

BigBite Analysis:

Asymmetries in BigBite and LHRS Bins, PolRad Update

Matthew Posik

¹Temple University
Philadelphia, PA 19122

08/17/2011

Outline

1 LHRS N2 Dilution Factor

2 PoIRad

2 What's Next

LHRS N2 Dilution Factor

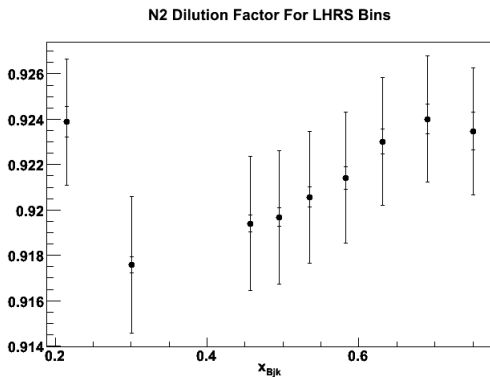


Figure: Dilution factor computed in LHRS bins.

Physics Asymmetries in LHRS Bins

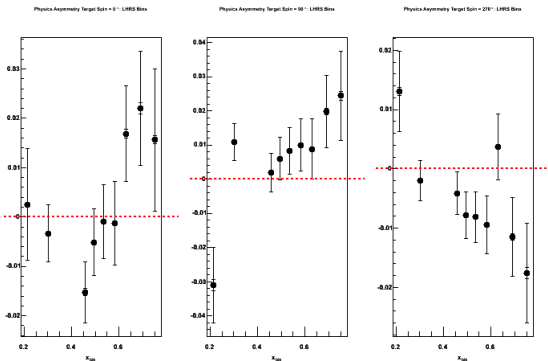


Figure: Physics asymmetry in LHRS bins.

Long/Trans Asymmetries in LHRS Bins

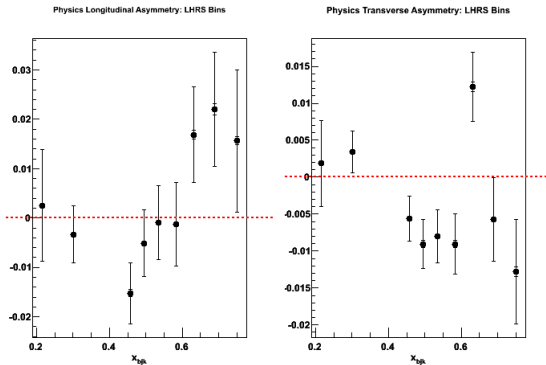
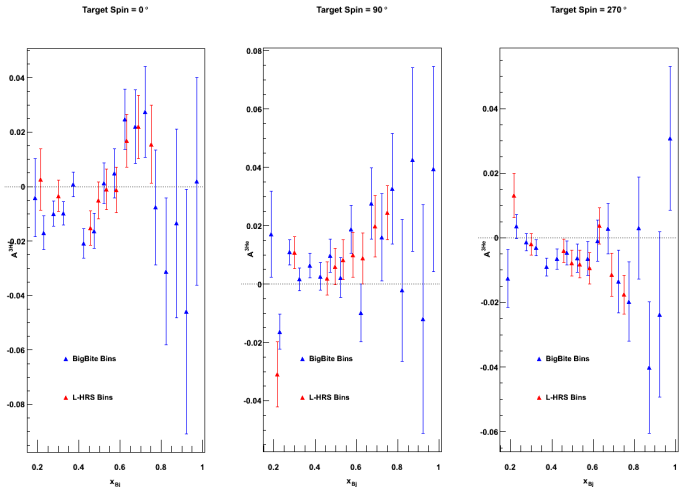


Figure: Longitudinal and transverse asymmetries in LHRS bins.

Comparison of BigBite and LHRS Binned Asymmetries



PolRad Update

- 3 examples to test PolRad code that are explained in the PolRad paper
- 1st example, code crashed
- Traced it back to a problem with the iteration procedure sub-routine (looking into this)
- 2nd example does not use the iteration flag and reproduces the correct results
- 3rd example has to do with SIDIS, so did not look at

What's Next...

- Continue looking at PoIRad
- Nearly finished with 5-pass wave plate and target configuration
- Assemble a list of known runs that are out of sync
- Take a run by run look at 4-pass syncs