

Hadron Spectroscopy 1

Remote connection: <https://bluejeans.com/827115701>

Convener: Marco Battaglieri (INFN-GE)

Location: CEBAF Center (Auditorium)

- 08:45 **ACE summary 10'**
Speaker: Kuhn Sebastian (Old Dominion University)
- 08:55 **Hadron Spectroscopy Working Group Business 25'**
Speaker: Marco Battaglieri (INFN-GE)
- 09:20 **The cross section measurement of the 3π final states from CLAS-g12 20'**
Speaker: Zulkaida Akbar (FSU)
- 09:40 **Photoproduction of 3π with CLAS 20'**
Speaker: Paul Eugenio (Florida State University)
- 10:00 **Status update on the analysis of $\eta \rightarrow \pi + \pi - X$, $X = \pi^0, \gamma$ with CLAS 20'**
Speaker: Daniel Lersch (Juelich Research Center)
- 10:20 **Discussion 10'**
- 10:30 **Coffee Break 30'**
- 11:00 **JPAC report 20'**
Speaker: Cesar Fernandez-Ramirez (UNAM)
- 11:20 **Light meson decay 20'**
Speaker: Susan Schadmand (Forschungszentrum Juelich)
- 11:40 **CLAS12 MesonEx trigger studies 20'**
Speaker: Stefan Diehl (Giessen University)
- 12:00 **Near threshold J/ψ photoproduction and study of LHCb pentaquarks with CLAS12 20'**
Speaker: Valery Kubarovsky (Jefferson Lab)
- 12:20 **Analysis reviews status 40'**

HSWG

CLAS Collaboration Meeting
JLab, June 15 2017

Agenda

- * ACE and HSWG in CLAS12 era: building a sweet and regulated framework for spectroscopy
- * HSWG presentation of mature analysis: mandatory when ready for review
- * LHCb pentaq proposal HSWG reviewed and submitted to PAC45
- * Status of ongoing analysis

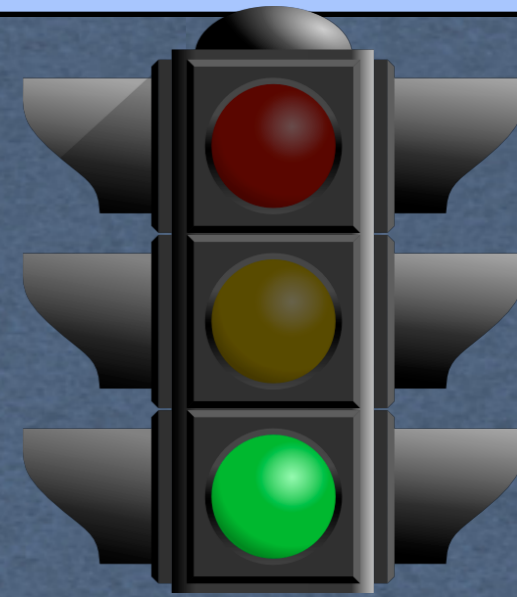
Activities

- * Early results report (B.McKewon)
- * Are we ready for physics? KPP data analysis showed that we can make it
- * Regular report at HSWG on JPAC activity to strengthen exp/the connection
- * Analysis review: check technical analysis and if the physics (technically) correctly extracted
- * Analysis ready for a plenary presentation (e.g. Paul's $\gamma n \rightarrow p\pi^-$ Differential Cross Section Measurements with CLAS)

Talks

- * Over all CLAS contributions, HSWG-related are 40%
- * Regular interactions with the CSC
- * List of possible topics/speakers on the latest CLAS results
- * REMINDER: Communicate talks and proceedings to the CSC
- * JSA-TFC funds \$20k allocated for 2017

WG Reviews status



Polarized structure function σ_{LT} from the single π^0 electroproduction on the proton in the resonance region

PI: Nick Markov

RC: V. Crede, Ralf Goethe, Yelena Prok

Started Sept 2014

Status: is moving forward

Measurement of Cross-Sections of exclusive π^0 Photo-production on Hydrogen from 1.1 GeV - 5.45 GeV using e^+e^- + γ

PI: Michael Kunkel

RC: Carlos Salgado (Chair), Lei Guo, Yordanka Ilieva

Status: 2nd round, healthy



DONE!

