



Origins of the GHP



The Early Days

~1999

Nathan Isgur wants to have a 'hadronic outlook' meeting



Ted Barnes and I discuss lack of visibility in hadronic physics



Brad Tippens (DOE, NP); P.K. Williams (DOE, HEP), Brad Keister (NSF), Joe McGrory (DOE/ORNL) all mention organizing, setting vision, etc in hadronic physics



Nov 1999, Sanderling Meeting



Key Issues in Hadronic Physics

Abstract

A group of fifty physicists met in Duck, NC, Nov. 6-9 to discuss the current status and future goals of hadronic physics. The main purpose of the meeting was to define the field by identifying its key issues, challenges, and opportunities. The conclusions, incorporating considerable input from the community at large, are presented in this white paper. [📄](https://arxiv.org/pdf/hep-ph/0012238.pdf)

<https://arxiv.org/pdf/hep-ph/0012238.pdf>

Nov 1999, Sanderling Meeting

Special session: Shuryak, Negele, and others worry about balkanization...

- community visibility, coherence
- funding
- publishing
- committee representation / democratization
- APS representation
- meetings & schools
- future outlook: labs & funding

Bj: "we need to stop wringing our hands and get on with it." Suggests forming an APS 'unit'.

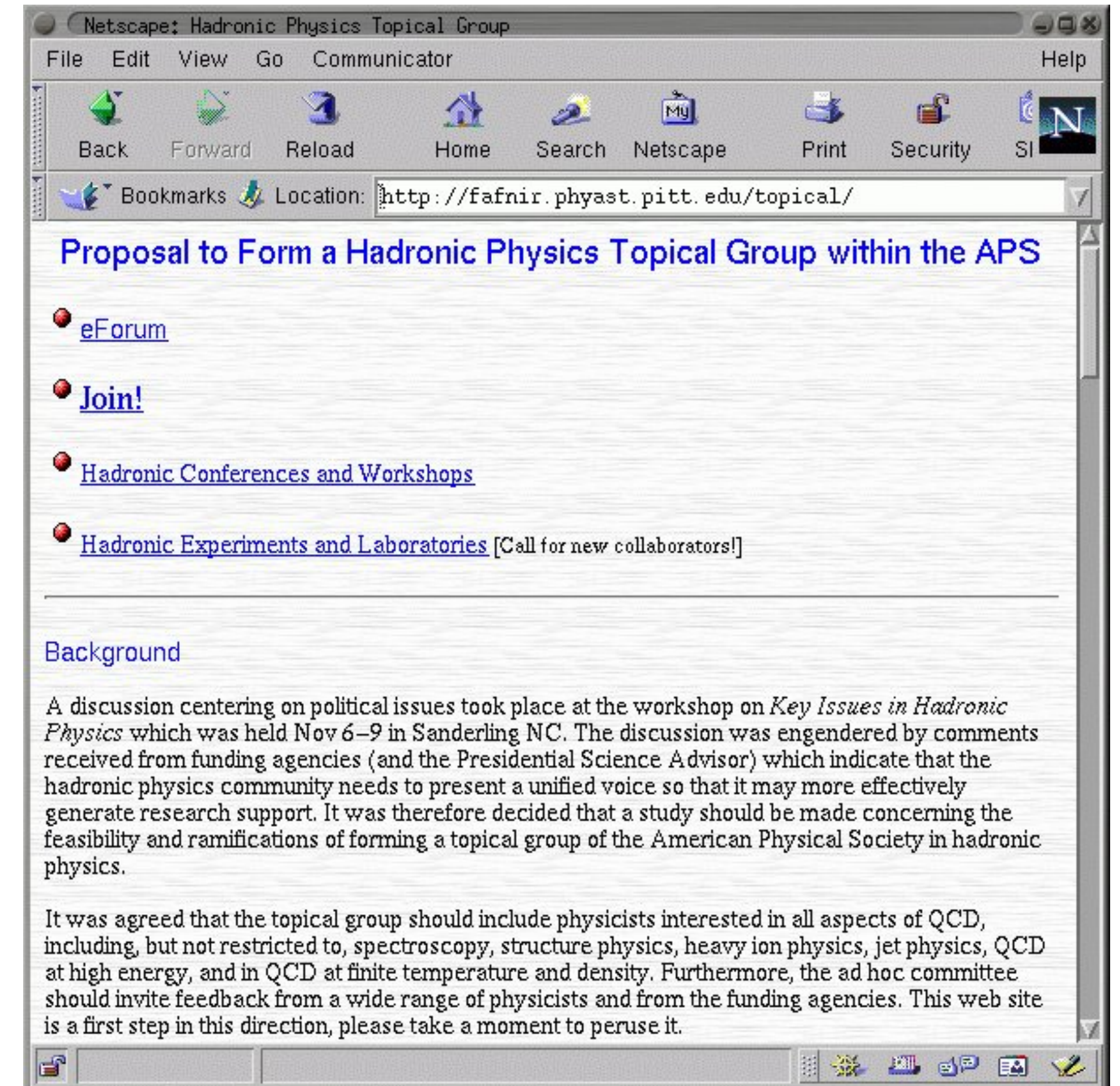


Organizing

The first year

Alex Dzierba & I form an ad hoc committee, Bill Zajc joins (RHIC)

12.11.2000 create web site / need 200 APS members to petition for the creation of a TG



The first year

Bj: 'Issues in Hadronic Physics' at APS April meeting, DC.

30.1.2001 Alex talks with Judy Franz and Alan Chodos (APS Executive Office) about the TG. Their concerns appear to center on fractionalization of the APS and not bringing "new energy" into the APS. Apparently they had problems with another TG which fought with its "parent" division. Alex reassured them that we will be responsible citizens. Bj talks with Helen Quinn (APS general councillor).

mailings to DNP, meetings, user communities...



"200 e-mails have been received in response to a mailing to people known to the organizers. 196 are either very positive or positive, while 4 urge careful thought and express concerns about splitting the community."

Intersections 2000: What's New in Hadron Physics *

James D. Bjorken

*Stanford Linear Accelerator Center
Stanford University, Stanford, California 95409*

Abstract. Hadron physics is that part of QCD dealing with hadron structure and vacuum structure, almost all of which is nonperturbative in nature. Some of the open problems in this field are outlined. We argue that hadron physics is a distinct subfield, no longer within particle physics, and not at all the same as classical nuclear physics. We believe that it needs to be better organized, and that a first step in doing so might be to establish hadron physics as a new division within the American Physical Society.

I think that a necessary condition for the situation to change is that the hadron physics community organizes itself better. It must not only identify itself and exhibit some political strength, but it must also define better what hadron physics comprises, what its fundamental scientific goals are, what the experimental programs are that deserve the greatest attention, and what the basic challenges to theory are. Since organizational changes within funding agencies and advisory structures are likely to be slow, it seems to me that the best opportunity for getting things going might be within the professional societies. In particular there perhaps should be a Division of Hadron Physics within the American Physical Society. It might provide the venue and organizational structures for achieving the above goals, and provide a basis for going further if, as I suspect is the case, it is deemed necessary to do so.

But most fundamental of all is that there exists a vital community of experimental and theoretical physicists just doing hadron physics, no matter what the obstacles. This meeting has been a splendid example that there are at present plenty of people doing just that. We should do everything we can to not only keep this field healthy, but to strengthen it. The scientific challenges will take quite some time to overcome, and in the meantime we must make every effort to acquire the means to overcome them.

DRAFT

November 2000

bj

Why Hadron Physics?

A natural starting point for improving this situation is within the professional societies. At present there is the beginning of an initiative to create a Topical Group in Hadron Physics in the American Physical Society, with the possibility of this group to grow into a division in the longer run. This would seem to be an appropriate venue for airing the problems and creating progress, especially with respect to serving the interests of the younger generation.

The future of hadron physics should be a bright one. Important science is there, waiting to be done. Hard work, both scientific and political, will be necessary for it to be properly served.

