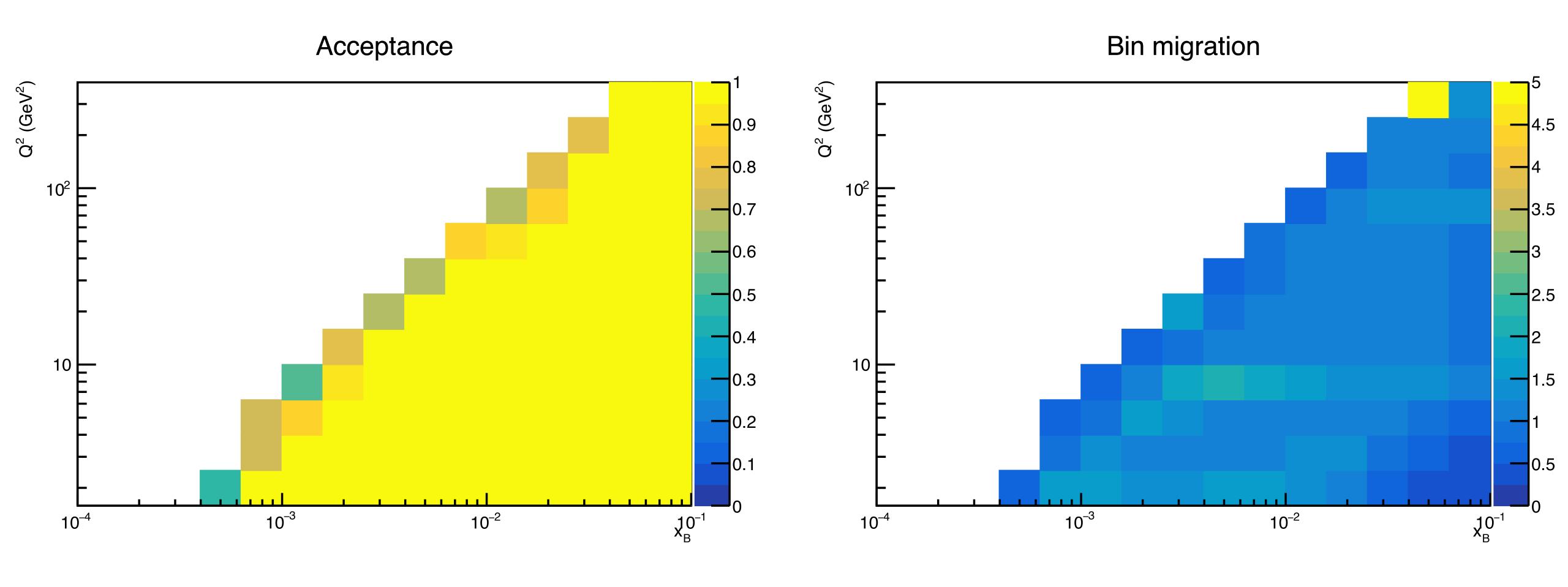
ePIC analysis meeting January 26, 2024



Near term goals

- Electron ID remains high priority
- In parallel, we are starting to produce physics plots
 - Neutral-current reduced cross sections
 - Double-spin asymmetries
 - Initially using electron reconstruction, include other methods ASAP

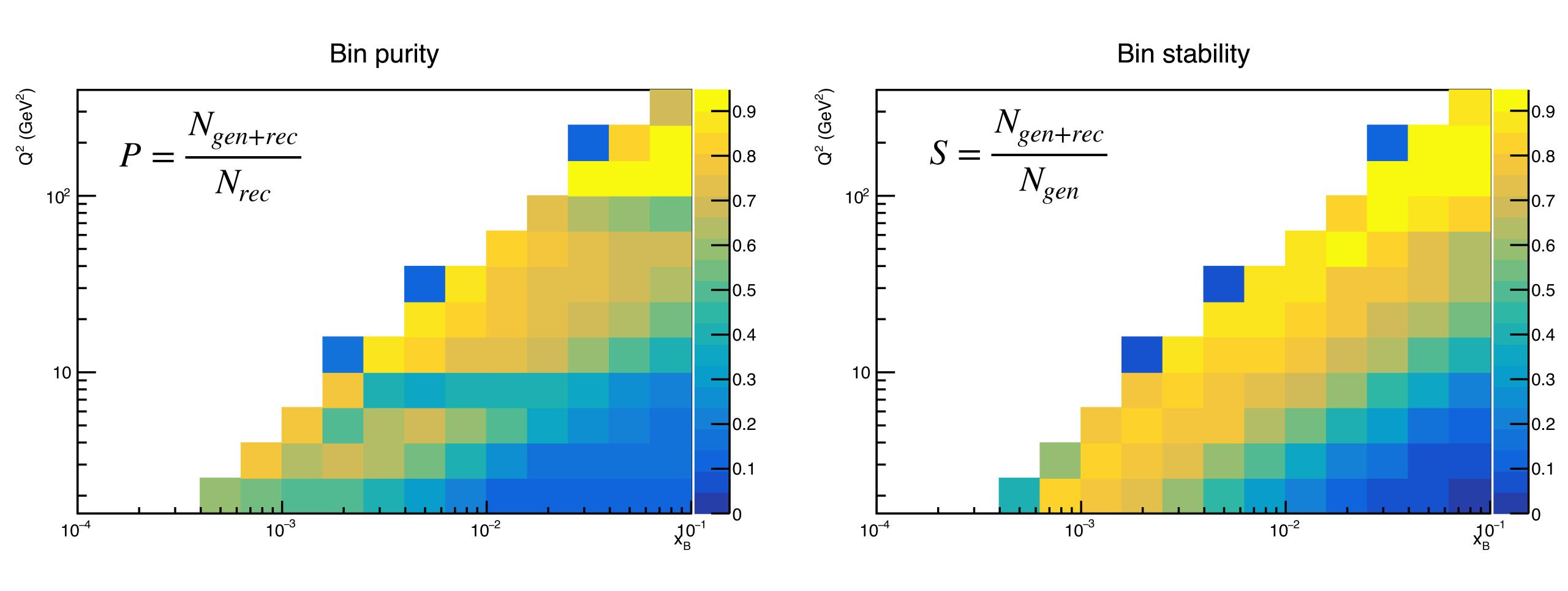
Acceptance and bin migration corrections



$$C_{acc} = \frac{N_{rec}(x_{gen}, Q_{gen}^2)}{N_{gen}(x_{gen}, Q_{gen}^2)}$$

$$C_{bin} = \frac{N_{rec}(x_{rec}, Q_{rec}^2)}{N_{rec}(x_{gen}, Q_{gen}^2)}$$

Bin purity and stability



HERA requirement P, S > 30% (values typically >60%)

Task list

Debug track projections (Tyler, Daniel)

Electron ID

- Track/cluster matching (Daniel, Tyler?)
- Tuning cuts (Daniel, Tyler?)
- Acceptance, bin migration correction (Tyler)

Physics

- Binned resolution studies (Tyler, Anjelo?)
- Projected statistics for cross section, asymmetry bins (Anjelo?)
- Weight reconstructed events by model A_1^p for central value (Anjelo?)
- Systematics

Next regularly scheduled Inclusive PWG meeting superseded by TDR workshop on February 5, 2024