Cascade polarization in photoproduction

PI: J. Bono et al.

RC: A. D'Angelo (Chair), M. Kunkel, E. Pasyuk

Status: 2nd round, healthy



Coherent omega-meson photoproduction off the deuteron

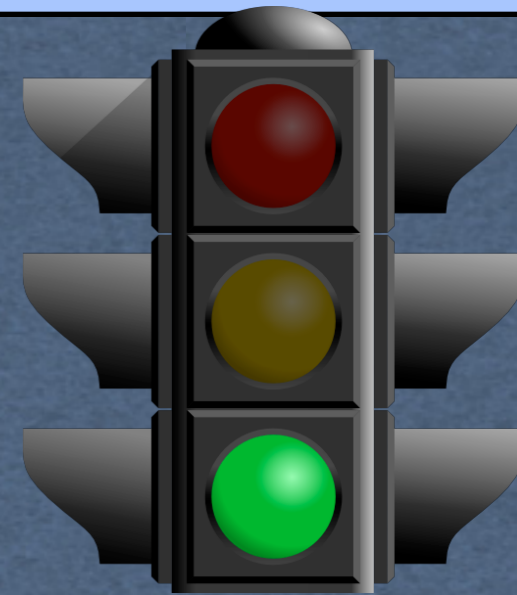
PI: T. Chetry

RC: B. McKinnon, P. Cole, N. Zachariou

Status: 1st round

Less than 6 months!

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: 1st round, waiting for response

New
since last meeting

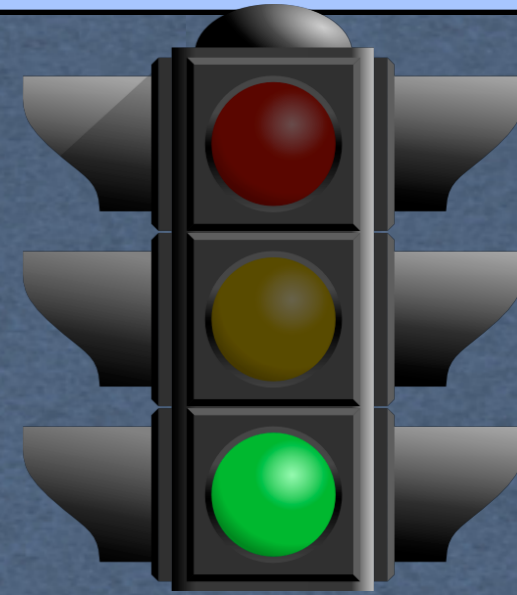
Exclusive π^- Electroproduction off the Neutron in Deuterium in the Resonance Region

PI: Y. Tian

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

Status: 1st round

WG Reviews status



In progress

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

PI: G. Mbianda Njencheu

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

Status: 1st round, stud graduated, revised note in prep

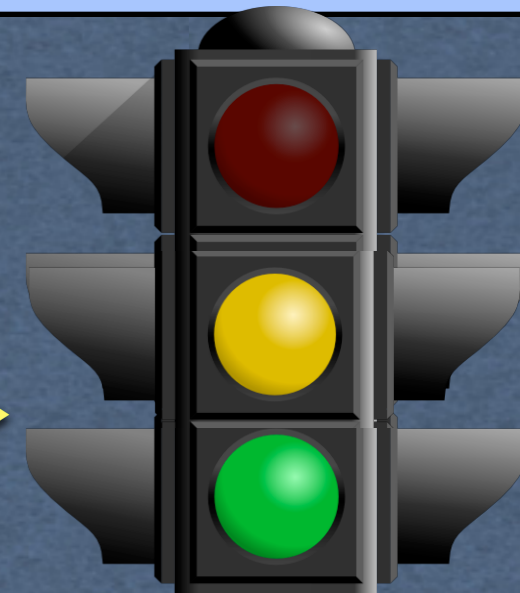
Polarization Observables T and F in the $\vec{p}(\vec{\gamma}, \pi^0)p$ Reaction

PI: H. Jiang

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

Status: 1st round, still waiting for response (was March?)

WG Reviews status



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

PI: D.Sokhan (GlasgowU) et al.

