

08:30 - 10:00

Hadron Spectroscopy Working Group - I

<https://bluejeans.com/796421854>


Convener: Dr. Marco Battaglieri (INFN-GE)

08:30 **HSWG Business 20'**

Speaker: Dr. Marco Battaglieri (INFN-GE)

08:50 **JPAC update 30'**

Speaker: Dr. Vincent Mathieu (JLab)

Material: [Slides](#) 

09:20 **An update on omega->pi0e+e- analysis from g12 15'**

Speaker: Susan Schadmand (Forschungszentrum Juelich)

09:35 **Update on gamma p -> p pi0 eta analysis from g12 25'**

Speaker: Dr. Andrea Celentano (INFN-Genova)

10:00 - 10:30

Coffee break

10:10 - 12:10

Hadron Spectroscopy Working Group - II

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Convener: Dr. Marco Battaglieri (INFN-GE)

Location: L102-104

10:30 **Photoproduction of Λ^* resonances 20'**

Speaker: Utsav Shrestha (Ohio University)

10:50 **np -> d pi0 from the g12 data 20'**

Speaker: Ken Hicks (Ohio University)

11:10 **Update on Lambda-Nucleon Scattering with g12 20'**

Speaker: Mr. Joey Rowley (Ohio University)

11:30 **Status of the HSWG data analysis 20'**

11:50 **Discussion 10'**

HSWG

CLAS Collaboration Meeting
JLab, Mar 7 2019

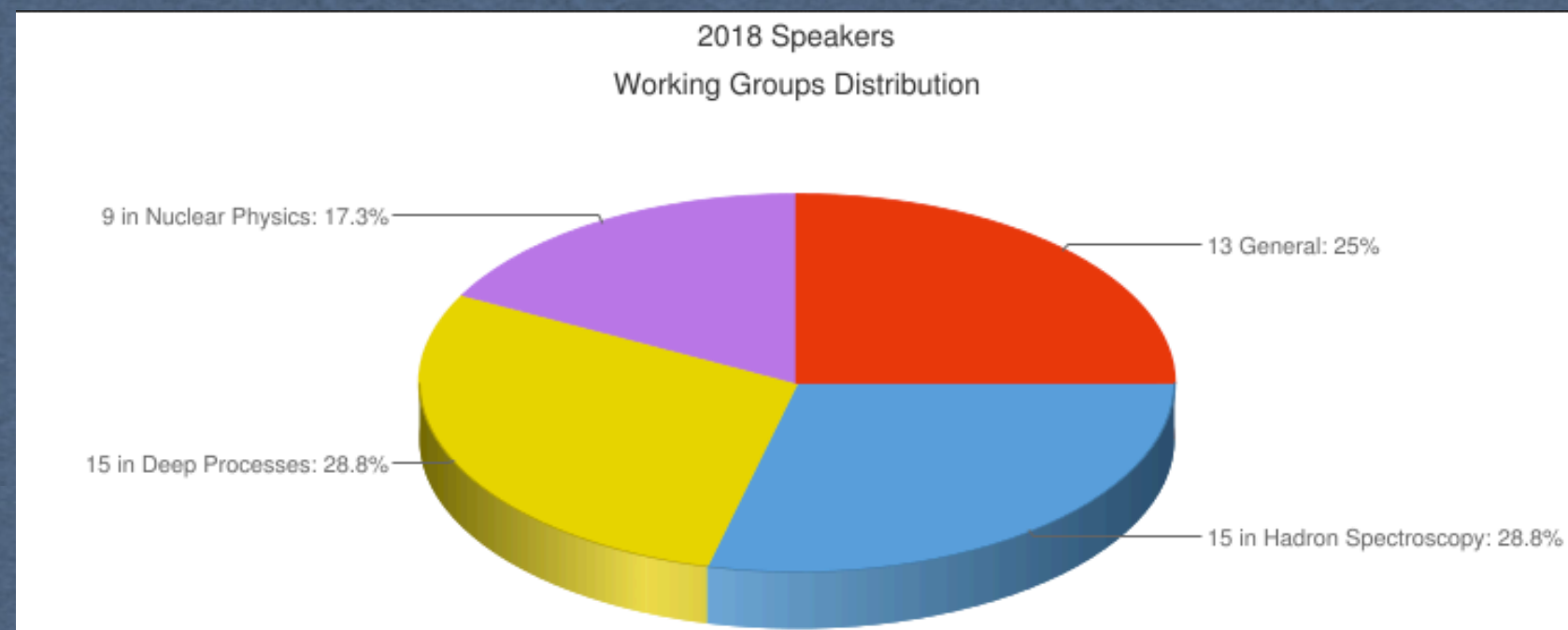
+ HS/Deep/Nuclear
CLAS12 analyses
joint session

