



# Collaboration Meeting

March 28-31, 2017

# Outline

- Agenda
  - On Indico(<https://www.jlab.org/indico/event/201/>).
  - BlueJeans for teleconferencing (see CLAS info wiki).
- Papers: 4 published, 1 accepted, 3 submitted, 13 more in the pipeline since November CLAS Collaboration meeting.
- CLAS12 issues and announcements.
- CLAS announcements.
- User Group announcements.

# Papers published since November 2016

CLAS Paper	Title	Lead Author	Contact Person	Journal
2016-08	Exclusive $\eta$ electroproduction at $W > 2$ with CLAS and transversity GPDs	I. Bedlinskiy	P. Stoler	Phys Rev C 95, 035202
2016-09	Target and Beam-Target Spin Asymmetries in Exclusive $\pi^0$ Electroproduction for $Q^2 > 1 \text{ GeV}^2$	P. Bosted	P. Bosted	Phys Rev C 95, 035207
2016-04	Beam-Target Double Spin Asymmetry In Quasi-Elastic Electron Scattering Off the Deuteron with CLAS	M. Mayer	S. Kuhn	Phys Rev C 95, 024005
2016-07	Target and Beam-Target Spin Asymmetries in exclusive $\pi^+$ electroproduction for $Q^2 > 1 \text{ GeV}^2$ . I. $ep \rightarrow e\pi^+n$	P. Bosted	P. Bosted	Phys Rev C 95, 035206

# Papers accepted since November 2016

CLAS Paper	Title	Lead Author	Contact Person	Journal
2015-07	Target and double spin asymmetries of deeply virtual $\pi^0$ production with a longitudinally polarized proton target and CLAS	A.Kim	A.Kim	Phys Lett B

# Papers submitted

CLAS Paper	Title	Lead Author	Contact Person	Journal
2016-02	Measurement of two-photon exchange effect by comparing elastic $e^{\pm}p$ cross sections	D. Rimal	B.Raue	Phys Rev C
2016-06	Differential Cross Sections and Polarization Observables from CLAS $K^*$ Photoproduction and the Search for New $N^*$ States	A.V.Anisovich	K.Hicks	Phys Lett B
2016-11	Photon Beam Asymmetry $\Sigma$ for $\eta$ and $\eta'$ Photoproduction From the Proton	P.Collins	B.Ritchie	Phys Lett B

# Collaboration-wide Review

CLAS Paper	Title	Lead Author	Contact Person	Status	Journal
2016-10	Determination of the Proton Spin Structure Functions for $0.05 < Q^2 < 5.0 \text{ GeV}^2$ using CLAS	R.Fersch	R.Fersch	Final revisions	PRC
2017-01	Measurements of the Differential and Total Cross Sections of $gd \rightarrow K0 \Lambda$ ( $p$ ) Reaction within the resonance region	N.Compton	N.Compton	Final revisions	PRC
2017-02	Measurements of the $ep \rightarrow e' \pi^+ \pi^- p$ Cross Sections with CLAS at $1.40 \text{ GeV} < W < 2.0 \text{ GeV}$ and $2.0 \text{ GeV}^2 < Q^2 < 5.0 \text{ GeV}^2$	E.L.Isupov	K. Hicks	Final revisions	PRC

# With ad hoc Committee

Title	Lead Author	Contact Person	Run group
Beam spin asymmetries of $ep \rightarrow ep\eta$ in the deep inelastic regime	A.Kim	A.Kim	e1f
Photon Beam Asymmetry Sigma for eta and eta' photoproduction from the proton	P.Collins	B.Ritchie	g8b
Semi-Inclusive $\pi^0$ target and beam-target asymmetries from 6 GeV electron scattering with CLAS	S.Jawalker	K.Griffioen	eg1-dvcs
Measurement of the Helicity Difference in $\omega \rightarrow \pi^+ \pi^- \pi^0$ Photoproduction	Z.Akbar	V.Crede	g9a, g9b
Photon beam asymmetry sigma in the reaction $\gamma p \rightarrow p \omega$ for $E_\gamma = 1.152$ to $1.876$ GeV	P.Collins	B.Ritchie	g8b
$gn \rightarrow \pi^- p$ Differential Cross Section Measurements with CLAS	P.Mattione	D.Carman	PRC