Pushback from APS

1.2.01 Hamish Robertson makes contact. Suggests that balkanization is not a good thing and that the DNP exec is willing to listen.

3.2.01 Edward Shuryak writes to say that Dennis Kovar (DOE) knows nothing about the TG effort and wonders why we are bothering.

Brad Tippens is asked by DOE officials, "Are there 50 hadronic physicists?"

2/7/2001>Meeting to discuss Topical Group on Hadronic Physics
>Present: Alex Dzierba, Joel Moss, Hamish Robertson, Eric Swanson, Bill Zajc
>
>Alex began with a description of the problem facing the hadronic
>physicists within DNP, DPF and elsewhere. It is a community without
>a home. HEP has largely abandoned this area, as has been deplored
>by Bjorken and Heppelman. An initiative arose at Sanderling,
>encouraged by both Brad Tippens (DOE NP) and PK Williams (DOE HEP),
>to **try to get more visibility and clout for this subdiscipline.**
>**Otherwise arguing for funding gets increasingly difficult.**

16.11.01 phone George Trilling (APS Pres). He expresses doubts but is won over.

Centrifugal Forces Spawn New APS Units

Editor's note: This is the second of two articles by Jordan Raddick focusing on centrifugal tendencies within APS and the physics community. Last month's article dealt with issues related to meetings; this article concerns the formation of new APS units.

In last month's Back Page article of *APS News*, outgoing President James S. Langer wrote about "centrifugal forces" within the Society. He worried that APS was becoming decentralized. In the past five years, four new topical groups have formed, and some physicists have talked about forming even more in the future. The groups' organizers say that the new groups offer a home for research areas not adequately represented within the present structure of APS, or for emerging research that requires interdisciplinary collaboration. Judy Franz, APS Executive Officer, thinks new topical groups can bring added vitality to APS if they reach outward into new areas and attract new members to APS.

Last November, about 50 physicists interested in the strong interactions gathered on the outer banks of North Carolina for a workshop called *Key Issues in Hadron Physics*. The workshop set research goals for the community and created a list of research projects and recommendations to distribute to other physicists. On the meeting's day off, Eric Swanson, of the University of Pittsburgh, asked participants to hold a special session discussing how to increase hadron physics's visibility in the physics community at large. "[The community] needs an identity," Swanson said. Today, with nuclear physicists concentrating on the atomic nucleus and particle physics pushing on to higher-energy phenomena such as the Higgs particle, "hadronic physics. should have split off to form its own niche in physics. It hasn't done that yet," Swanson said. Swanson said that the community sometimes has difficulty presenting its case to funding agencies. "Because we don't have a niche, people tend to think that we don't exist," he said.

The APS Topical Group on Hadronic Physics

Studying the strong force? You need a strong community.

By Abigail Dove | August 8, 2022



Credit: Maximilien Brice/CERN

The Large Hadron Collider in Geneva, Switzerland, smashes subatomic particles called hadrons—mostly protons, a type of hadron—together at extraordinarily high speeds.

It's a physics 101 principle: The strong force binds quarks and gluons together into the protons, neutrons, and nuclei that form

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GHP is formed

8.11.01 APS confirms 200 APS members! Ken Cole and I fix some tricky points with the bylaws. Ed Gerjuoy agrees to present the TG case if necessary.

18.11.01 made presentation to APS

20.11.01 Hear from J. Franz that we are indeed a TG.

4.2.02 talk to Alan Chodos, extract promise of one fellow for the GHP

24.1.03 Membership stands at 195.

11.03 first elections

Edward Gerjuoy

The accomplished theoretical physicist also had a successful career in law.

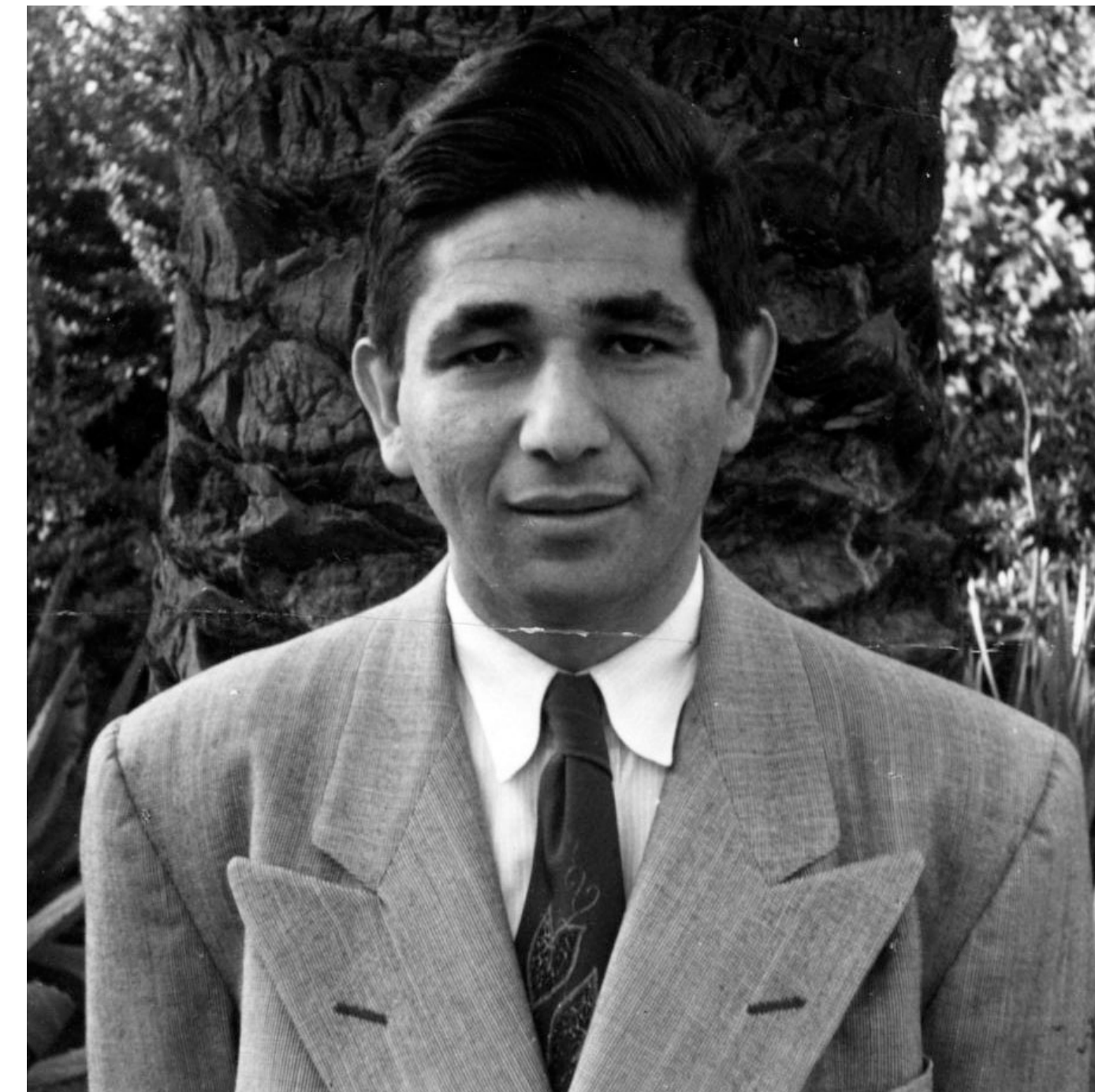
Arthur B. Kosowsky [kosowsky@pitt.edu]

