

# CLAS12

## European Workshop

25-28 February 2009, Genova Italia

First European Workshop on the physics program and equipment of the CLAS12 experiment at Jefferson Lab



### Workshop Agenda



# Wednesday, February 25<sup>th</sup>

## Plenary Session I

Aula Magna of the Physics Department

**Convener:** C. Schaerf (*Università di Roma Tor Vergata*)

- 09:00 - 09:20      **Welcome**  
M. Giannini, S. Squarcia (*Università di Genova, INFN - Genova*)
- 09:20 - 09:40      **Introduction to the Workshop**  
D. Tedeschi (*University of South Carolina*)
- 09:40 - 10:20      **CLAS12 and its initial physics program at the JLab 12 GeV Upgrade**  
V. D. Burkert (*Jefferson Lab*)
- 10:20 - 11:00      *Coffee Break*

## Plenary Session II

Aula Magna of the Physics Department

**Convener:** M. Garçon (*CEA – Saclay / IRFU*)

- 11:00 - 11:30      **The Beam's the Thing: Jefferson Lab Now and at 12 GeV**  
M. Tiefenback (*Jefferson Lab*)
- 11:30 - 11:50      **User Involvement in the CLAS12 Project**  
P. Stoler (*Rensselaer Polytechnic Institute*)
- 11:50 - 12:20      **TMDs in Sidis**  
M. Anselmino (*Università di Torino*)
- 12:20 - 12:50      **Generalized Parton Distributions and Transverse Densities**  
M. Vanderhaeghen (*University of Mainz*)
- 12:50 - 14:30      *Lunch Break*

## Plenary Session III

Aula Magna of the Physics Department

**Convener:** R. Baldini (*INFN-Laboratori Nazionali di Frascati e Centro Fermi*)

- 14:30 - 15:00      **Photo- and Electro-Production of Mesons within the GPD Framework**  
P. Kroll (*Wuppertal University*)
- 15:00 - 15:30      **Charting the Interaction between Light Quarks**  
C. Roberts (*Argonne National Lab*)
- 15:30 - 16:00      **Lattice QCD**  
C. Alexandrou (*University of Cyprus*)
- 16:00 - 16:30      *Coffee Break*

## **CLAS Collaboration Meeting**

Aula Magna of the Physics Department

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|---------------|--|
| 16:30 - 17:00 | <b>Status of CLAS</b><br>V. Burkert ( <i>Jefferson Lab</i> )                                 |
| 17:00 - 17:30 | <b>Overview of Recent Photon Beam Runs</b><br>K. Livingston ( <i>University of Glasgow</i> ) |
| 17:30 - 18:00 | <b>Review of Electron Scattering in CLAS</b><br>M. Guidal ( <i>IPN - Orsay</i> )             |
| 18:00 - 18:30 | <b>Data Mining Effort</b><br>E. Piasezky ( <i>Tel Aviv University</i> )                      |

# Thursday, February 26<sup>th</sup>

## Plenary Session IV

Aula Magna of the Physics Department

**Convener:** M. Giannini (*Università di Genova*)

- 09:00 - 09:20      **Status of the CLAS12 Project**  
L. Elouadrhiri (*Jefferson Lab*)
- 09:20 - 09:40      **Nuclear and Hadronic Physics Perspectives within INFN**  
A. Bracco (*Università di Milano and INFN*)
- 09:40 - 10:00      **IN2P3 Perspective**  
B. Erazmus (*IN2P3*)
- 10:00 - 10:20      **IRFU Perspective**  
N. Alamanos (*CEA – Saclay / IRFU*)
- 10:20 - 10:40      **European Perspective**  
G. Rosner (*University of Glasgow*)
- 10:40 - 11:00      *Coffee Break*

## Plenary Session V

Aula Magna of the Physics Department

**Convener:** J.M. Laget (*Gif sur Yvette and Jefferson Lab*)

- 11:00 - 11:30      **Time-like Compton Scattering**  
S. Stepanyan (*Jefferson Lab*)
- 11:30 - 12:00      **Meson Spectroscopy**  
A. Szczepaniak (*Indiana University*)
- 12:00 - 12:30      **A Forward Photon Tagging Facility for CLAS12**  
M. Battaglieri (*INFN – Sezione di Genova*)
- 12:30 - 13:00      **Hadrons in the Nuclear Medium**  
M. Sargsian (*Florida International University*)
- 13:00 - 14:30      *Lunch Break*

