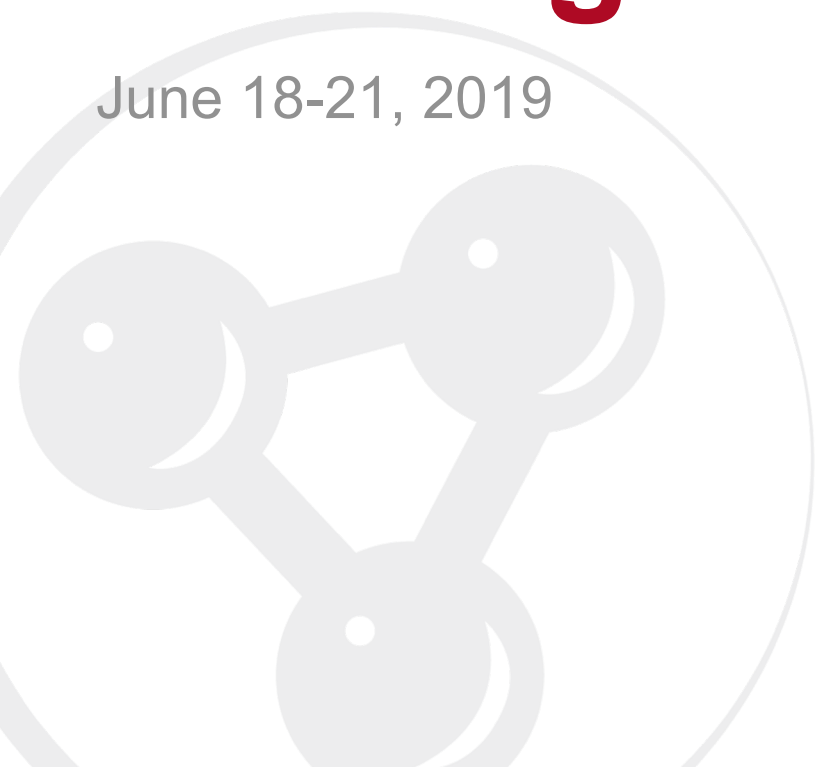# CLAS Collaboration Meeting

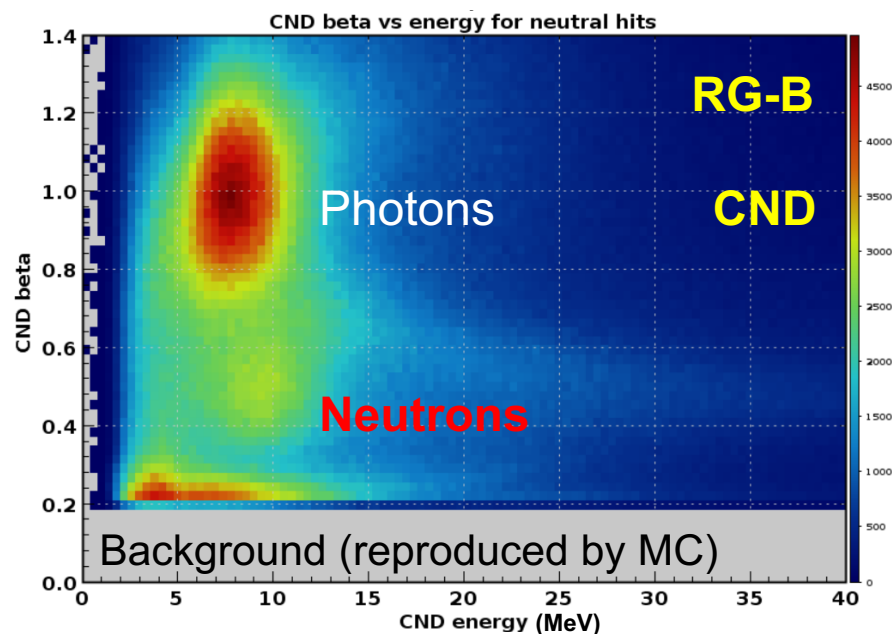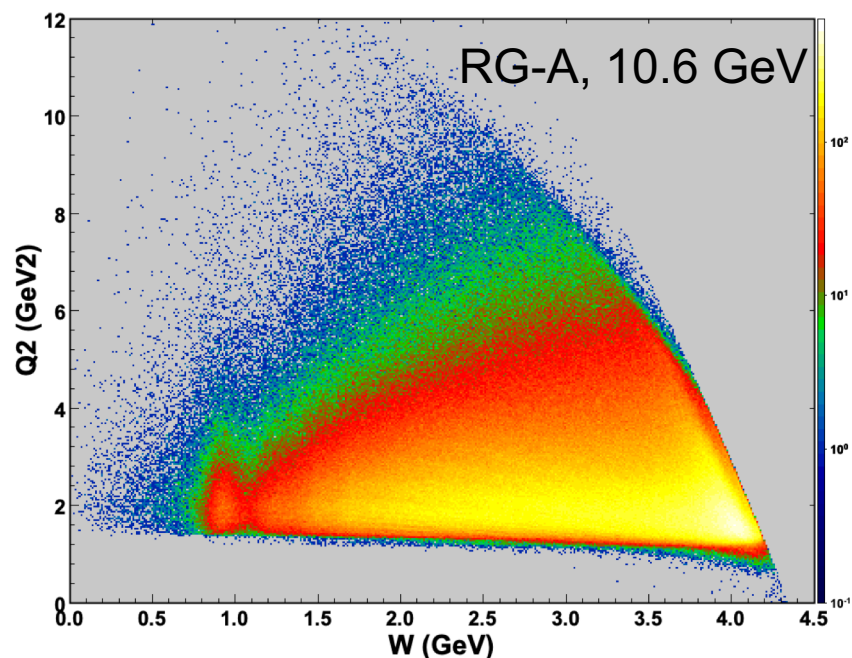June 18-21, 2019