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COMMENTS

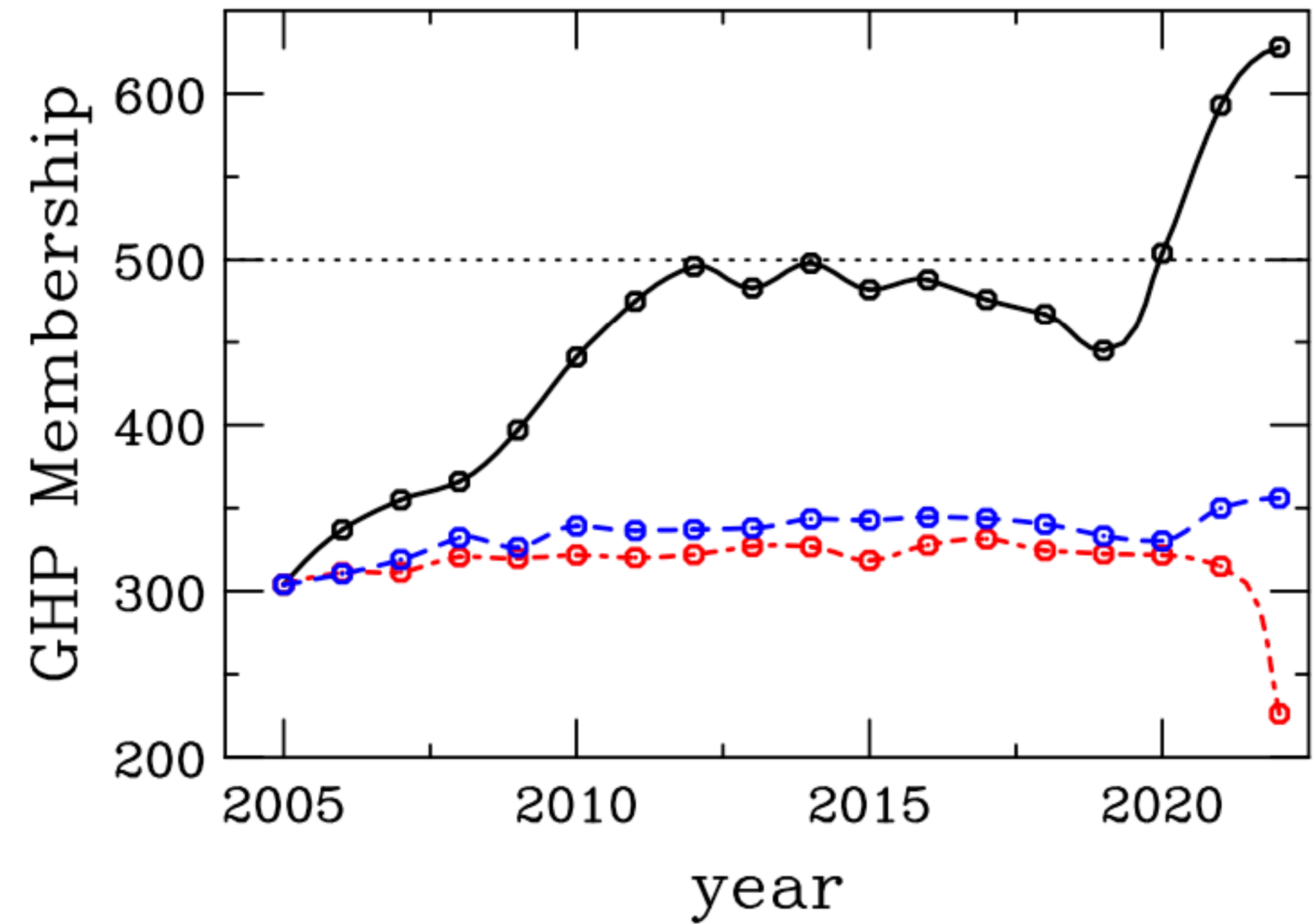


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Edward Gerjuoy, who had a long and varied career as a theoretical physicist, lawyer, and human rights activist, died on 31 January 2018 in Pittsburgh, a few months shy of his 100th birthday. Ed was born in Brooklyn, New York to an immigrant family and attended Thomas Jefferson High School, where he captained the math team. He then went to City College beginning at age 15, where he said “the teachers were terrible and the students were fantastic.” He majored in both physics and



Membership



~ 20 countries

Figure 1: Solid line – GHP membership, absolute value, with “2022” representing the APS Official Count at the beginning of 2022; dashed – DNP membership normalized to GHP’s value in 2005 (2812 → 304); and dot-dashed – DPF membership normalized to GHP’s 2005 value (2448 → 304).

Fellows

Andrei Alexandru [2022]

The George Washington University

Citation: For multiple advances in the study of hadrons in terms of their quark and gluon constituents using lattice QCD. In particular, for the study of the QCD spectrum and the development of techniques to bypass the sign problem.

Renee Fatemi [2022]

University of Kentucky

Citation: For contributions to the understanding of the spin and momentum structure of quarks and gluons in the proton through the novel development and application of jet reconstruction tools in polarized proton collisions.

Christina Markert [2021]

University of Texas, Austin

Citation: For scientific leadership of experimental studies of hadronic resonances and their role as probes of the dynamics of relativistic heavy-ion collisions and chiral symmetry restoration in deconfined QCD matter.

Swagato Mukherjee [2021]

Brookhaven National Laboratory

Citation: For seminal work employing ab initio lattice quantum chromodynamics (QCD) to uncover fundamental information on the QCD phase diagram at finite temperatures and baryon density, and for the creative use of these methods to provide limits on the location of the critical point in heavy-ion collisions.

Barbara Pasquini [2020]

University of Pavia

Citation: For important work developing and improving theoretical tools, including dispersion relations, light-front models, and Wigner distributions which increase the sensitivity of both low- and high-energy experiments such as Compton scattering and tomography, to the fundamental structure of hadrons.

David Richards [2020]

Thomas Jefferson National Accelerator Facility

Citation: For seminal contributions to the understanding of hadron properties in lattice quantum chromodynamics, especially in the areas of hadron spectroscopy and hadron structure.

Daniel Boer [2019]

University of Groningen

Citation: For contributions toward the understanding of the spin and momentum structure of quarks and gluons in nucleons, in particular those relevant in single spin asymmetries, and for studies of the color glass condensate phase in quantum chromodynamics.

Oscar A. Rondon-Aramayo [2018]

University of Virginia

Citation: For pioneering contributions to the study of quark-gluon correlations in nucleons using inelastic scattering of polarized electrons off transverse polarized proton and deuteron targets to measure the nucleon transverse spin asymmetries and the associated structure function g_T and its moments.

Moskov Amarian [2018]

Old Dominion University

Citation: For pioneering work on Deeply Virtual Compton Scattering and Gluon Polarization with the HERMES experiment at DESY, and a creative and broad program in hadronic physics at HERMES and Jefferson Lab.

Kawtar Hafidi [2017]

Argonne National Laboratory

Citation: For leadership of experimental programs using the nucleus to probe the nature of QCD at HERMES, the Thomas Jefferson National Accelerator Facility, and the Electron Ion Collider, exceptional service to the field of hadronic physics and remarkable and widely-recognized mentoring and outreach activities.

Peter Bosted [2016]

Thomas Jefferson National Accelerator Facility

Citation: For invaluable contributions to unraveling the structure of the proton and neutron via elastic, inelastic, and spin-dependent electron scattering from nucleons and nuclei.

Maarten F. Golterman [2016]

San Francisco State University

Citation: For important contributions to hadronic physics and lattice gauge theory, including the properties of staggered fermions, chiral effective theories, large-N methods, duality, localization, and hadronic contributions to electromagnetic processes.

Richard Lebed [2015]

Arizona State University

Citation: For contributions to the understanding of the properties of hadrons and, in particular, for the application of techniques of large N QCD to the physics of hadrons.

Xiaochao Zheng [2015]

University of Virginia

Citation: For advancing the measurement of parity violating asymmetry in electron-nucleon deep inelastic scattering.

Colin Morningstar [2014]

Carnegie Mellon University

Citation: For his outstanding contributions to understand the strong force and its hadron spectroscopy based on the fundamental theory of Quantum Chromodynamics.

