CLAS Collaboration Meeting

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for the CLAS Collaboration

July 21-24, 2020

JULY COLLABORATION MEETING

❑ July Collaboration meeting consists of four half-days of remote-only presentations.

❖ Tuesday
- Run group updates (RG-F, RG-B, RG-K)
- Software, Calcom and Taskforce Session

❖ Wednesday
- CLAS12 First Publication
- PWG Session – Deep Processes

❖ Thursday
- PWG Session – Hadron Spectroscopy
- PWG Session – Nuclear Physics

❖ Friday
- PAC48 Proposal Presentations
- Business sessions

CLAS12 Data Processing

- RG-A fall 2018 data cooking has been completed.

- RG-B and RG-K pass-1 reviews have successfully completed and approved.

- 50% of the RG-B spring 2020 data cooking has been completed.

- The RG-K data cooking will start this week.

- By mid-September, we'll have both run group (RG-B and RG-K) data fully cooked.

- Pass-1 Readiness Review Committee:
    S. Stepanyan (Chair), N. Baltzell, L.C. Smith, M. Mirazita, L. Weinstein.

- Pass1 data processing readiness review committee report by S. Stepanyan on Friday

RG-A First Publication

- 1st-level RG-A common analysis begins on August 1, 2020.
    - Review committee: Yordanka Ilieva (Chair), Cole Smith, Sebastian Kuhn, Marco Mirazita.

- 2nd-level analysis note for each paper begins mid-August.
    - Each paper will prepare a 2nd-level analysis note on top of 1st-level analysis note. This will be reviewed within a physics working group (PWG).

- First Weds morning session will be dedicated to RG-A First Publication

PAC48 Proposals

- The PAC48 meeting is scheduled for August 10-14 2020, will be held by remote connection.

- Six CLAS12 proposals submitted: three new proposals and three run-group addition proposals

- First Friday morning session will be dedicated to PAC48 proposal talks.

08:30	**Beam Charge Asymmetries for Deeply Virtual Compton Scattering on the Proton at CLAS12** *30'*	
	Speaker: Eric Voutier (CNRS/IN2P3/IPNO - UPS)	
09:00	**Nuclear TMDS in CLAS12** *25'*	
	Speaker: Raphaël Dupré (IPN Orsay)	
09:25	**Studies of Dihadron Electroproduction in DIS with Longitudinally Polarized Hydrogen and Deuterium Targets** *25'*	
	Speaker: Christopher Dilks (Duke University)	
09:50	**Spin-Dependent Electron Scattering from a Polarized 3He Target in CLAS12** *30'*	
	Speaker: Richard Milner (MIT)	
10:20	**Precision measurements of A = 3 nuclei in Hall B** *30'*	
	Speaker: Axel Schmidt (George Washington University)	
11:00	**Dihadron measurements in electron-nucleus scattering with CLAS12** *25'*	
	Speaker: Miguel Arratia (UC Berkeley)	

Run Group Jeopardy Updates (8 Run Groups)

- The CLAS12 jeopardy internal review committee:
  D. Ireland (Chair), C. Hyde, Z.E. Meziani

  - ❖ RG-B: D. Ireland (reviewer), S. Niccolai (contact)
  - ❖ RG-C: C. Hyde (reviewer), S. Kuhn (contact)
  - ❖ RG-D: Z.E. Meziani (reviewer), L. El Fassi (contact)
  - ❖ RG-E: Z.E. Meziani (reviewer), W. Brooks (contact)
  - ❖ RG-G: Z.E. Meziani (reviewer), W. Brooks (contact)
  - ❖ RG-H: D. Ireland (reviewer), M. Contalbrigo (contact)
  - ❖ RG-K: D. Ireland (reviewer), A. D'Angelo (contact)

- The CLAS12 jeopardy will be held on September 25, 2020.

Remote shifts for CLAS

- JLAB resumption of the on-site operations started under Medcon-5 and likely to remain in that state when RG-F run starts next week.

- Back in March, before halting the operations, because of the travel restrictions (domestic and international) due to Covid-19, we instituted a new shift structure with a single expert in the counting room for the day and swing shifts to mitigate the shortage of available shifters.

- The same limited shift staffing will continue for the upcoming run, shifts are already being assigned with volunteers. However, we will have limited presence of staff and users on site, so no on-call "ghost" shifts.

- Given the situation with Covid-19, we expect that the travel restriction will remain in place for a while. To mitigate the situation with shifts and provide opportunities for collaboration to contribute to the running of the experiment, we are proposing to institute remote shifts for CLAS.

- Presently there are sufficiently well-developed web-based applications to monitor CEBAF and CLAS12 operations from remote. The remote shifter's responsibility will be limited to monitor beam delivery and operations of CLAS12. Control of devices or running DAQ and other applications will not be part of the duties.

- Collaboration can volunteer to participate for a trial run of remote shifts, just need a decent internet and a large enough computer screens to be able to monitor a couple of browsers. Communication with the counting room will be done using a *bluejeans* session.

- Work to setup remote monitoring of the experiment already started, https://wiki.jlab.org/clas12-run/index.php/Run_Group_F#tab=Remote_Shifts, and will be further developed. If successful, we may even think to give a credit for remote shifts (maybe not at the same level as for in person shifts).

Remote shifts for CLAS

- We will start CLAS12 remote shifts as a test.

- Stepan Stepanyan will send the CLAS Collaboration an email with instructions and call for volunteers.

- We could improve the system if needed and make a final decision after testing the system during the upcoming RG-F run.

Summary

- Many things to discuss during the collaboration meeting.

- CLAS Collaboration is making a good progress.

- Let's work together as one collaboration and support each other.