

Deep Processes Working Group Report

CLAS Collaboration Meeting
Jefferson Lab, 12th July 2018

Publications:

CLAS 2017-06

Semi-inclusive π^0 target and beam-target asymmetries from 6 GeV electron scattering with CLAS

S. Jawalkar, published on Phys. Lett. B

CLAS 2017-12

Hard exclusive pion electro-production at backward angles with CLAS,

K. Park, published on Phys. Rev. Lett.

CLAS 2017-09

Measurement of Unpolarized Cross Sections and Polarized Cross Section Differences for Deeply Virtual Compton Scattering (DVCS) on the proton at the Jefferson Laboratory with CLAS, at $0.1 < x_B < 0.58$, $1.0 < Q^2 < 4.8 \text{ GeV}^2$, and $0.09 < -t < 2.0 \text{ GeV}^2$,

H. Saylor, submitted to Phys. Rev. C

Ad Hoc Review

Analysis	Data	Lead Author	In progress
Beam spin asymmetries of $ep \rightarrow ep\eta$ in the deep inelastic regime	e1f	B. Zhao, A. Kim	Done Sep 17

Analysis Review

Analysis	Data	Author	In progress
Exploring the structure of the proton via semi-inclusive pion electroproduction	e1f	N. Harrison K. Joo	Done Feb 18
Beam asymmetries in exclusive π^+ electro production for $W > 1.7$ GeV from e16	e16	P. Bosted	Ongoing

Analysis Review

Analysis	Data	Author	In progress
Exclusive electroproduction of the $f_0(980)$ and $f_2(1270)$ on the proton with CLAS	e1f	B. Garillon S. Niccolai	Brice busy with other project
Di-hadron beam spin asymmetry in SIDIS electro production	eg1-dvcs	S. Pisano	Silvia busy with other project
Deep-virtual production of the ρ^+ meson off the proton	e1-dvcs	A. Fradi	Ahmed busy with other projects. Slow progress
Semi-inclusive pion production	e16	M. Osipenko	Working on a better alignment
Time-like Compton scattering	g12	I. Abayrak	Last record 2015

DVMP at CLAS - Research Meeting

Wednesday 6/13, Rm CC F226

Morning: 9:00 AM

- | Status of G-K theoretical approach *pseudoscalar* and *vector* mesons.
P. Kroll
- Prognosis for incorporating GK theoretical framework into PARTON.
Paweł Sznajder
- Status and physics for π^0 , and η at 6 and 11 GeV .
Valery Kubarovsky, Stefan Diehl, et al.
- .
- $k-\Lambda$ experiment and physics at 11 GeV.
Kyungseon Joo, Stefan Diehl, et al.

- Afternoon: 1:30 PM

- Status and physics of ϕ and ρ at 6 GeV and 11 GeV.
F-X Girod, Stefan Diehl, et al.
- BSA from exclusive π^0 production off ^4He .
C.R. Ji
- Summary of program and JLab theoretical issues.
Christian Weiss

DPWG Representatives at CSC

Carlos Munoz Camacho confirmed as representative

Aram Movsisyan elected as Alternate Member

DPWG Meeting, 12th July 2018

CLAS12 studies and plans (morning)

Procedures and extraction methods (open discussion)

Common WG session (14:30 – 18:00):

- 1st experiment analyses for DNP