Outline

- Events since last meeting

- PAC47

- Collaboration business:

  - Vote on authorship rules

  - Charter change on software group

  - Collaboration Chair election

- New CLAS publications

- From JLab User Organization
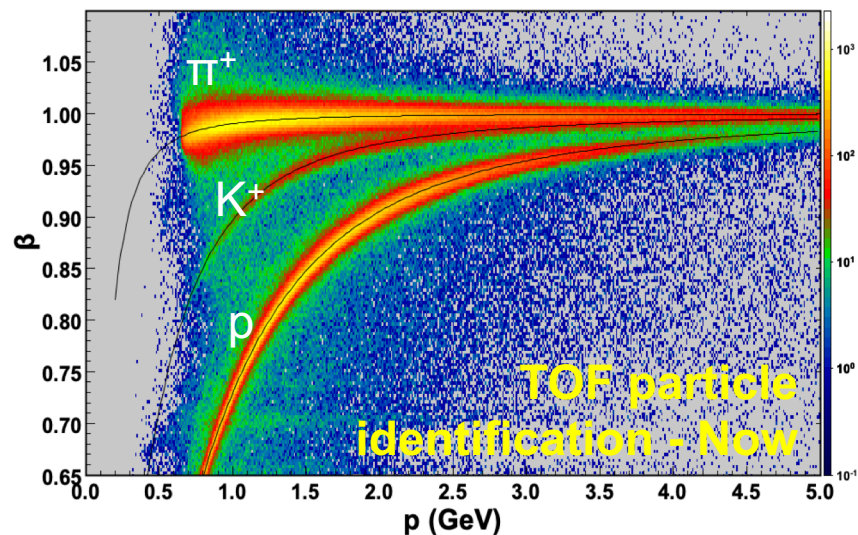
- Meeting agenda

Since the last meeting…

- Completed first RG-B run (~84 mC, ~24% of approved beam time) and third portion of RG-A run (total of ~280 mC, ~50% of approved beam time)

- Preparations for data processing continued (RG-A decoding)

RG-A, 10.6 GeV

CND beta vs energy for neutral hits

RG-B
CND
Photons
Neutrons
Background (reproduced by MC)

- Important progress on CLAS12 offline software, reconstruction, calibration, alignment, … in preparation for first massive data processing

- Pilot processing of RG-A data in progress

Reconstruction and data quality

- Progress on calibration/reconstruction for all subsystems:
  - Forward tracker vertex resolution close to specs
  - Significant improvement to PID (TOF)
  - …
- Still work to do but getting ready for pass1!