Agenda

- * CLAS6 data analysis
- * Status of ongoing analysis (update from previous collaboration meeting)
- * Dedicated (joint) session for CLAS12
 - Data processing readiness review
 - Reorganisation of analysis review process

Talks

- * Over all CLAS contributions, HSWG-related are 29% in 2018
- * HSWG representatives in the CSC
 - A.d'Angelo (currently CSC chair)
 - L.Guo
- * JSA-TFC \$18k granted for 2019



CLAS12-related Activities

- * Bi-weekly HSWG meeting focused on Low-Q2 specific needs:
 - FT Calibration (in coordination with the CALCOM and FirstExperiment)
 - MesonExTrigger studies
 - pld task force
 - review the status of current analysis (similar to Fall '18 DNP preparation)
- * Meeting on Tuesday at 11:00 (JLab-time) every other week
- * All groups are encouraged to look at the data (low/high level) to check calibration, possible issues, ...
- * List of ongoing analysis on HSWG wiki page

For discussion

- * Analysis framework: discussion in the plenary session
- * Analysis tools validation:
 - needs to be discussed
- * Analysis review optimization
 - guide lines

For the next meeting

- * HSWG nominating committee (vote in July, term starts in September)

Reaction	CLAS running period	Principal Investigator(s)	Graduate Student	Adviser(s)	Contact person(s)	Status
$\gamma^* p \rightarrow \pi^0 p$ and eta p	RG-A	Andrea Bianconi, Luca Venturelli			mailto:andrea.bianconi@unibs.it	
Q^2 -dependent cross sections for $\gamma^* p \rightarrow \pi^+ \pi^- p$ at $Q^2 > 2 \text{ GeV}^2$	RG-A	Krishna Neupane		Ralf Gothe		Underway
$\gamma^* p \rightarrow \pi^+ \pi^- p$	RG-A	Adam Thornton		Derek Glazier		Underway
3pi	RG-A	Derek Glazier		Derek Glazier		No Signal Yet
rho beam asymmetry	RG-A	Michael Dugger		Michael Dugger		Underway
Survey of photoproduced cascade states	RG-A	Michael Dugger		Michael Dugger		No Signal Yet
survey of Cascade and Omega baryons	RG-A	Nicholas Zachariou		Nicholas Zachariou		Underway
Omega- cross section	RG-A	Will Phelps				Underway
Inclusive and elastic cross section studies	RG-A	Nikolay Markov			Nikolay Markov	Under way
Single pion electroproduction in the resonance region	RG-A	Nikolay Markov			Nikolay Markov	Under way
Single pion exclusive structure functions at $Q^2 > 5 \text{ GeV}^2$	RG-A	Evgeny Isupov			Evgeny Isupov	Under way
$\gamma^* p \rightarrow \pi^+ \pi^- p$ cross sections at $Q^2 > 5 \text{ GeV}^2$	RG-A	Evgeny Golovach			Evgeny Golovach	Under way
Exclusive Two K-short electroproduction cross sections	RG-A	Ken Hicks			Ken Hicks	Just started
N* structure: KY cross section, pol. transfer at $Q^2 > 1 \text{ GeV}^2$	RG-A	Daniel S. Carman			Daniel S. Carman	Under way
Extraction of the nucleon resonance electroexcitation amplitude from $\gamma^* p \rightarrow \pi^+ \pi^- p$ electroproduction off protons with the CLAS12.	RG-A	Viktor Mokeev			Viktor Mokeev	Under way
Evaluation of the resonant contribution into inclusive structure functions.	RG-A	Astrid Hiller Blin			Astrid Hiller Blin	Under way
eta.pi	RG-A	Carlos Salgado		Carlos Salgado		Did not start Yet (in January)
J/psi photoproduction near threshold	RG-A	Stepan Stepanya	Joseph Newton	Nathan Baltzell, Rafayel Paremuzyan, Valery Kubarovsky		Analysis started
η' and ω decays					Susan Schadmand	Did not start yet

