

Thursday, 5 October 2017

08:50 - 10:30

**Hadron Spectroscopy Working Group 1**

Remote connection: <https://bluejeans.com/758848750>

Convener: Marco Battaglieri (INFN-GE)

Location: CEBAF Center ( F113 )

08:50 **Hadron Spectroscopy Working Group Business 20'**

Speaker: Dr. Marco Battaglieri (INFN-GE)

09:10 **Analysis of Photoproduction Reactions 20'**

Speaker: Dr. Vincent Mathieu

09:30 **First Measurement of  $\Xi^-$  Polarization in Photoproduction. 20'**

Speaker: Dr. Jason Bono (FNAL)

09:50 **Analysis of  $\eta \rightarrow \pi^+ \pi^- \pi^0$  with CLAS6 20'**

Speaker: Mr. Daniel Lersch (Juelich Research Center)

10:10 **Vector Meson Photoproduction off of Deuterium using g10 Data 20'**

Speaker: Mr. Taya chetry (Ohio University)

09:30 - 16:00

**Hadron Spectroscopy Working Group 2**

Remote connection: <https://bluejeans.com/758848750>

Convener: Dr. Marco Battaglieri (INFN-GE)

Location: CEBAF Center ( F113 )

14:30 **Photoproduction of  $K^0 \Sigma^+ \Lambda^+$  from CLAS-g12 20'**

Speaker: Mr. Zulkaida Akbar

14:50 **Analysis review status 20'**

11:00 - 12:30

**CLAS WGs Joint Session**

Remote connection: <https://bluejeans.com/758848750>

Conveners: Dr. Marco Battaglieri (INFN-GE), Mr. Marco Contalbrigo (INFN Ferrara), Dr. Michael Wood (Canisius College)

Location: CEBAF Center ( F113 )

11:00 **Introduction 10'**

Speakers: Dr. Marco Battaglieri (INFN-GE), Mr. Marco Contalbrigo (INFN Ferrara), Dr. Michael Wood (Canisius College)

11:10 **ACE report 10'**

Speaker: Ken Hicks (Ohio University)

11:20 **The hadron spectroscopy analysis gframe 15'**

Speaker: Dr. Derek Glazier (University of Glasgow)

11:35 **The DEEP analysis framework 15'**

Speaker: Dr. Harut Avagyan (Jefferson Lab)

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12:10 **How the WG can help in data analyses 20'**

# HSWG

## CLAS Collaboration Meeting

### JLab, October 5 2017

## Agenda

- \* CLAS6 data analysis: Cascade
- \* Status of ongoing analysis (update from previous collaboration meeting)
- \* Dedicated (joint) session for CLAS12

## Activities

- \* Push to get early results (from the director)
- \* Engineering run + RG-A preparation (before the next coll meeting!)
- \* Strengthen the collaboration with JPAC
- \* Any analysis ready for review has to give a presentation (sooner or later!) to the HSWG:
  - \* Taya's analysis about VM from deuterium
  - \* Jason's analysis about cascade polarisation
- \* Analysis ready for a plenary talk next time:
  - \* Mike's about  $\pi^0$
  - \* Nick's about  $S_{LT}$

## Talks

- \* Over all CLAS contributions, HSWG-related are 35%
- \* Regular interactions with the CSC
- \* REMINDER: Communicate talks and proceedings to the CSC
- \* JSA-TFC funds \$20k allocated for 2017 still available

# WG Reviews status

???



**DONE!**

# WG Reviews status

## New since last meeting

### Gamma n --> KY from g14

PI:R.Schumacher

RC:W.Briscoe (Chair), B.McKinnon ,A.DAngelo

Status: justified delay

### Dalitz Plot Analysis of eta' to eta pi pi – from CLAS g12 Data Set

PI:S.Ghosh

RC:V.Crede (chair),A.Rizzo, E.Pasyuk

Status: first round of comments

## In progress

### Photoproduction of the $3\pi$ mesons in the reaction $\gamma p \rightarrow \pi^+\pi^+\pi^-n$ with CLAS detector at 6 GeV/c<sup>2</sup>

PI:P.Eugenio

RC: D.Glazier (chair),A.Filippi, M.Dugger

Status: 2nd round, waiting for response

### Exclusive pi- Electroproduction off the Neutron in Deuterium in the Resonance Region

PI:Y.Tian

RC: Nikolay Markov (Chair), Mikhail Bashkanov , Eugene  
Isupov

Status: 1st round, waiting for response from PI

# WG Reviews status

## Radiative decay of eta' to pi+ pi- gamma from g11 data set

PI: G. Mbianda Njencheu

RC: R. Schumacher, S. Schadmand, A. Celentano

Status: no response in many months

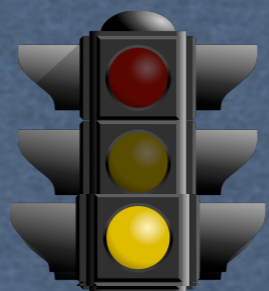
## Measurement of Sigma in pi- photoproduction on the neutron from the g13b dataset

PI: D. Sokhan (GlasgowU) et al.

RC: Eugene Pasyuk (Chair), Nicholas Zachariou, Paul Mattione

Started Jul 2016

Status: waiting for comment from author



## Pentaquark search in g10 by using the MMSA method

PI: Kenneth Hicks et al.

RC: Stepan Stepanyan (Chair), Lei Guo, Bryan McKinnon

Started Aug 2015

Status: NO progress

## Polarization Observables T and F in the $\vec{p}(\gamma, \pi^0)p$ Reaction

PI: H. Jiang

RC: Barry Ritchie (Chair), Volker Crede, Bryan McKinnon

Status: no info received from March

## Spin observables in eta meson photoproduction on the proton from FROST data

PI: R. Tucker (ArizonaU) et al.

RC: K. Livingston, J. Price, Xiangdong Wei

Started July 2016

Status: on-hold, still on-hold but authors are alive, paused for a while ...

## KLambda and KSigma from FROST

PI: N. Walford et al.

RC: S. Strauch, M. Holtrop, P. Mattione,

Started May 2015

1 round of comments in May 2015, waiting for a revised

Status: stalled for a long while, now it seems to be resurrected, unfortunately NO, no news ...

## Exclusive Photo-Production Measurement of $K^+\Sigma^*-$ off Quasi-Free Neutrons in Deuterium

PI: H. Lu (SCU) et al.

RC: N. Zachariou, M. Dugger, D. MacGregor

Started in 2012 (!)

Status: ??????????????

# CLAS Working Groups Joint Session

11:00 - 12:30

## CLAS WGs Joint Session

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## 1) do we want a common analysis framework?

- pros: framework already set up, validated tools, simple procedure to incorporate new/better procedures, analysis review speed up
- cons: single framework, reduced freedom in developing the framework

## 2) can be the framework the same for the 3 WG?

- pros: see above
- cons: single framework, reduced freedom in developing the framework

## 3) How to implement it?

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## What is the role of the WG in CLAS12 era?

- role of the WG in the early stage of the run
- connection with other WG (CALCOM/OFF-LINE)
- replace/flank the run-groups?
- establish/maintain the analysis framework?
- how can we do better in analysis reviews:
  - adding a WG 'observer' from the beginning and then co-optate her/him in the analysis review committee
  - run-group analysis (a la g12)