Stepan Stepanyan [2014]

Jefferson Laboratory

Citation: For pioneering research to access generalized parton distributions through deeply virtual exclusive processes and the 3-dimensional imaging of the nucleon's quark structure, and for the development of innovative experimental methods and apparatus in medium energy hadron physics.

Boleslaw Wyslouch [2013]

Massachusetts Institute of Technology

Citation: For his leadership role in the PHOBOS experiment and in creating a world-class heavy ion research program within the CMS Collaboration at the LHC.

Robert D. Mawhinney [2013]

Columbia University

Citation: For his pioneering contributions using lattice techniques to the quantitative description and understanding of the physics of quarks and their role in the weak interactions and QCD phase diagram.

John Arrington [2012]

Argonne National Laboratory

Citation: For his extensive and systematic work in understanding the electromagnetic form factors of the nucleon and the role of short distance phenomena in nuclei

Nora Brambilla [2012]

Tech Univ Muenchen

Citation: For contributions to the theory of heavy-quark-antiquark systems, including the development of new effective field theories, and for contributions to the field of heavy-quarkonium physics through the founding and leadership of the Quarkonium Working Group

Harut Avagyan [2011]

Thomas Jefferson National Accelerator Facility

Citation: For pioneering studies of Single Spin Asymmetries in electroproduction of hadrons in deep inelastic scattering, providing access to orbital motion of quarks.

Chueng-Ryong Ji [2011]

North Carolina State University

Citation: For his remarkable and pioneering contributions in QCD applying light-front dynamics to fundamental aspects of hadron physics, including spectroscopy, wave functions, and form factors.

Ian Balitsky [2010]

Thomas Jefferson National Accelerator Facility

Citation: For pioneering applications of quantum chromodynamics (QCD) to hadron physics, in particular, for development of light-cone QCD sum rules and contributions resulted in Balitsky-Fadin-Kuraev-Lipatov (BFKL) and Balitsky-Kovchegov (BK) equations

Eric Swanson [2010]

University of Pittsburgh

Citation: For contributions to the theory of hadron spectroscopy, especially in the areas of charm-quark mesons, gluonic excitations, and mesonic molecules.

Bogdan B. Wojtsekhowski [2009]

Thomas Jefferson National Accelerator Facility

Citation: For outstanding contributions to instrumentation at Jefferson Lab and his leadership role in studies of nucleon structure, particularly real Compton scattering on the proton and the neutron charge form factor.

Jian-Ping Chen [2008]

Thomas Jefferson National Accelerator Facility

Citation: For his contributions to understanding the spin structure of the neutron, through the use of a polarized Helium-3 target.

Sebastian Kuhn [2007]

Old Dominion University

Citation: For his leadership on measurements of the nucleon structure functions, in particular in the non-perturbative and valence region.

Keith A. Griffioen [2006]

College of William & Mary

Citation: For definitive experimental studies of the spin structure of the proton and neutron, both in the perturbative, deep-inelastic regime, and in the non-perturbative resonance region.

Wolodymyr Melnitchouk [2006]

Thomas Jefferson National Accelerator Facility

Citation: For his theoretical and phenomenological contributions to the study of the quark structure of nucleons and nuclei, in particular that underpinning the nuclear physics program at Jefferson Lab.

Charles Earl Hyde-Wright [2005]

Old Dominion University

Citation: For the development of Virtual Compton Scattering as a probe of the structure of the Nucleon.

Matthias Burkardt [2004]

New Mexico State University

Citation: For his contributions towards understanding the connection between generalized parton distributions and the distribution of partons in impact parameter space and his contributions to light-cone QCD.

Ted Barnes [2003]

Oak Ridge National Laboratory

Citation: For his seminal work on hybrid and exotic hadrons and his contributions to hadron spectroscopy and to the quantum properties of spin systems.

Anthony G. Williams [2002]

University of Adelaide

Citation: For pioneering studies of the nonperturbative behavior of quarks and gluons using Dyson-Schwinger equations, phenomenological quark models, and lattice gauge calculations.

Meetings

Tied to APS by Winston Roberts for 2009 meeting



Second Meeting of the APS Topical Group on Hadronic Physics



October 22-24, 2006
Opryland Resort, Nashville Tennessee

Topics

light quark mesons
heavy quark mesons
baryons
glueballs, hybrids, and multiquarks
lattice gauge theory
effective lagrangians
quark gluon liquid
hadronic structure
electroweak physics
nucleon spin physics
future facilities

Links

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First Meeting of the
APS Topical Group on Hadronic Physics
24 - 26 October 2004 - Fermilab

GHP 2004

Topics Include

- Light / Heavy Quark Mesons
- Glueballs, Hybrids, and Multiquarks
- Baryons
- Lattice Gauge Theory
- Effective Lagrangians
- Quark Models
- RHIC
- Hadronic Structure
- Future Facilities

24 - 26 October 2004
Fermilab - Batavia, Illinois

Local Organizing Committee

Ted Barnes (Chair)	ORNL / UT Knoxville, TN
Steve Godfrey	Carleton University, Canada
Alexey Petrov	Wayne State University, MI
Cynthia Sazama	FNAL
Eric Swanson	University of Pittsburgh, PA
Suzanne Weber	FNAL

Advisory / Program Committee

Frank Close	Oxford, UK
Alex Dzierba	Indiana University, IN
Estia Eichten	FNAL
Wally Meitichouk	Jefferson Lab
Chris Quigg	FNAL
Anthony Thomas	Adelaide, Australia / Jefferson Lab
William Zajc	Columbia University, NY

Contact: Cynthia Sazama, sazama@fnal.gov
Website: <http://fafnir.phyast.pitt.edu/GHPM/>

GHP'11
Fourth Workshop of the APS Topical Group on Hadronic Physics

April 27-29
Anaheim, CA

The workshop immediately precedes the 2011 April APS meeting and will take place at the same venue, the Hyatt Regency Orange County, adjacent to Anaheim and one mile from Disneyland. The GHP workshop offers a great opportunity for nuclear and particle physicists to meet and discuss their common interests in hadronic interactions.

Topics to be discussed:

- Light and heavy quark mesons and baryons
- Exotic hadrons
- Lattice QCD
- Nucleon spin physics and hadronic structure
- Physics of the quark-gluon plasma
- AdS/QFT, novel phenomena
- Saturation (small- x) physics
- Future facilities