- * CLAS12 data analysis
- * List on HSWG wiki (https://www.jlab.org/Hall-B/secure/hadron/wiki/index.php/CLAS12_Analysis_projects)
- * Keep it updated

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WG Reviews status

Released

Vector-Meson Photoproduction decaying to Multitrack-Final States using CLAS-g12 Data

PI: Z.Akbar

RC: John Price (Chair), Susan Schadmand , Eugene Pasyuk

Status: started on Jan 1, progressing, the committee received the author's response, NEED TO GIVE FEEDBACK ASAP

New since last meeting

Analysis of the polarization observables H and P from the reaction $\gamma p \rightarrow \pi^+ n$

PI: R.Lee

RC:

Status: about to start

WG Reviews status

In progress

Measurement of the G Double-Polarisation Observable in Positive Pion Photoproduction

PI: L.Zana

RC: S.Strauch (Chair), P.Cole, D.Sokhan

Status: 1 round of comments sent on August, waiting for the response; still waiting now

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

PI: H.Jiang

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

Status: the group is working on major issue, after a thorough review, it is almost done

WG Reviews status

In progress

Exclusive π^- Electroproduction off the Neutron in Deuterium in the Resonance Region

PI: Y. Tian

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

Status: 1st round in August, waiting for response from PI, response received, 2nd round uploaded on Feb 8

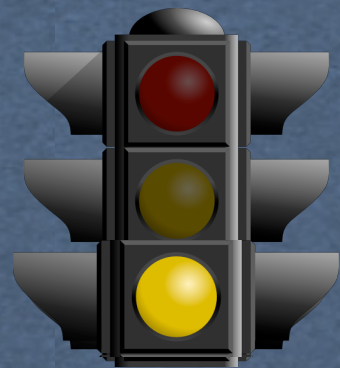
Dalitz Plot Analysis of $\eta' \rightarrow \eta \pi \pi$ – from CLAS g12 Data Set

PI: S. Ghosh

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

Status: Started in July'17; first round of comments on Sept 17: no response from the PI since then.

Scarce communication with the review committee. Is the analysis dead ?????



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: the PI is working on it: may be a month?

Dalitz Plot Analysis of $\eta' \rightarrow \eta \pi \pi$ – from CLAS g12 Data Set

PI: S. Ghosh

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

Status: Started in July'17; first round of comments on Sept 17: no response from the PI since then.

Scarce communication with the review committee. Is the analysis dead ?????

Ankhi is taking over but a lot of work needs to be done



WG Reviews status

~~Photoproduction of the 3π mesons in the reaction $\gamma p \rightarrow \pi^+\pi^+\pi^-n$ with CLAS detector at 6 GeV/c²~~

~~PI: P. Eugenio~~

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

~~Status: 2nd round, response received, almost done~~

~~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: ????????????~~

Dismissed

KLambda and KSigma from FROST

PI: N. Walford et al.

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

Radiative decay of η' to $\pi^+\pi^-\gamma$ from g11 data set

PI: G. Mbianda Njengeu

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

Pentaquark search in g10 by using the MMSA method

PI: Kenneth Hicks et al.

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

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

Actions

- * Remove these analyses from the list of active analyses
- * Share this information to the whole HSWG to see if any resources could be allocated to continue (assuming full collaboration from the former PI!)