## Plenary Session VI

Aula Magna of the Physics Department

**Convener:** E. De Sanctis (*INFN-Laboratori Nazionali di Frascati*)

- 14:30 - 15:00      **Physics Requiring RICH**  
M. Contalbrigo (*INFN - Ferrara*)
- 15:00 - 15:30      **A RICH Detector for CLAS12**  
P. Rossi (*INFN - Laboratori Nazionali di Frascati*)

- 15:30 - 16:00      **Physics with Positron Beams**  
M. Diehl (*DESY*)
- 16:00 – 16:30      **A Positron Source for CEBAF**  
G. Stancari (*Idaho State University and Jefferson Lab*)
- 16:30 - 17:00      *Coffee Break*

**CLAS Collaboration Meeting - CLAS and CLAS12 Highlights**  
Aula Magna of the Physics Department

- 17:00 - 17:30      **Studies of Polarized Quark Fragmentation with CLAS and CLAS12**  
H. Avagyan (*Jefferson Lab*)
- 17:30 - 18:00      **Transverse Polarized Target Options for CLAS12**  
M. Lowry (*Jefferson Lab*)
- 18:00 - 18:30      **CLAS and CLAS 12 Cascade Program**  
A. Starostin (*UCLA*)

# Friday, February 27<sup>th</sup>

## Plenary Session VII

Aula Magna of the Physics Department

**Convener:** J. Ball (*CEA – Saclay*)

- 09:00 - 09:30      **The Neutron Counter for the CLAS12 Central Detector**  
S. Niccolai (*IPN-Orsay*)
- 09:30 - 10:00      **Physics with low energy recoil detector and options for instrumentation for CLAS12**  
S. Stepanyan (*Jefferson Lab*)
- 10:00 - 10:30      **Measurement of Complete Final States in DIS from Light Nuclei**  
K. Joo (*University of Connecticut*)
- 10:30 - 11:00      *Coffee Break*

## Plenary Session VIII

Aula Magna of the Physics Department

**Convener:** D. Ireland (*University of Glasgow*)

- 11:00 - 11:30      **Highlights from Hermes**  
G. Schnell (*DESY*)
- 11:30 – 12:00      **Overview of the Compass Experiment**  
TBA
- 12:00 - 12:30      **Open issues in DIS from a Very High Energy Perspective**  
B. Reisert (*Max Planck Institute*)
- 12:30 - 14:30      *Lunch Break*

## CLAS Collaboration Meeting – Parallel Working Groups

- 14:30 - 16:00      Hadron Spectroscopy Working Group (Aula Magna of the Physics Department)  
Deep Processes Working Group      (A502)
- 16:00 - 16:30      *Coffee Break*
- 16:30 - 18:00      Hadron Spectroscopy Working Group (Aula Magna of the Physics Department)  
Deep Processes Working Group      (A502)

# Saturday, February 28<sup>th</sup>

## CLAS Collaboration Meeting

Aula Magna of the Physics Department

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|---------------|---|
| 09:00 - 09:30 | <b>Nuclear Physics Working Group Report</b><br>G. Gilfoyle ( <i>University of Richmond</i> )              |
| 09:30 - 10:00 | <b>Hadron Spectroscopy Physics Working Group Report</b><br>P. Eugenio ( <i>Florida State University</i> ) |
| 10:00 - 10:30 | <b>Deep Processes Physics Working Group Report</b><br>M. Guidal ( <i>IPN - Orsay</i> )                    |
| 10:30 - 11:00 | <i>Coffee Break</i>   |
| 11:00 - 11:15 | <b>Membership Committee Report</b><br>K. Giovanetti ( <i>James Madison University</i> )                   |
| 11:15 - 11:30 | <b>Speakers Committee Report</b><br>M. Battaglieri ( <i>INFN - Genova</i> )                               |
| 11:30 - 11:45 | <b>Service Work Committee Report</b><br>P. Rossi ( <i>INFN - Laboratori Nazionali di Frascati</i> )       |
| 11:45 - 12:00 | <b>Status Report on the CLAS Collaboration</b><br>D. Tedeschi ( <i>South Carolina University</i> )        |