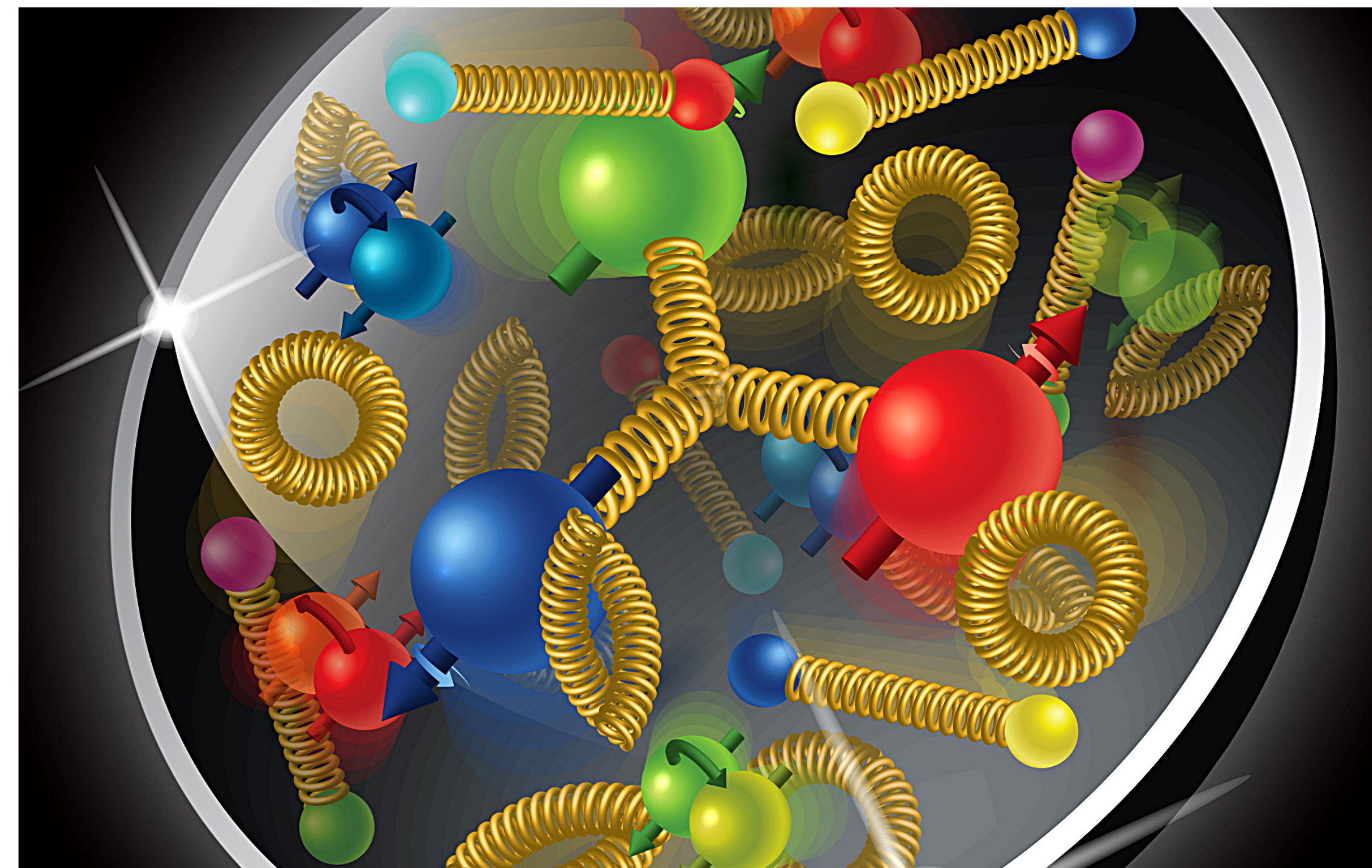
Organizing committee: Ron Gilman (Rutgers, co-chair), Ramona Vogt (LLNL and UC Davis, co-chair); John Arrington (ANL); Stan Brodsky (SLAC); Volker Crede (Florida State); Abhay Deshpande (Stony Brook); Robert Edwards (JLab); Chueng Ji (North Carolina State); Peter Petreczky (BNL); Craig Roberts (ANL); Sevil Salur (UC Davis and Rutgers); Susan Schadmand (FZ-Juelich); Karl Sliker (U New Hampshire)

Workshop website: <http://sites.google.com/site/ghpworkshop>

Workshop email: 2011ghp@googlemail.com

Workshop Hotel: Hyatt Regency Orange County, 11999 Harbor Blvd, Garden Grove, CA
<http://resweb.passkey.com/go/apsaprilmeeting/>

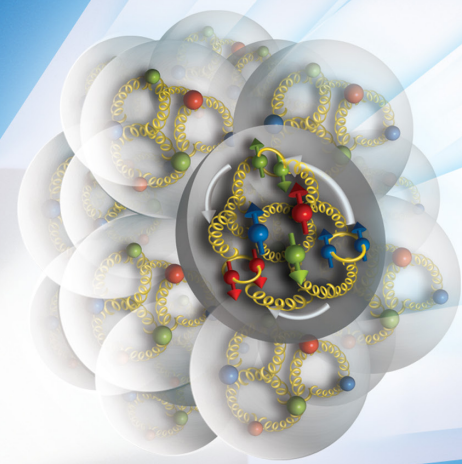
APS Topical Group on Hadronic Physics Meeting, April
28-30, 2009, Denver, CO



GHP2015

6th Workshop of the
APS Topical Group
on Hadronic Physics

April 8-10, 2015
Baltimore, MD



The Topical Group on Hadronic Physics (GHP) workshop provides a great opportunity for nuclear and particle physicists to meet and discuss their common interests in hadronic interactions. The workshop immediately precedes the APS April Meeting 2015 and will take place at the same venue.

Topics to be Discussed

- Light and heavy quark mesons & baryons
- Exotic hadrons
- Nucleon spin physics & hadronic structure
- AdS/QFT, novel phenomena
- Future facilities
- Lattice QCD
- Physics of the quark-gluon plasma
- Physics of gluon saturation

Organizers

Christine Aidala (University of Michigan)
John Arrington (ANL)
Matthias Burkardt (New Mexico State Univ)
Ken Hicks (Ohio University)
Peter Petreczky (BNL, Chair)
Craig Roberts (ANL)
Susan Schadmand (Forschungszentrum Juelich)
Raju Venugopalan (BNL, Co-chair)
Ramona Vogt (LLNL/UC Davies)
Feng Yuan (LBNL)

Contact: ghpworkshops@gmail.com

<http://www.aps.org/meetings/april/events/ghpworkshop.cfm>

Venue: Hilton Baltimore Inner Harbor, Baltimore, Maryland

BROOKHAVEN
NATIONAL LABORATORY

Jefferson Lab
Thomas Jefferson National Accelerator Facility

GHP13

Fifth Workshop of the APS Topical Group on Hadronic Physics

April 10-12, 2013
Denver, CO

Topics to be Discussed

- Light and heavy quark mesons and baryons
- Exotic hadrons
- Nucleon spin physics and hadronic structure
- AdS/QFT, novel phenomena
- Future facilities
- Lattice QCD
- Physics of the quark-gluon plasma
- Physics of gluon saturation

The workshop immediately precedes the 2013 April APS meeting and will take place at the same venue, the Sheraton Denver Downtown Hotel, on the downtown pedestrian mall and near several museums. The GHP workshop provides a great opportunity for nuclear and particle physicists to meet and discuss their common interests in hadronic interactions.

Organizing committee

John Arrington (ANL, co-chair), Matthias Burkardt (New Mexico State, co-chair), Ramona Vogt (LLNL and UC Davis), Peter Petreczky (BNL), Craig Roberts (ANL), Matthias Grosse-Perdekamp (MUC), Susan Schadmand (FZ-Juelich), Jianwei Liu (BNL), Mike Leitch (LANS), Volker Crede (Florida State), Wally Melnitchouk (JLab), Peter Tandy (Kent State)

Website: <https://sites.google.com/site/ghpworkshop/>

Email: ghpworkshops@gmail.com

Hotel: Sheraton Denver Downtown Hotel

1550 Court Place, Denver, CO

<http://www.sheratondenverdowntown.com>

Jefferson Lab
Thomas Jefferson National Accelerator Facility

BROOKHAVEN
NATIONAL LABORATORY

8th Workshop of the APS Topical Group on Hadronic Physics

GHP 2019

APRIL 10-12, 2019 • DENVER, CO

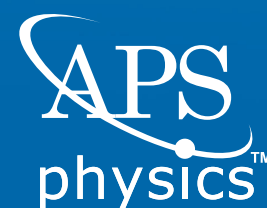
THE GHP WORKSHOP PROVIDES GREAT OPPORTUNITIES FOR NUCLEAR AND PARTICLE PHYSICISTS TO MEET AND DISCUSS THEIR COMMON INTERESTS IN HADRONIC INTERACTIONS.