TOF particle identification – Oct. 2018

After v_x and v_y 3σ cut

Entries	39514
amp	1066.913
mean	-5.075
sigma	0.612
amp	1158.864
mean	-0.114
sigma	0.605

TOF particle identification - Now
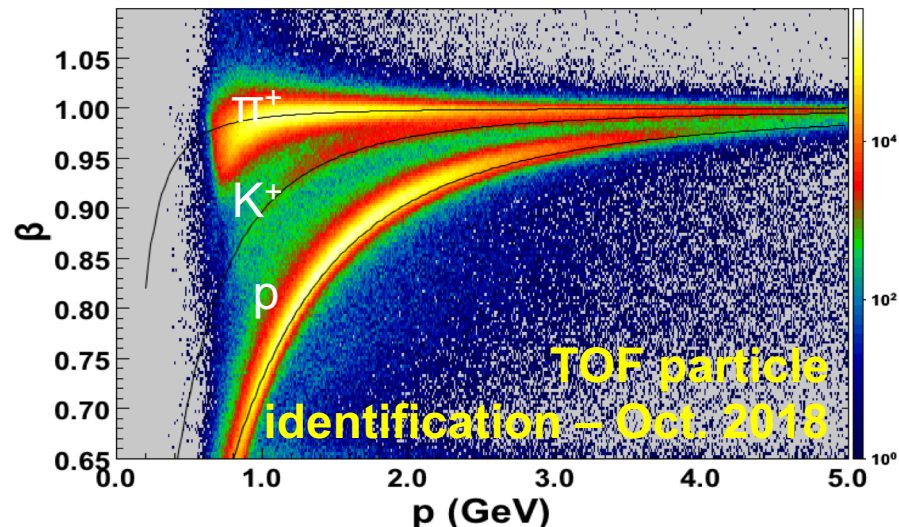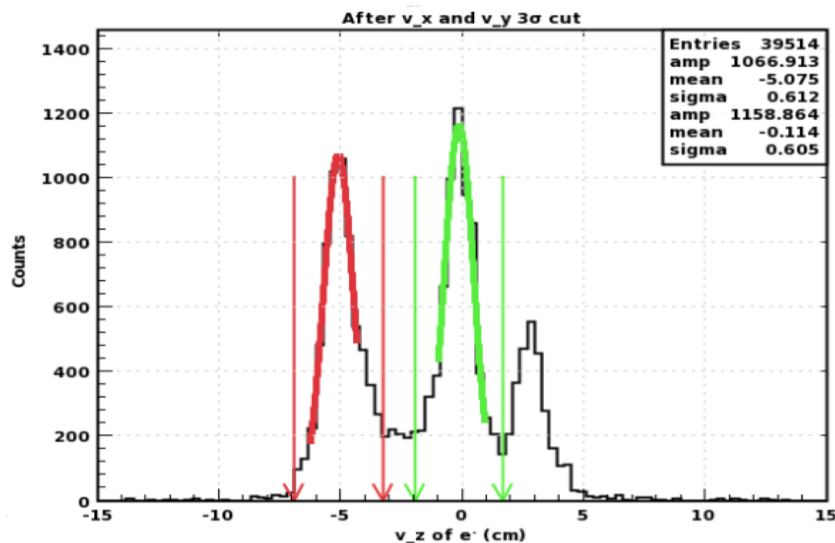
PAC47

- PAC meeting on July 29 – August 2, 2019

- Considering new proposals and run-group additions

- CLAS12:
    - One proposal requesting new beam time:
        - H. Gao et al, "*Search for a φ − N Bound State from φ Production in a Nuclear Medium*"
    - Two run-group additions:
        - RG-B, F. Hauenstein et al., *"Quasi-real Photoproduction of Hadrons on Deuterium"*
        - RG-F (BONUS12), M. Hattawy et al., *"Tagged Neutron DVCS with BONuS12 in CLAS12"*
    - One LOI:
        - O. Hen et al., *"Next Generation Tritium Experiments in CLAS12"*

- Presentations during the PWG Joint session and the plenary session on Friday morning

