2025 CAP Congress / Congrès de l'ACP 2025



Contribution ID: 82 Type: Poster not-in-competition (Graduate Student) / Affiche non-compétitive (Étudiant(e) du 2e ou 3e cycle)

(POS-24) From Spin to Structure: Beam Spin Asymmetry and the Strong Force

Tuesday 10 June 2025 18:00 (2 minutes)

The KaonLT experiment probes hadron structure by measuring deep exclusive meson production reactions at Jefferson Lab. A set of high momentum, high resolution spectrometers in Hall C allow for precision measurements from which form factors and other observables can be extracted. One possible measurement is the beam spin asymmetry, from which is extracted a polarized interference cross-section ratio σ_{LT^*}/σ_0 . In this work, σ_{LT^*}/σ_0 was extracted from exclusive pion production, and results are compared to previous data and predictions from leading QCD models. This poster will present final results from this analysis, and discuss what the results imply about the structure of the proton.

Keyword-1

QCD

Keyword-2

Hadrons

Keyword-3

Author: POSTUMA, Alicia (University of Regina)

Presenter: POSTUMA, Alicia (University of Regina)

Session Classification: DNP Poster Session & Student Poster Competition | Session d'affiches DPN

et concours d'affiches étudiantes (2)

Track Classification: Technical Sessions / Sessions techniques: Nuclear Physics / Physique nucléaire

(DNP-DPN)