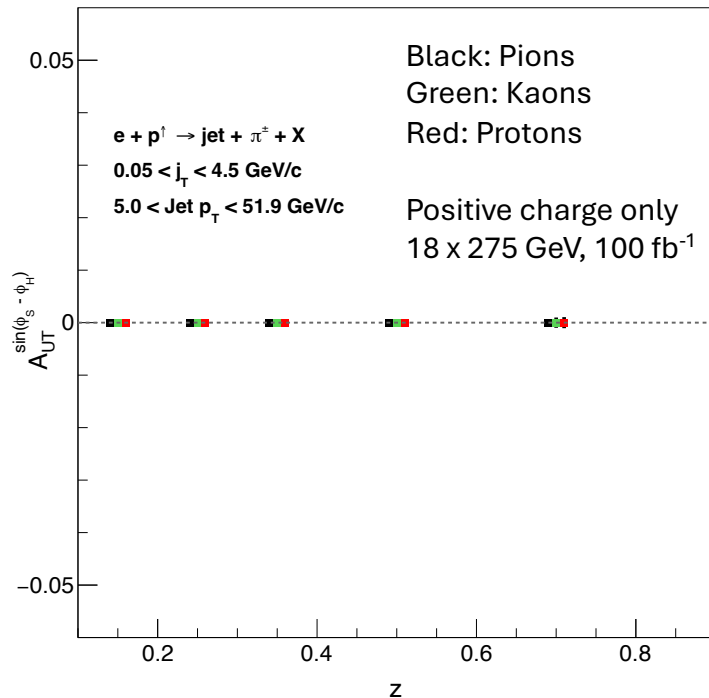


Hadron-in-Jet Collins Analysis

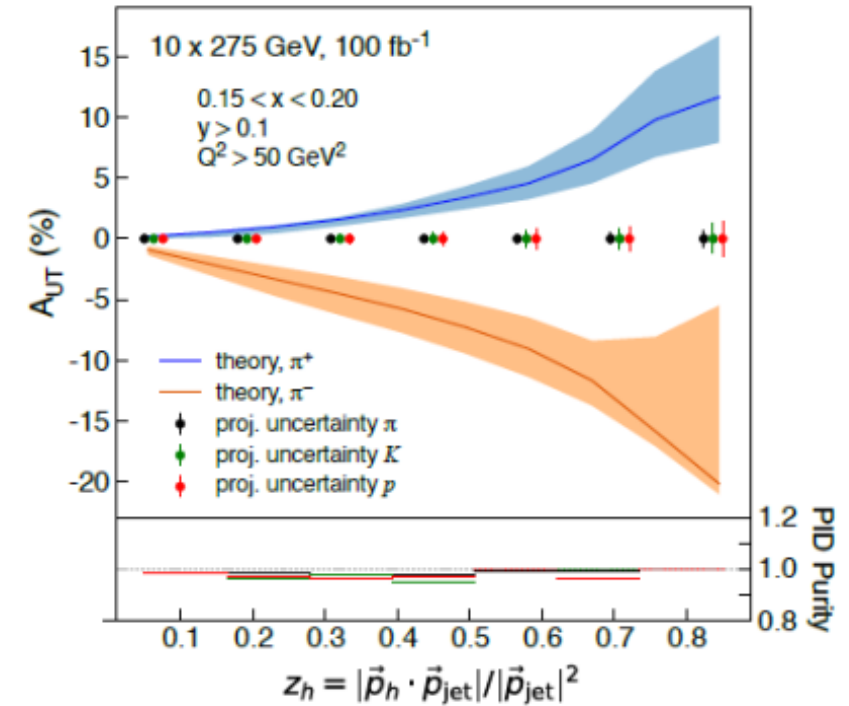
- Collins effect connects initial proton spin to final state azimuthal distribution of hadrons in a jet (pions, kaons, protons)

$$d\sigma \approx F_{UU} \left\{ 1 + A_{UT}^{\sin(\phi_S - \phi_H)} \sin(\phi_S - \phi_H) \right\}$$

- Current status of the asymmetry plot:



Target Plot:



To Do:

- Update original electron finding method to ensure proper q_T imbalance cut
- Update binning
- Add theory curves
- Make the plot “pretty”