TOPICS INCLUDE:

- Light- and heavy-quark mesons & baryons
- Exotic hadrons
- Transverse and longitudinal structure of hadrons
- Hadron tomography and hadronization
- Neutrino-hadron interactions
- QCD effects in nuclei
- Physics of the quark-gluon plasma
- Physics of gluon saturation
- EFT approaches in hadron physics
- Lattice QCD and other non-perturbative approaches
- Future facilities

PROGRAM COMMITTEE:

- Abhay Deshpande (Stony Brook University)
- Tanja Horn (Catholic Univ of America)
- Garth Huber (University of Regina) (co-chair)
- Spencer Klein (Lawrence Berkeley National Lab)
- Swagato Mukherjee (Brookhaven National Lab)
- Paul Reimer (Argonne National Lab)
- David Richards (Jefferson Lab) (chair)
- Susan Schadmand (Forschungszentrum Juelich)
- Anne Sickles (University of Illinois at Urbana-Champaign)
- Ramona Vogt (Lawrence Livermore National Lab and UC Davis)



The workshop immediately precedes the APS April Meeting 2019 and will take place at the same venue.



contact: ghpworkshops@gmail.com

www.aps.org/units/ghp/meetings/meeting.cfm?name=GHP19



GHP2017

February 1-3, 2017
Washington, DC

7th Workshop of the APS Topical Group on Hadronic Physics

Contact: ghpworkshops@gmail.com
<https://www.aps.org/meetings/meeting.cfm?name=GHP17>
Venue: Marriott Wardman Park, Washington, DC

The Topical Group on Hadronic Physics (GHP) workshop provides a great opportunity for nuclear and particle physicists to meet and discuss their common interests in hadronic interactions. The workshop immediately follows the APS February Meeting 2017 and will take place at the same venue.

Organizers

Ian Cloët,
Argonne
National Lab

Sean Fleming,
University of
Arizona

Leonard Gamberg,
Penn State
University

Tanja Horn,
Catholic University
of America (chair)

Huey-Wen Lin,
Michigan State
University

Peter Petreczky,
Brookhaven
National Lab

Paul Reimer,
Argonne National
Lab (chair)

Susan Schadmand,
Forschungszentrum
Juelich

Raju Venugopalan,
Brookhaven
National Lab

Ramona Vogt,
Lawrence Livermore
National Lab and
University of
California at Davis

Topics to be Discussed

Light- and heavy-quark
mesons & baryons

Exotic hadrons

Hadron tomography
and hadronization

QCD effects in nuclei

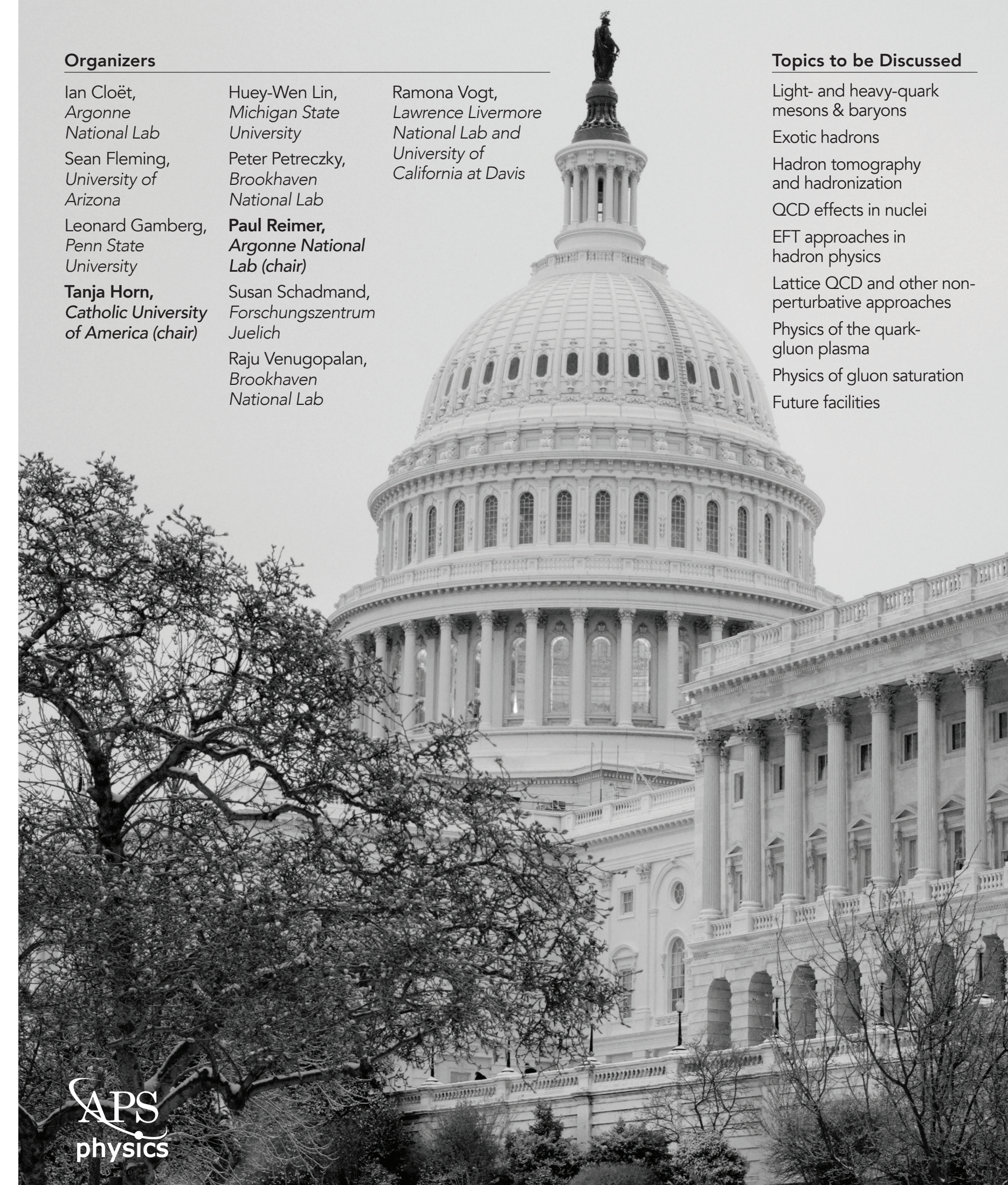
EFT approaches in
hadron physics

Lattice QCD and other non-
perturbative approaches

Physics of the quark-
gluon plasma

Physics of gluon saturation

Future facilities



APRIL 12-14
Minneapolis, MN



GHP 2023
WORKSHOP

WORKSHOP TOPICS INCLUDE:

- Artificial intelligence and machine learning for hadron physics
- Electron Ion Collider and other future facilities and experiments
- Electroweak probes
- Extreme matter and neutron star collisions
- Hadrons in nuclei
- Hadron spectroscopy
- Hadron tomography
- Hadronization
- Heavy flavor and jet production
- Neutrino-hadron interactions
- New physics and discrete symmetry violation in hadron physics
- Nonequilibrium dynamics
- Nucleon and nuclear spin physics
- Origin of hadron mass
- Physics of the quark-gluon plasma
- Quantum information for hadron physics
- Small systems and collectivity
- Transverse and longitudinal structure of hadrons
- Ultrapерipheral Collisions

10th WORKSHOP OF THE APS TOPICAL GROUP ON HADRONIC PHYSICS

The GHP workshop is a great opportunity for nuclear and particle physicists to share their research and common interests in hadronic physics. We welcome your attendance and participation. Please encourage your students and postdocs to take part.



The workshop immediately precedes the APS April Meeting 2023 and is at the same venue.

ORGANIZING COMMITTEE:

Ron Belmont (UNC Greensboro)
William Brooks (Federico Santa Maria Technical University) - *workshop co-chair*
Ian Cloët (Argonne National Laboratory)
Martha Constantinou (Temple University)
James Dunlop (Brookhaven National Laboratory)
Dave Gaskell (Jefferson Lab)
Spencer Klein (Lawrence Berkeley National Laboratory)
Alexei Prokudin (Penn State Berks)
Susan Schadmand (GSI Helmholtzzentrum für Schwerionenforschung GmbH)
Axel Schmidt (George Washington University)
Julia Velkovska (Vanderbilt University) - *workshop co-chair*
Ramona Vogt (Lawrence Livermore National Laboratory & UC Davis)

contact: ghpworkshops@gmail.com <https://www.jlab.org/indico/e/ghp2023>

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

Workshop website: <https://www.jlab.org/indico/event/412>
Workshop email: ghp2021@anl.gov

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Newsletter

Alex really pushed this, Craig Roberts made it happen.