# With ad hoc Committee

Title	Lead Author	Contact Person	Run group
The Beam-Target E asymmetry for $\vec{g} \vec{n} \rightarrow \pi^- p$ in the $N^*$ resonance region	D.Ho	A.Sandorfi	g14
First Exclusive Measurement of Deep Virtual Compton Scattering off $^4\text{He}$ : Toward the 3D tomography of nuclei	M.Hattawy	N.Baltzell	eg6
Measurement of the target asymmetry T in the photo-production of omega mesons off the proton using CLAS at Jefferson Laboratory	P.Roy	V.Crede	g9b



# Forming ad hoc Committee

Title	Lead Author	Contact Person	Run group
Hard exclusive pion electroproduction at backward angles with CLAS	K.Park	K.Park	e1-6a

# CLAS12 Issues and Announcements

- Analysis Committee of Experts (ACE) formed as recommended in Common Tools Report – See Ken Hicks' talk.
- Time to consider forming an analysis review committee now to guide preparations for first experiment (also in Common Tools report).  
<https://www.jlab.org/Hall-B/secure/claschair/nov16/CommonToolsReportNov2016.pdf>
- C4F10 availability for LTCC
  - ERR recommends plan to ensure adequate amount gas or consider running without it.
  - We have C4F10 on hand for one sector and one run.
- Response from Volker on C4F10 availability to get PID with Cherenkov detectors in one sector.
  - Get the RICH installed on schedule – September, 2017.
  - Live with one sector of LTCC if adequate.
  - Only needed for E12-06-112 for pion SIDIS – fall run is only a fraction of the approved beamtime.
- Let me know if you have other ideas related to the C4F10.
- Time has been allocated Friday morning for a discussion if needed.
- Update membership lists by May 29, 2017 otherwise your institute will be responsible for all members on the list as of that date.

# CLAS Announcements

- PAC 45
  - Will be held during the week of July 10, 2017.
  - Proposals due 8 am, Monday, May 22, 2017.
  - [https://www.jlab.org/exp\\_prog/PACpage](https://www.jlab.org/exp_prog/PACpage)
- Division of Nuclear Physics meeting
  - October 25-28, Pittsburgh, PA.
  - Abstracts due date not yet on website – was July 1 last year.
- JSA/SURA
  - Initiatives Fund proposals due July 17, 2017.
  - [http://www.jlab.org/user\\_resources/meetings/UGBOD/Jan\\_2017/PM/UGBoD\\_Lawson.pptx](http://www.jlab.org/user_resources/meetings/UGBOD/Jan_2017/PM/UGBoD_Lawson.pptx)
- Reception this evening after end of session.
- Collaboration photo during the coffee break this morning.
- No Quark Café on Friday.

# User Group Announcements

- Officers
  - Chair: Larry Weinstein (Old Dominion University)
  - Chair-Elect: Krishna Kumar (Stony Brook University)
  - Vice-Chair: Julie Roche (Ohio University)
  - Past-Chair: Haiyan Gao (Duke University)
  - Secretary/Treasurer: Lorelei Chopard (Jefferson Lab)
- Recent UGBoD meeting January 20, 2017
  - Reports on all Halls, Accelerator, Theory, Computing, Diversity, JSA Initiative, etc.
  - Jeopardy policy status presented.
  - Presentations can be found at the following site.  
[https://wiki.jlab.org/cugwiki/index.php/UGBoD\\_Meetings](https://wiki.jlab.org/cugwiki/index.php/UGBoD_Meetings)
- User Group Meeting scheduled for June 19-21.

<https://wiki.jlab.org/cugwiki>



# Collaboration Meeting

June 16-18, 2016