

08:30 - 10:00

Hadron Spectroscopy Working Group - I

Bluejeans link: <https://bluejeans.com/906158081>

Convener: Dr. Marco Battaglieri (INFN-GE)

Location: L102

08:40 **HSWG business 20'**

Speaker: Dr. Marco Battaglieri (INFN-GE)

09:00 **JPac updates 30'**

Speaker: Prof. Adam Szczepaniak (Indiana University/JLab)

09:30 **Homework for HSWG: Light Nucleon Resonance Revival 30'**

Speaker: Prof. Igor Strakovsky (The George Washington University)

Material: [Slides](#) 

HSWG CLAS

Collaboration Meeting JLab, Jun 20 2019

10:30 - 12:30

Hadron Spectroscopy Working Group - II

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Speaker: Dr. Nicholas Zachariou (University of Edinburgh)

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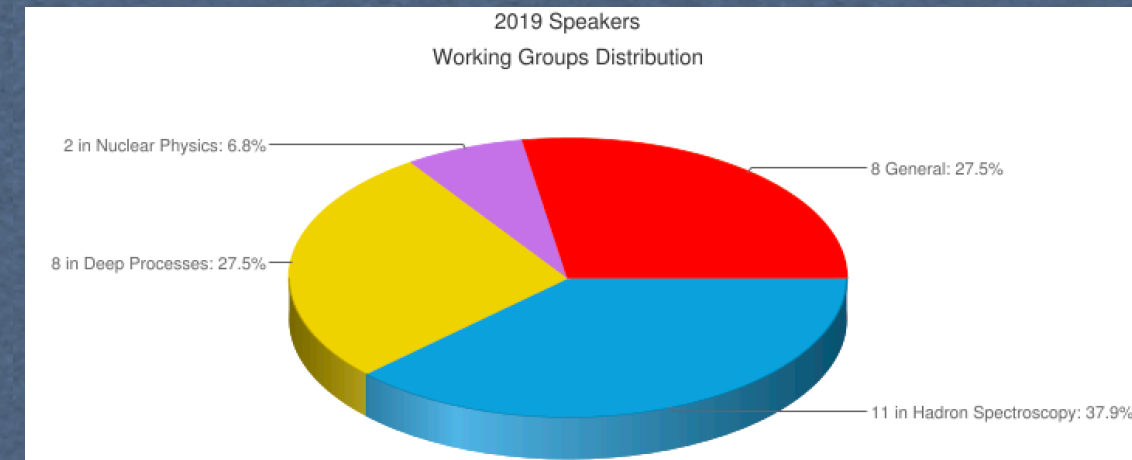
+ HS/Deep/ Nuclear CLAS12 analyses joint session

Agenda

- * CLAS6 data analysis
- * Status of ongoing analysis (update from previous collaboration meeting)
- * Dedicated (joint) session for CLAS12
 - Hadron structure group report (Dan)
 - Update on J/Psi analysis (Joseph)

Talks

- * Over all CLAS contributions, HSWG-related are 38% in 2019 (partial)
- * HSWG representatives in the CSC
 - A.d'Angelo (currently CSC chair)
 - L.Guo
- * JSA-TFC \$18k granted for 2019



* Review of the "Quasi-real Photoproduction of Hadrons on Deuterium" PI W.Phelps F. Hauenstein, (Y.Ilieva,B.McKinnon)

- * HSWG chairman nominating committee
 - Open for nominations!
 - vote in July, term starts in September '19 for 3 years

* List of ongoing analysis on HSWG wiki page

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

WG Reviews status

Released

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

About to start (searching panelists)

Eta pi and eta' pi photo production ($gI2$)

PI: A. Celentano

$p\bar{p}$ ($gI2$)

PI: W. Phelps

WG Reviews status

In progress

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

PI: R.Lee (M.Dugger)

RC: A.d.Angelo (Chair), B.McKinnon, E.Golovach

Status: in progress but requires some iterations with the leading authors

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

PI: N.Zachariou (L.Zana)

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

Status: restarted from scratch: new analysis for the same committee

WG Reviews status

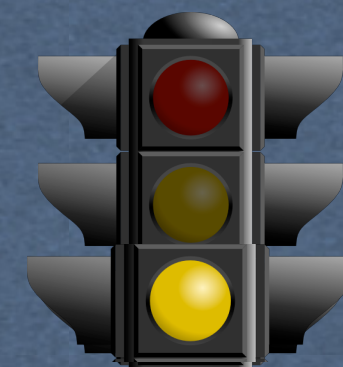
In progress

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, still working on it. NEEDS SOME ACTIONS



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

new message sent to Ankhi: not aware of the response ...

Many interactions between S. Schadmand Sudeep and Ankhi

Waiting for a while



WG Reviews status

Resurrected

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

Dismissed

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: ???????????

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!)

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