GHP Newsletter

March 2022

AMERICAN PHYSICAL SOCIETY TOPICAL GROUP ON HADRONIC PHYSICS

<https://engage.aps.org/ghp/home>

Executive Officers

Executive Officers				
<i>Chair</i>	<i>Chair-Elect</i>	<i>Vice-Chair</i>		
Dave Gaskell gaskell@jlab.org	Julia Velkovska julia.velkovska@vanderbilt.edu	William Brooks william.brooks@usm.cl		
<i>Past-Chair</i>	<i>Secretary/Treasurer</i>	<i>Members at Large</i>		<i>Early Career</i>
Ian Cloët icloet@anl.gov	Jamie Dunlop dunlop@bnl.gov	Alexey Prokudin avp5627@psu.edu	Martha Constantinou marthac@temple.edu	Axel Schmidt axelschmidt@gwu.edu

NB. EMail addressed to ghpexec@anl.gov will reach all members of the Executive.

Join GHP by following a link on our web page; namely, from:
<https://engage.aps.org/ghp/home>.

GHP Newsletter

April 2005

AMERICAN PHYSICAL SOCIETY TOPICAL GROUP ON HADRON PHYSICS

Executive Officers

<i>Chair</i>	<i>Chair-Elect</i>	<i>Vice-Chair</i>	<i>Past-Chair</i>
Ted Barnes tbarnes@utk.edu	Ed Kinney Edward.Kinney@colorado.edu	Craig Roberts cdroberts@anl.gov	Eric Swanson swansone+@pitt.edu
<i>Secretary/Treasurer</i>		<i>Members at Large</i>	
Wally Melnitchouk wmelnitc@jlab.org		Mike Lietch leitch@lanl.gov	Dave Tedeschi tedeschi@sc.edu

Elections

Elections were held late last year, with the results announced on 27/January/05. The current composition of the GHP Executive appears above. Elections for *Vice-Chair* and two *Members-at-Large*, whose terms expire after one year, will be held in November, 2005.

Thesis Prize

Ramona Vogt, Ron Gilman, Ian Cloet, Dave Gaskell

Sam Aronson (BNL) Daniel Kaplan (Fermilab users group)



Prizes & Awards

Dissertation Award in Hadronic Physics

To recognize outstanding early-career scientists who have performed original research in the area of hadronic physics, the APS Topical Group on Hadronic Physics has established a dissertation award.

Deadline: Sunday, August 1, 2022

[More Information](#)

[Donate to Award](#)

GHP Student Travel Grant

The GHP also provides a limited number of travel awards, including complimentary registration, to encourage graduate students to participate in the biennial GHP meetings, held in odd years in conjunction with the APS April meeting. Students seeking financial support must submit an abstract for a contributed talk, along with a statement from their advisor. Selection is based upon merit and need.

Further information will be available before the GHP biennial meeting on the meeting's web site.

Executive

Executive Committee Members

Chair: [Julia Velkovska](#) (01/23–12/23)
Vanderbilt University

Chair-Elect: [William K Brooks](#) (01/23–12/23)
Federico Santa Maria Technical University

Vice Chair: [Bjoern P Schenke](#) (01/23–12/23)
Brookhaven National Laboratory

Past Chair: [David Gaskell](#) (01/23–12/23)
Jefferson Lab/Jefferson Science Associates

Secretary/Treasurer: [James Colville Dunlop](#) (01/22–12/24)
Brookhaven National Laboratory

Member-at-Large: [Martha Constantinou](#) (01/22–12/23)
Temple University

Member-at-Large: [Elena A Long](#) (01/23–12/24)
University of New Hampshire

Early Career Member-at-Large: [Friederike Bock](#) (01/23–12/23)
Oak Ridge National Laboratory

Past Executive Committee Members

Note that from 2003-May 2016 when new bylaws were approved, the time of service for an elected office was from e.g. 11/1/XX to 10/31/XX+1. After that, the time of service followed the calendar year, e.g. 1/1/YY to 12/31/YY.

1/1/2021 - 12/31/2021

Garth Huber (Past Chair)
Ian Cloet (Chair)
Dave Gaskell (Chair-Elect)
Julia Velkovska (Vice-Chair)
Ramona Vogt (Secretary-Treasurer)
Phiala Shanahan (Member-at-Large)
Alexey Prokudhin (Member-at-Large)
Astrid N. Hiller Blin (Student/Early Career)

1/1/2018 - 12/31/2018

Paul Reimer (Past Chair)
Tanja Horn (Chair)
David Richards (Chair-Elect)
Garth Huber (Vice-Chair)
Ramona Vogt (Secretary-Treasurer)
Xiaochao Zheng (Member-at-Large)
Anne Sickles (Member-at-Large)

1/1/2020 - 12/31/2020

David Richards (Past Chair)
Garth Huber (Chair)
Ian Cloet (Chair-Elect)
Dave Gaskell (Vice-Chair)
Ramona Vogt (Secretary-Treasurer)
Timothy Hobbs (Member-at-Large)
Phiala Shanahan (Member-at-Large)

1/1/2017 - 12/31/2017

Raju Venugopalan (Past Chair)
Paul Reimer (Chair)
Tanja Horn (Chair-Elect)
David Richards (Vice-Chair)
Ramona Vogt (Secretary-Treasurer)
Ian Cloet (Member-at-Large)
Xiaochao Zheng (Member-at-Large)

1/1/2019 - 12/31/2019

Tanja Horn (Past Chair)
David Richards (Chair)
Garth Huber (Chair-Elect)
Ian Cloet (Vice-Chair)
Ramona Vogt (Secretary-Treasurer)
Anne Sickles (Member-at-Large)
Timothy Hobbs (Member-at-Large)

11/1/2015 - 12/31/2016

Peter Petreczky (Past Chair)
Raju Venugopalan (Chair)
Paul Reimer (Chair-Elect)
Tanja Horn (Vice-Chair)
Ramona Vogt (Secretary-Treasurer)
Leonard Gamberg (Member-at-Large)
Ian Cloet (Member-at-Large)

11/1/2014 - 10/31/2015

Matthias Burkardt (Past Chair)
Peter Petreczky (Chair)
Raju Venugopalan (Chair-Elect)
Paul Reimer (Vice-Chair)
Craig Roberts (Secretary-Treasurer)
Christine Aidala (Member-at-Large)
Leonard Gamberg (Member-at-Large)

11/1/2011 - 10/31/2012

Ron Gilman (Past Chair)
Ramona Vogt (Chair)
John Arrington (Chair-Elect)
Matthias Burkardt (Vice-Chair)
Craig Roberts (Secretary-Treasurer)
Volker Crede (Member-at-Large)
Jianwei Qiu (Member-at-Large)

11/1/2008 - 10/31/2009

Curtis Meyer (Past Chair)
Winston Roberts (Chair)
Stan Brodsky (Chair-Elect)
Ron Gilman (Vice-Chair)
Wally Melnitchouk (Secretary-Treasurer)
Ramona Vogt (Member-at-Large)
Sebastian Kuhn (Member-at-Large)

11/1/2005 - 10/31/2006

Ted Barnes (Past Chair)
Ed Kinney (Chair)
Craig Roberts (Chair-Elect)
Curtis Meyer (Vice-Chair)
Wally Melnitchouk (Secretary-Treasurer)
Mike Leitch (Member-at-Large)
Dave Tedeschi (Member-at-Large)

11/1/2002 - 10/31/2003

Alex Dzierba (Chair)

11/1/2013 - 10/31/2014

John Arrington (Past Chair)
Matthias Burkardt (Chair)
Peter Petreczky (Chair-Elect)
Raju Venugopalan (Vice-Chair)
Craig Roberts (Secretary-Treasurer)
Susan Schadmand (Member-at-Large)
Christine Aidala (Member-at-Large)

