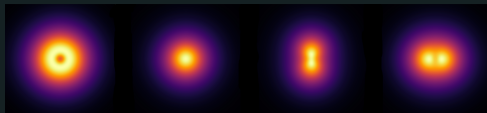


# 9th Workshop of the APS Topical Group on Hadronic Physics

## *Welcome*

Ian Cloët

Argonne National Laboratory



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**Organizers:** Ian Cloët (co-chair), Dave Gaskell (co-chair), Fatma Aslan, Astrid Hiller Blin, Vincent Cheung, Lamiaa El Fassi, Oleg Eyser, Susan Gardner, Tim Hobbs, Garth Huber, Sookhyun Lee, Amy Nicholson, Dennis Perepelitsa, Alexei Prokudin, David Richards, Susan Schadmand, Bjoern Schenke, Ralf Seidl, Phiala Shanahan, Matthew Sievert, Michael Strickland, Richard Trotta, Julia Velkovska, Ramona Vogt

13–16 April 2021

# Welcome to GHP 2021

- APS Topical Group on Hadronic Physics (GHP) is dedicated to the advancement and dissemination of knowledge related to QCD and hadron physics [<https://engage.aps.org/ghp/home>]
- It is an exciting time for hadron physics
  - Comprehensive ongoing programs at Jefferson Lab and RHIC
  - Electron-Ion Collider has CD-0 and CD-1 is expected soon
  - Ongoing and planned hadron physics programs at facilities around the world, e.g., Fermilab, BES-III, BELLE-II, CERN, etc.
- We have an excellent program of talks and discussion:
  - 19 plenary and around 140 parallel talks that cover many aspects of hadron physics
  - GHP Business Meeting (3:30pm–5:30pm Thursday) with update reports from the DOE, NSF, JLab, RHIC, and the GHP
  - GHP Prize Session (Fellows and Dissertation Award) for Friday morning plenary session
  - approximately 230 registered participants

## **GHP21** Ninth Workshop of the APS Topical Group on Hadronic Physics

April 13-16

**VIRTUAL**

### **Topics :**

- Electroweak probes
- Extreme matter and neutron star collisions
- Hadrons in nuclei
- Hadron spectroscopy
- Heavy flavor and jet production
- Neutrino-hadron interactions
- New physics and discrete symmetry violation in hadron physics
- Nonequilibrium dynamics
- Nucleon and nuclear spin physics
- Physics of the quark-gluon plasma
- Quantum information for hadron physics
- Small systems and collectivity
- Transverse and longitudinal structure of hadrons
- Ultrapерipheral collisions

### **Organizing Committee:**

- |                                       |                                 |
|---------------------------------------|---------------------------------|
| • Fatma Aslan (JLab)                  | • Dennis Perepelitsa (Boulder)  |
| • Vincent Cheung (UC Davis)           | • David Richards (JLab)         |
| • Ian Cloet (ANL, co-chair)           | • Susan Schadmand (Jülich)      |
| • Lamiaa El Fassi (Mississippi State) | • Bjoern Schenke (BNL)          |
| • Oleg Eysen (BNL)                    | • Ralf Seidl (RIKEN)            |
| • Susan Gardner (Kentucky)            | • Phiala Shanahan (MIT)         |
| • Dave Gaskell (JLab, co-chair)       | • Matthew Sievert (NMSU)        |
| • Timothy Hobbs (SMU)                 | • Mike Strickland (Kent State)  |
| • Garth Huber (Regina)                | • Richard Trotta (CUA)          |
| • Sookhyun Lee (Michigan)             | • Ramona Vogt (LLNL & UC Davis) |
| • Amy Nicholson (North Carolina)      |                                 |

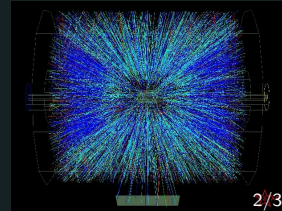
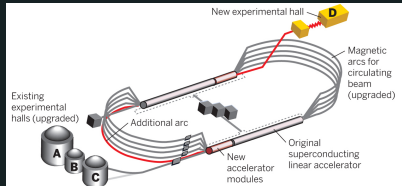
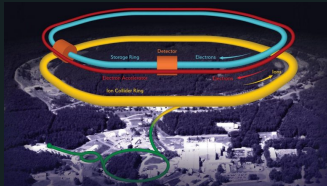
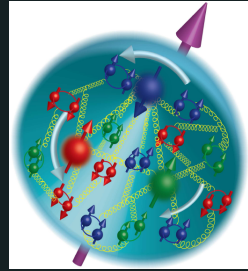
Workshop website: <https://www.jlab.org/indico/event/412>

