Deep Processes Working Group Report

CLAS Collaboration Meeting
Jefferson Lab, 14th November 2019

Ad Hoc Reviews

Analysis	Data	Lead Author	In progress
Extraction of $A_{LU}^{\sin\phi}$ moments from hard exclusive π^+ off the unpolarized hydrogen target in a wide range of kinematics	**e1f**	**S. Diehl**	1nd round done on Aug 19
Exploring the structure of the proton via semi-inclusive pion electro-production	**e1f**	**N. Harrison** **K. Joo**	2nd round done on Jan 19

Analysis Reviews

Analysis	Data	Author	In progress
First Observations of Beam Spin Asymmetries for K+	**e1f**	**D. Riser**	2nd round done on Jul 18
Measurement of the spin structure g1p of the proton and its momentum at low Q^2	**eg4**	**X. Zheng**	2nd round done on Nov 5
24Di-hadron beam spin asymmetry in SIDIS electro production	**eg1-dvcs**	**M. Mirazita**	Analysis under revision
Beam asymmetries in exclusive π^+ electro production for W> 1.7 GeV from e16	**e16**	**P. Bosted** **K. Park**	Extended scope
Semi-inclusive pion production	**e16**	**M. Osipenko**	Working on a better alignment

Analysis Reviews

Analysis	Data	Author	In progress
Deep-virtual production of the ρ^+ meson off the proton	**e1-dvcs**	**A. Fradi**	Ahmed willing to continue
Exclusive electro-production of the f0(980) and f2(1270) on the proton with CLAS	**e1f**	**B. Garillon** **S. Niccolai**	Brice busy with other project
Time-like Compton scattering	**g12**	**I. Abayrak**	Last record 2015

CAA Reviews

Analysis	Data	Author	In progress
Observation of transverse polarization of Lambda hyperons in the current fragmentation from unpolarized targets	**RGA**	**A. Vossen** **C. Dilks**	2nd round done on Sep 19
Boer-Mulders effect and helicity dependent fragmentation functions in hadron pair production off unpolarized targets	**RGA**	**A. Vossen** **C. Dilks**	1st round done on Oct 18

DNP 2019

T. Hayward	Charged di-hadron beam-spin asymmetries from CLAS12
S. Diehl	SIDIS Single Pion Beam Spin Asymmetry Measurements with CLAS12
C. Dilks	Dihadron Beam Spin Assymmetries and Helicity-Dependent Fragmentation in SIDIS at CLAS12
H. Avakian	Hadronization of quarks and correlated di-hadron production in DIS
G. Christiaens	Proton Deeply Virtual Compton Scattering at 10.6 GeV with CLAS12 at Jefferson Lab
A. Kim	Deeply Virtual Exclusive pi0 Electro-production Measurements with CLAS12 at Jefferson Lab
B. Clary	Exclusive Phi Meson Electro-production for CLAS12
J. Artem Tan	Deeply Virtual Compton Scattering with CLAS12 at Multi-Energy Polarized Electron Beam
A. Biselli	Coherent Deuteron Deeply Virtual Compton Scattering with CLAS12
K. Price	Deeply Virtual Compton Scattering on the Neutron
C. Fogler	Investigating the Origin of the EMC Effect
S. Diehl	TDA Measurements based on hard exclusive pion electroproduction with CLAS at JLAB
M. Hattaway	3D Partonic Structure of Nucleon and Light Nuclei
D. Payette	Tracking Low-momentum Protons in a Radial Time Projection Chamber

CLAS Speakers Committee

What do we do?

Our main role is to supervise and promote an accurate and broad dissemination of results to the scientific community by talks from members of the CLAS Collaboration.

What do **you** need to do?

- All Invited talks need to be Approved by the CSC committee
- CLAS Members need to Notify CSC for Contributed talks, for Invited seminars, or Posters
- For General talks in which 50% of the slides or less are CLAS related members need to Notify CSC
- All Proceedings need to be submitted to CSC for review and approval at least 1 week before the submission deadline

The notification and approval requests are done using the SHIFTBOT Interface

For any issues or clarifications you can contact CSC directly: csc@jlab.org

More information can be found on our wiki page

DPWG Meeting, 14th November 2019

DPWG session (8:30 – 12:30):

Hard Exclusive observables

Reconstruction and Analysis Tools

SIDIS observables

Common WG session (14:30 – 18:00):

Selected topics

Common analysis studies and tools