

# Summary

$A_{LU}^{\sin \varphi}$  was measured simultaneously for all three pion channels with good statistics and kinematic coverage. This measurement of  $A_{LU}^{\sin \varphi}$  improves our understanding of quark-gluon-quark correlations in the proton.

These are the first  $\pi^- A_{LU}^{\sin \varphi}$  published by CLAS, and the first to measure all three pion channels from a single dataset. The measurement provides a significant improvement on the HERMES statistics.

New SIDIS experiments at 12 GeV will provide large increase in kinematic coverage and statistics by running for 2000 beam hours to perform measurements of semi-inclusive pion electroproduction (E12-06-112).

A paper describing these results is published in Phys. Rev. D 89, 072011 (2014).