

Pi-Delta Asymmetry Update

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KaonLT Experiment, Jefferson Lab Hall C

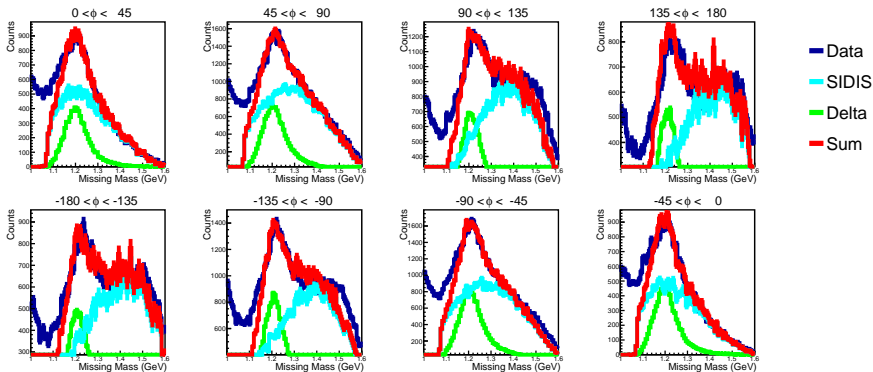


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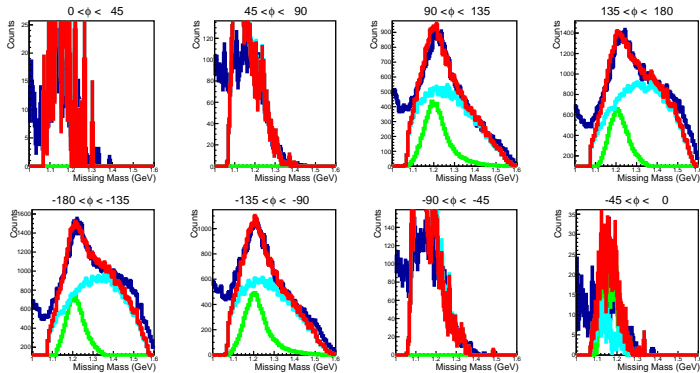


- Added weighting to SIMC
- Fixed conversion of ϕ from data ($-\pi < \phi < \pi$) to SIMC ($0 < \phi < 2\pi$)
- Still not doing charge normalization / dummy subtraction
 - Dummy may change shape slightly
 - Normalization will **not** change **relative** yield between helicities

Missing Mass $Q^2 = 2.115$, Center

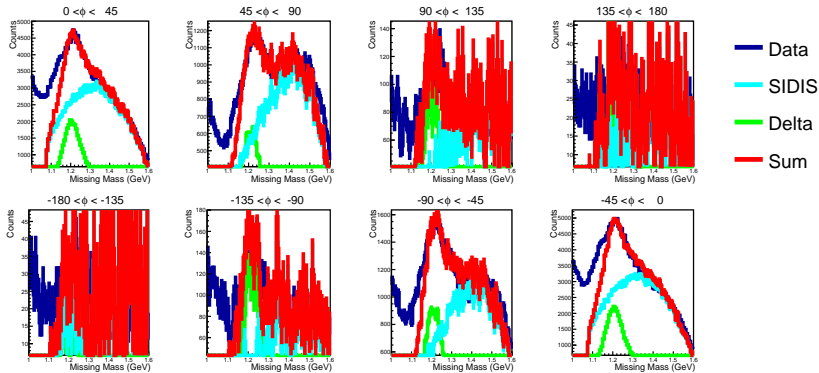


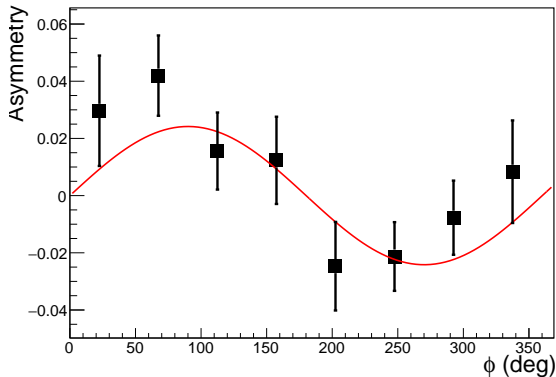
Missing Mass $Q^2 = 2.115$, Left



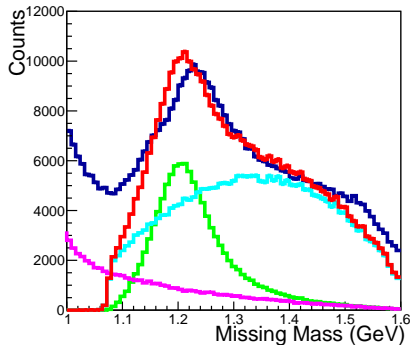
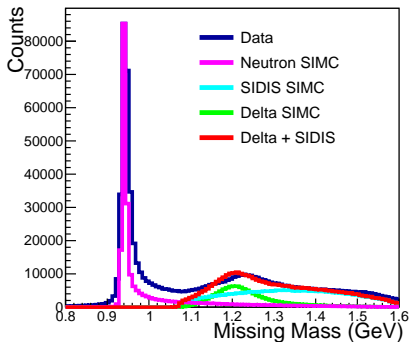
- Data
- SIDIS
- Delta
- Sum

Missing Mass $Q^2 = 2.115$, Right





- Stat errors should decrease when combining left, right, and center
- Expect large systematic error from yield extraction



→ Neutron radiative tail non-negligible in delta region



- Finish shape study: dummy subtraction, neutron tail
- Quantify systematic error from shape study
- Combine asymmetry from left, right, center
- Repeat for other kinematics
- Other systematics

This work is **on hold** while I finish the πn asymmetry paper and Ali is away.