11/1/2010 - 10/31/2011

Stan Brodsky (Past Chair)
Ron Gilman (Chair)
Ramona Vogt (Chair-Elect)
John Arrington (Vice-Chair)
Craig Roberts (Secretary-Treasurer)
Robert Edwards (Member-at-Large)
Volker Crede (Member-at-Large)

11/1/2007 - 10/31/2008

Craig Roberts (Past Chair)
Curtis Meyer (Chair)
Winston Roberts (Chair-Elect)
Stan Brodsky (Vice-Chair)
Wally Melnitchouk (Secretary-Treasurer)
Paul Eugenio (Member-at-Large)
Ramona Vogt (Member-at-Large)

11/1/2004 - 10/31/2005

Eric Swanson (Past Chair)
Ted Barnes (Chair)
Ed Kinney (Chair-Elect)
Craig Roberts (Vice-Chair)
Wally Melnitchouk (Secretary-Treasurer)
Mike Leitch (Member-at-Large)
Dave Tedeschi (Member-at-Large)

11/1/2012 - 10/31/2013

Ramona Vogt (Past Chair)
John Arrington (Chair)
Matthias Burkardt (Chair-Elect)
Peter Petreczky (Vice-Chair)
Craig Roberts (Secretary-Treasurer)
Jianwei Qiu (Member-at-Large)
Susan Schadmand (Member-at-Large)

11/1/2009 - 10/31/2010

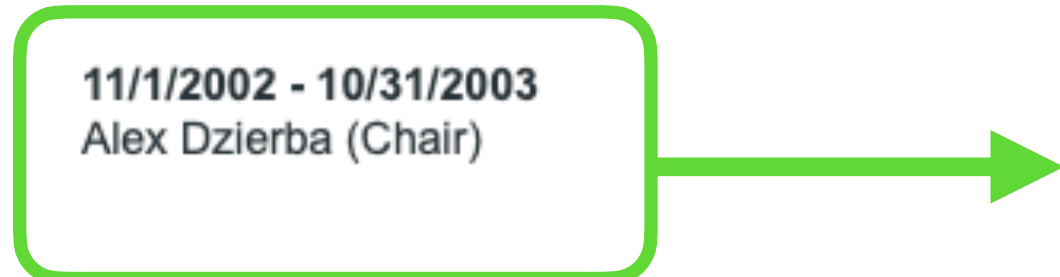
Winston Roberts (Past Chair)
Stan Brodsky (Chair)
Ron Gilman (Chair-Elect)
Ramona Vogt (Vice-Chair)
Craig Roberts (Secretary-Treasurer)
Sebastian Kuhn (Member-at-Large)
Robert Edwards (Member-at-Large)

11/1/2006 - 10/31/2007

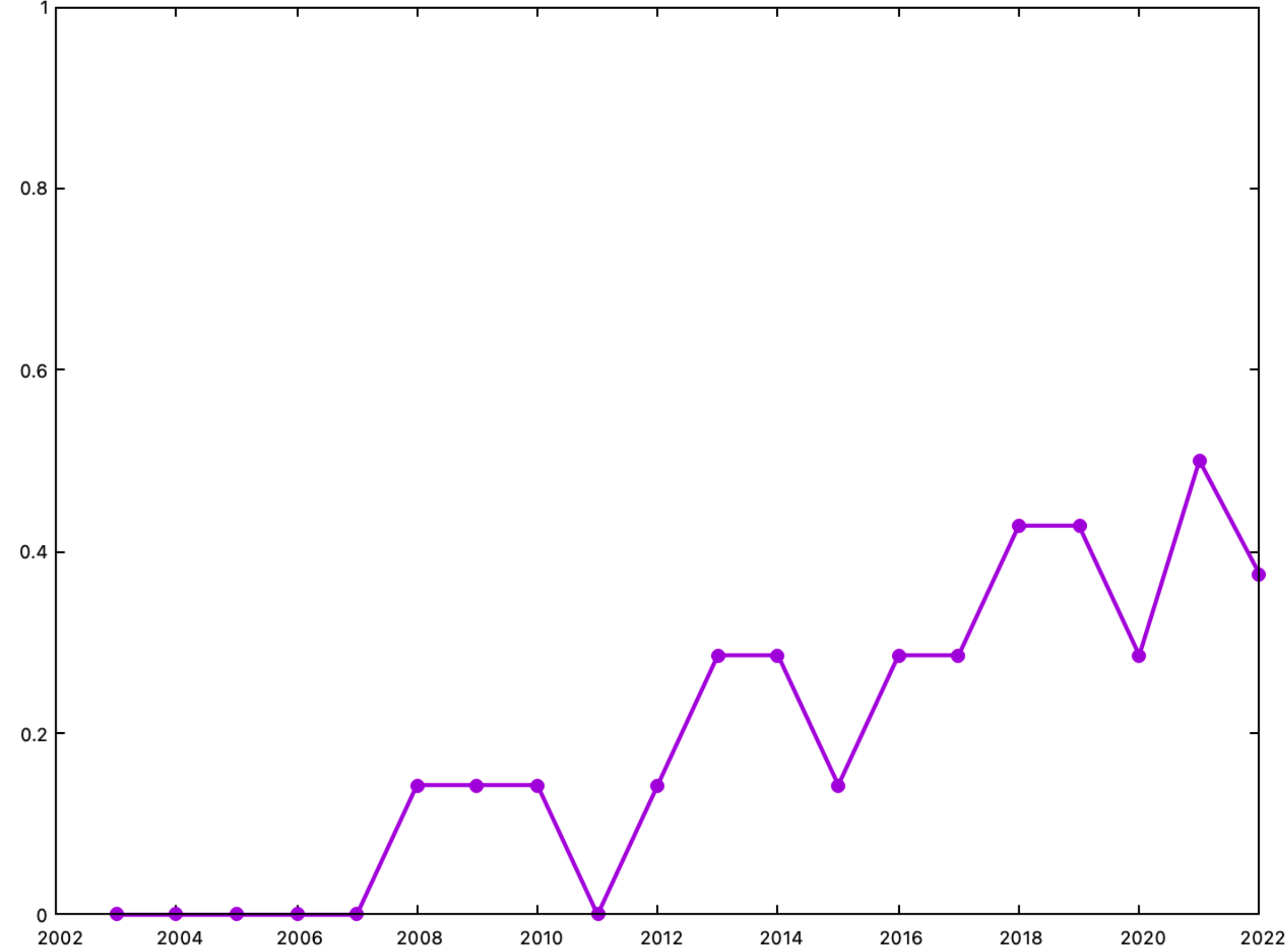
Ed Kinney (Past Chair)
Craig Roberts (Chair)
Curtis Meyer (Chair-Elect)
Winston Roberts (Vice-Chair)
Wally Melnitchouk (Secretary-Treasurer)
Dave Tedeschi (Member-at-Large)
Paul Eugenio (Member-at-Large)

11/1/2003 - 10/31/2004

Alex Dzierba (Past Chair)
Eric Swanson (Chair)
Ted Barnes (Chair-Elect)
Ed Kinney (Vice-Chair)
Wally Melnitchouk (Secretary-Treasurer)
Craig Roberts (Member-at-Large)



Fraction of Women in the Executive



Final Thoughts

- It was chiefly APS and agency officers who raised objections, the "rank and file" were very positive, which encouraged us to continue.
- Dreams of 'democratization' in the field/US physics community were foolish.
- The TG is only as good as its executive, and they have done a great job over the years.
- EIC bodes well for the future! (CD-3 2025, CD-4 2031?)

DRAFT
November 2000
bj

Why Hadron Physics?



The future of hadron physics should be a bright one. Important science is there, waiting to be done. Hard work, both scientific and political, will be necessary for it to be properly served.