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

Started Jul 2016

Status: lost contact with the author after 1st round, RESUMED YESTERDAY!

Almost 1-year!

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

Almost 1-year!

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: stopped communication from 6 months, NO progress

Almost 2-year!

KLambda and KSigma from FROST

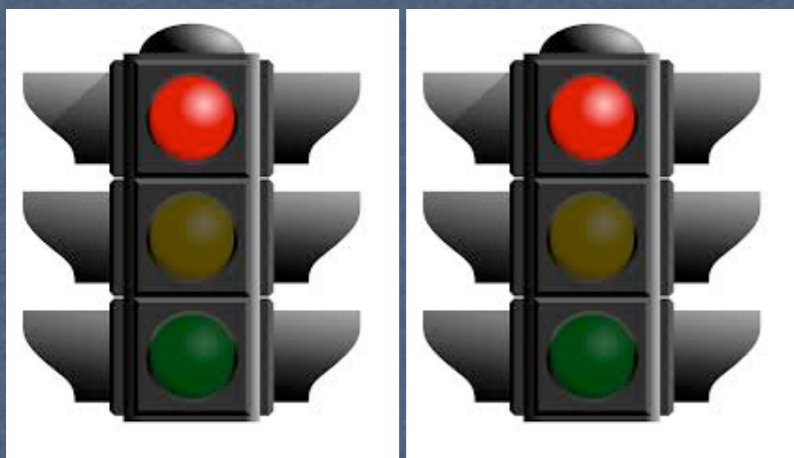
PI: N.Walforf et al.

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

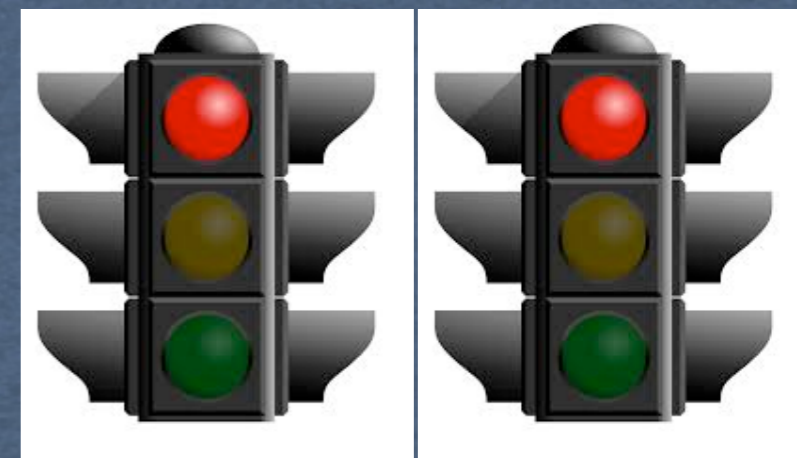
Started May 2015

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

More than 2-year!



WG Reviews status



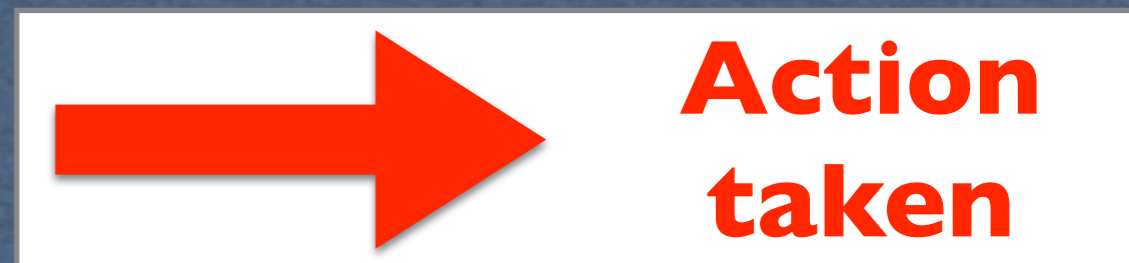
Exclusive Photo-Production Measurement of $K^+ \Sigma^* -$ off Quasi-Free Neutrons in Deuterium

PI: H.Lu (SCU) et al.

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

Started in 2012 (!)

Status: resumed with reshuffled committee, still waiting ...



Asked to SC/run-group to go through the analysis and see if the latest issues have an easy fix
H.Lu will work in the next few months