Workshop email: [ghp2021@anl.gov](mailto:ghp2021@anl.gov)

By Andre m - Own work, CC BY-SA 3.0, <https://commons.wikimedia.org/w/index.php?curid=71775546>

# Benefits of GHP Membership

- The GHP is the dedicated organization within the APS that advocates for the science of QCD and hadron physics
- Effectiveness of this advocacy and its impact is strongly associated with the number of GHP members — membership determines:
  - Number APS Fellows the GHP can nominate (250 members  $\simeq$  1 APS Fellow/year)
  - Number of invited parallel talks & GHP sorting categories at APS April Meeting
- GHP membership directly supports
  - GHP Meeting, GHP sessions at APS April Meeting, APS Fellows, Dissertation award
- GHP helps reward and highlight the world-class research in our field — important for hires, grants, and promotions in our field
  - Please consider joining the GHP — \$10/yr with APS membership

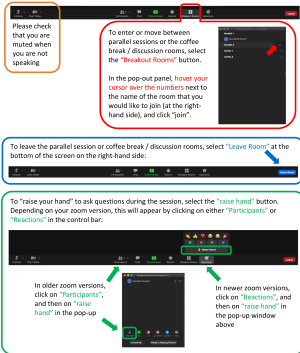


# Meeting Details

- Meeting will adhere to Code of Conduct for APS Meetings (see indico webpage) [<https://indico.jlab.org/event/412/>]
- Please contact organizers if you have any concerns: [ghp2021@anl.gov](mailto:ghp2021@anl.gov)
- Plenary sessions held in the main room and parallel sessions in breakout rooms
- Zoom instructions and general info available on indico page, e.g. [GHP2021\\_zoom\\_instructions.pdf](#)

**GHP2021 ZOOM NAVIGATION**

After joining the zoom conference, you will be in the plenary room by default. To join other sessions, use the controls at the bottom of the screen:



Please check that you are muted when you are not speaking

To enter or move between parallel sessions or the coffee break / discussion rooms, select the "Breakout Rooms" button.

In the pop-out panel, hover your cursor over the numbers next to the name of the room that you would like to join (at the right-hand side), and click "Join".

To leave the parallel session or coffee break / discussion rooms, select "Leave Room" at the bottom of the screen on the right-hand side:

To "raise your hand" to ask questions during the session, select the "raise hand" button. Depending on your zoom version, this will appear by clicking on either "Participants" or "Reactions" in the control bar:

In older zoom versions, click on "Participants", and then on "raise hand" in the pop-up

In newer zoom versions, click on "Reactions", and then on "raise hand" in the pop-up window above



Starts 13 Apr 2021, 10:30

Ends 16 Apr 2021, 18:00

US/Eastern



Ian Cloët  
Dave Gaskell



Workshop Poster  
Zoom Instructions



Breakout Rooms - In Progress

- ✓ Exotic Searches in Meson Photoproduction [Join](#)
- ✓ Generalized Parton Distributions [Join](#)
- ✓ Small Systems and Collectivity [Join](#)
- ✓ Symmetry Violation & New Physics [Join](#)
- ✓ Unraveling the Nucleon's Collinear Structure [Join](#)
- ✓ Baryon Structure [Join](#)
- ✓ Meson Spectrum in Meson-Scattering Processes [Join](#)
- ✓ New approaches to PDFs at and beyond Leading Twist [Join](#)
- ✓ Pion and Kaon Structure [Join](#)
- ✓ Quarkonium Production from pp to AA [Join](#)
- ✓ Discussion Room 1 [Join](#)
- ✓ Discussion Room 2 [Join](#)
- ✓ Discussion Room 3 [Join](#)
- ✓ Discussion Room 4 [Join](#)
- ✓ Discussion Room 5 [Join](#)
- ✓ Discussion Room 6 [Join](#)
- ✓ Discussion Room 7 [Join](#)
- ✓ Discussion Room 8 [Join](#)
- ✓ Discussion Room 9 [Join](#)
- ✓ Discussion Room 10 [Join](#)

Broadcast Message to All [Close All Rooms](#)