# Hadron Spectroscopy Working Group Meeting

## Friday, February 27<sup>th</sup>

Aula Magna of the Physics Department

- 14:30 - 14:50      **Status of the EBAC@JLAB effort**  
*Bruno Julia-Diaz (University of Barcelona)*
- 14:50 – 15:10       **$\Sigma^*$  Photoproduction with CLAS**  
*Gagik Gavalian (Old Dominion University)*
- 15:10 - 15:30      **Cross sections for  $\Lambda(1405)$  and  $\Lambda(1520)$  Photoproduction**  
*Kei Moriya (Carnegie Mellon University) (EVO)*
- 15:30 – 15:50      **Cross Section for Photoproduction of the X(1280)**  
*Ryan Dickson (Carnegie Mellon University) (EVO)*
- 15:50 – 16:10      **Status of  $K^+\Sigma^0$  analysis from g11 data**  
*Biplab Day (Carnegie Mellon University) (EVO)*
- 16:10 - 16:30      *Coffee Break*
- 16:30 - 16:50      **CLAS g12 Update and Search for New Strangeonia in g12**  
*Mukesh Saini (Florida State University)*
- 16:50 – 17:10      **Prospects for Exotic Meson Search in  $3\pi$**   
*Craig Bookwalter(Florida State University)*
- 17:10 - 17:30      **Beam Asymmetry in  $\pi^+\pi^-$  photoproduction (g8b)**  
*Charles Hanretty (Florida State University) (EVO)*
- 17:30 – 17:50      **Recent Progress in the Extraction of Single-Target and Double Spin Asymmetries of Pion Electroproduction Using CLAS/EG4 Data**  
*Xiaochao Zheng (University of Virginia) (EVO)*
- 17:50 – 18:10      **Photon Asymmetries for  $K\Lambda$  production on the Deuteron**  
*Russell Johnstone (University of Glasgow)*

# Deep Processes Working Group Meeting

## Friday, February 27<sup>th</sup>

Room A502 - 5th floor of the Physics Department

- 14:30 - 14:55      **Vector Meson Production at HERMES**  
*A. Borissov (DESY)*
- 14:55 – 15:20      **Vector Meson Production + DVCS et H1**  
*L. Favart (Université Libre de Bruxelles)*
- 15:10 - 15:40      **Vector Meson Production at CLAS**  
*M. Guidal (IPN Orsay)*
- 15:40 – 16:00      **p+ Exclusive Electroproduction at CLAS (e1-dvcs)**  
*A. Fradi (IPN Orsay)*
- 16:00 - 16:30      *Coffee Break*
- 16:30 - 16:50       **$\Delta$ VCS at CLAS (e1-dvcs)**  
*B. Moreno (IPN Orsay)*
- 16:50 – 17:10      **Near Threshold Meson Production at High  $Q^2$  and New Form Factors**  
*P. Khetarpal (Rensselaer Polytechnic Institute)*
- 17:10 - 17:30      **Status of Semi-Inclusive Pion Electroproduction Analysis of e1-f**  
*W. Gohn (University of Connecticut)*
- 17:30 – 17:45      **Studies of Spin Orbit Correlations with CLAS**  
*H. Avakian (Jefferson Lab)*
- 17:45 – 18:00      **E1-DVCS(2) Run Status**  
*M. Ungaro (University of Connecticut)*
- 18:00 - 18:15      **Status Update on the eg1-dvcs Experiment**  
*E. Seder (University of Connecticut)*



**Location:**

Dipartimento di Fisica dell'Università di Genova  
Via Dodecaneso 33, 16146 Genova, Italia

**Information:**

<http://www.ge.infn.it/~clas12>  
clas12@ge.infn.it

**Organizing Committee:**

Marco Battaglieri (INFN - Genova)  
Volker Burkert (Jefferson Lab)  
Evaristo Cisbani (INFN - ISS)  
Raffaella De Vita (INFN - Genova)  
Gail Dodge (Old Dominion University)  
Latifa Elouadrhiri (Jefferson Lab)  
Michel Garçon (CEA - Saclay/IRFU)  
Ralf Gothe (University of South Carolina)  
Mikhail Osipenko (INFN - Genova)  
Marco Ripani (INFN - Genova)  
Guenther Rosner (University of Glasgow)  
Patrizia Rossi (INFN - LNF)  
Paul Stoler (Rensselaer Polytechnic Institute)  
Mauro Taiuti (Università di Genova)  
David J. Tedeschi (University of South Carolina)  
Dennis Weygand (Jefferson Lab)

**Sponsored by:**

Istituto Nazionale di Fisica Nucleare  
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