

DPWG Business

Publications:

CLAS 2015-07

Target and Double Spin Asymmetries of Deeply Virtual π^0 Production with a Longitudinally Polarized Proton Target and CLAS, A. Kim et al., Phys. Lett. B. 768 (2017) 168.

CLAS 2016-02

Measurement of two-photon exchange effect by comparing elastic $e^\pm p$ cross sections, D. Rimal, Phys. Rev. C 95, (2017) 065201.

Ad Hoc Review

Analysis	Data	Lead Author	In progress
Determination of the proton spin structure functions for $0.05 < Q^2 < 5.0 \text{ GeV}^2$ using CLAS	eg1	R. Fersch	Done Dec 16. Author check.
Semi-inclusive π^0 target and beam-target asymmetries from 6 GeV electron scattering with CLAS	eg1-dvcs	S. Jawalker K. Griffioen	Done Near author check
Beam spin asymmetries of $ep \rightarrow ep\eta$ in the deep inelastic regime	e1f	A. Kim	Done Sep 15. Working on paper.
Hard exclusive backward-angled single charged pion electronproduction from the proton at CLAS	e16	K. Park	Done Feb 17
DVCS cross section from e1-dvcs2 experiment	e1-dvcs2	N. Saylor	Done Feb 17

Analysis Review

Analysis	Data	Author	In progress
Beam asymmetries in exclusive π^+ electro production for $W > 1.7$ GeV from e16	e16	P. Bosted	Ongoing
Exploring the srtructure of the proton via semi-inclusive pion electroproduction	e1f	N. Harrison K. Joo	Ongoing
Measurement of the spin structure g_1^d of the deuteron and its moments at low Q^2	eg4	K. Adihari	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, V2 in one month
Di-hadron beam spin asymmetry in SIDIS electro production	eg1-dvcs	S. Pisano	Silvia busy with other project Last version in one month
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

First experiments

WG should provide a collaborative environment to promote a timely, accurate and clear physics outcome.

Everybody is welcome to often present his work to share knowledge and get advices from (other) experts

DPWG can contribute to the preparation of data-taking:

- development of common tools
- perform simulation studies
- anticipate the analysis stages and needs
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Relevant examples:

run groups close to take data or with important news: to present the status, issues or progresses is a way to promote a collaborative effort within the DPWG;

6 GeV analysis with significant progresses or better understanding since the last report: exploitation of the CLAS12 new tools and procedures to the 6 GeV data;

12 GeV simulations of detectors or physics channels, which are relevant for deep-processes: this is an important aspect of the upcoming data-taking and we should promote, and share knowledge on, the use of gemc+coatjava for the new (and maybe ongoing) DPWG analyses.

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GOOD WORK!

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