Authorship of CLAS12 papers

- Discussion on revision of rules on author list composition for CLAS12 papers at November and March meeting:
  - Leading author or pure alphabetical order
- Electronic vote in April to choose between the following options for CLAS12 papers, while rules for papers on 6 GeV data will remain unchanged :
  1. maintain the current rules that establish that the list of authors is to be alphabetical from A to Z, with the leading authors listed first, but limit the number of leading authors to be less than 5 with the possibility of exceptions for special cases that would need to be properly motivated by the leading authors and would be judged on by the Coordinating Committee
  2. adopt a pure alphabetical order from A to Z, which is a common policy of large collaborations
- Option 1 (leading authors with limit to number <5) was selected based on the vote of the Collaboration
- Bylaws at https://www.jlab.org/Hall-B/secure/claschair/CBdocs/Bylaws_of_the_CLAS_Collaboration_Apr2019.pdf updated

Software in the CLAS Collaboration

Proposed charter change:

- Software Working Group (SWG) constituted on the same level as the current three physics working groups
- All CLAS collaborators may be associated with this new group by opting in
- The SWG will elect its chair, the Software Coordinator, who will be part of the CLAS Coordinating Committee (CCC)
- *Text available at: https://www.jlab.org/Hall-B/secure/claschair/software/swg_change*

Vote on the charter change open from June 10 to June 20 (till 23:59 EDT of Thursday):

- If change approved:
  - proceed to establish the membership of the SWG
  - Proceed with the election of the SWG Chair in the summer to have the Software Coordinator in place by September 1st

Chair election

- Election for new Collaboration Chair currently open

- Candidates: William Briscoe and Kyungseon Joo

- Candidates statements available on the vote page at https://clasweb.jlab.org/membership/phonebook.php (JLab CUE login required)

- Presentations in today morning plenary session

- Election, open to all full and term members, will close at 23:59 on Thursday, 20 June, and results announced in Friday morning plenary session

- Many thanks to the nominating committee!

Announcements

- Michael Wood in charge of maintaining the CLAS/CLAS12 thesis database

- Mike substitutes Reinhard Schumacher who has been responsible for this task for many years

    Many thanks to Reinhard !!!

From the CLAS Charter

  6. THESES

  − When a part of the CLAS or CLAS12 activity is to become the thesis work of a student, the student's thesis advisor will so inform the Chairperson of the Coordinating Committee in writing. The Chairperson, or a delegate, will maintain a list of active thesis projects.

New CLAS papers

- 2 new papers accepted by the target journal since last Collaboration Meeting

Paper ID	Paper Title	Lead Author	Contact Person	Target Journal
2018-11	Direct Observation of Proton-Neutron Short-Range Correlation Dominance in Heavy Nuclei	M. Duer	O. Hen	PRL
2018-14	First exclusive Deeply Virtual Compton Scattering measurement off bound nucleon in ^{4}He	M. Hattawy	M. Hattawy	PRL

- 2 papers submitted to the journal
- 4 papers in different review phases

Papers in the pipe…

Submitted to the Journal

Paper ID	Paper Title	Lead Author	Contact Person	Target Journal
2018-12	Toward a Complete Experiment in omega Photoproduction on the Proton: Measurement of the Double-Polarization Observables F,...	P. Roy	V. Crede	PRL
2018-13	Measurement of Nuclear Transparency Ratios for Protons and Neutrons	M. Duer	O. Hen	PRL

In review

Paper Title	Lead Author	Contact Person	Run Group
Study of Color Transparency in ρ^0 Electroproduction off Nuclei	L. El Fassi	L. El Fassi	eg2
Exclusive pi0p electroproduction off protons in resonance region at photon virtualities $0:4 < Q2 < 1GeV2$	N. Markov	K. Joo	e1f
Exploring the Structure of the Proton via Semi-inclusive Pion Electroproduction	N. Harrison	K. Joo	e1f
Probing the strong nuclear interaction at neutron-star densities	A. Schmidt	O. Hen	eg2

Meeting Agenda

- Morning talks dedicated to Hall B, Lab and Accelerator status

- Chair candidates presentations

- Software session this afternoon

- CLAS12 sessions tomorrow

- Physics WG parallel session and Joined session on CLAS12 analysis

- Proposal presentations Thursday and Friday

- Student and post-doc lunch meeting today

- Membership Committee meeting over lunch break tomorrow

- Software workshop on Friday afternoon

- Reception tonight!