

April 2021 DPF Newsletter

Dear DPF members,

Please find below the monthly DPF newsletter for April 2021. This newsletter will be archived on the DPF website. If you would like an announcement included in the May 2021 newsletter, to be sent out around May 15th, please contact the DPF Secretary/Treasurer. Please keep requests to 300 words and submit them by the **10th of the month** for consideration.

Mirjam Cvetič, Secretary/Treasurer, cvetic@physics.upenn.edu

Julia Gonski, Early Career Member, julia.lynne.gonski@gmail.com

DPF21

Hold the date: DPF21 will be held **July 12-14**. This virtual meeting is being hosted by Florida State University - more details to follow.

DPF Executive Committee Statement

The DPF Executive Committee endorses the APS [statement](#) condemning anti-Asian racism and misogyny in light of the recent killings in Atlanta last week. For people of Asian descent, particularly women of Asian descent, these killings are a painful reminder of the racism and misogyny these groups have experienced in the United States for centuries.

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April DPF Meeting

At this April's APS meeting, DPF had a very extensive program of 10 sessions of invited talks; three joint sessions with DAP, DPB, and DNP; 40 sessions of contributed talks; and several special activities. One of the invited sessions was a memorial for Alvin Tollestrup of Fermilab. In a joint session of DPF and DPB, the Robert R. Wilson Prize for Achievement in the Physics of Particle Accelerators was awarded posthumously to Yuri Orlov (who passed away in September 2020) of Cornell University in a special series of brief memorial statements. Special activities included a session on the recently released result from the Fermilab Muon g-2 Experiment, a "Grad Slam" competition with students giving 3-minute talks on their research, the DPF annual Business Meeting, a Town Hall meeting devoted to Early Career Community Issues and to the pandemic, a Networking Event with an open microphone community discussion with members of the DPF chair-line, and a meeting of NSF/DOE representatives with Early Career Scientists. We also had minisymposia on the Muon Collider, Quantum Sensors and Computing, and Precision Measurements with Leptons. Together with PR/PRL, DAP, and DGRAV, we sponsored a session called "Probing Dark Matter".

The DPF Chair line would like to thank the DPF Program Committee for their great efforts in creating this program, the APS April Meeting team for their work and guidance in organizing a virtual conference in this challenging time, all the speakers, and over 650 DPF members who participated.

Additional information may be found at:

- Chair/treasurer report at the business meeting:

<https://engage.aps.org/dpf/blogs/tao-han1/2021/04/23/dpf-chairtreasurer-report-at-the-2021-aps-april-me>

- Town Hall meeting notes:

<https://engage.aps.org/dpf/blogs/tao-han1/2021/04/23/dpf-town-hall-meeting-notes-2021-aps-april-meeting>

Tao Han, Joel Butler, Sekhar Chivukula, and Young-Kee Kim

DPF Grad Slam

The winners of the April meeting “Grad Slam” are:

- Asli Abdullahi, Institute for Particle Physics Phenomenology, Durham University
“A Dark Neutrino Solution to Low Energy Anomalies”
- Anne Fortman, Harvard University
“Electronics Calibrations for the ATLAS New Small Wheel Upgrade”
- Michael Wilkinson, Syracuse University
“Measurement of $\mathcal{B}(\Xi_c^0 \rightarrow \pi^- \Lambda_c^+)$ ”

Our congratulations to the winners and thanks to all the participants.



Participants in April DPF Grad Slam

In Memoriam*

Professor Sandip Pakvasa of the University of Hawaii passed away on Sept. 24, 2020:

<https://www.phys.hawaii.edu/sandip-pakvasa/>

We express our condolences to Prof. Pakvasa's family and colleagues.

* Memorial notices of persons who have been members of the DPF are provided as a service to the community. They may be requested by the family or appropriate institutional representative, and should include a link to an appropriate public death notice.

Nominations for J.J. Sakurai Prize in Theoretical Particle Physics

Nomination Deadline: **1 June, 2021**

Dear Colleague,

We are writing to encourage you to nominate a colleague or colleagues for this year's J.J. Sakurai Prize in Theoretical Particle Physics. This prize recognizes and encourages outstanding achievement in particle theory. Further details on this prize can be found at <https://aps.org/programs/honors/prizes/sakurai.cfm>.

This year's nomination deadline is June 1.

The prize consists of \$10,000, a certificate, and an allowance for travel to the American Physical Society meeting at which the prize is to be awarded. Please note that the prize selection is limited to the nomination pool. Nominations will remain active for three years.

Nominations are open to scientists of all nationalities regardless of the geographical site at which the work was done. Nominators should consider works from a diverse range of scientists, and we encourage nominations that reflect the contributions of women, members of underrepresented groups, and scientists from outside the United States.

Information about nomination procedures can be found at <https://www.aps.org/programs/honors/nomination.cfm>.

With best regards,

Neal Weiner (Chair)
Vernon Barger
Lance Dixon
Bogdan Dobrescu
Shufang Su
(2022 J.J. Sakurai Prize Selection Committee)

Nominations for Henry Primakoff Award for Early-Career Particle Physics

Nomination Deadline: **1 June, 2021**

We would like to invite nominations for the 2021 Henry Primakoff Award for Early-Career Particle Physics. The nomination deadline is June 1, 2021. This award recognizes outstanding elementary particle physics research performed by a physicist who obtained their Ph.D. within seven years of the current nomination deadline, plus any career breaks. The award covers particle physics in the broad sense, both theory and experiment, including, for example, particle astrophysics and string theory. Learn more about the Primakoff Award and read the rules for submission of nominations at <https://www.aps.org/programs/honors/awards/primakoff.cfm>.

Information about nomination procedures can be found at <https://www.aps.org/programs/honors/nomination.cfm>.

Primakoff Award Committee:

Ed Blucher
Brenna Flaughner
Rafael Lang
Henriette Elvang
LianTao Wang
Jaroslav Trnka

Nomination of Candidates for the Robert R. Wilson Prize Nomination

Deadline: **1 June, 2021**

The Robert R. Wilson Prize is intended to recognize and encourage outstanding achievement in the physics of particle accelerators. The Prize consists of \$10,000, an allowance for travel to the meeting at which the Prize is awarded and a certificate citing the contributions made by the recipient. The deadline for the nomination is Monday, June 1, 2021. The nomination should include a vitae and a description of the accomplishments of the nominee. At least two but not more than four supporting letters will help the selection committee in their deliberations. Serving a diverse and inclusive community of physicists worldwide is a primary goal for APS. Nominations of women, members of underrepresented minority groups, and scientists from outside the United States are especially encouraged. These nominations are open to scientists of all nations regardless of the geographical site at which the work was done. The prize shall ordinarily be awarded to one person but may be shared when all recipients have contributed to the same accomplishment. The prize will normally be awarded for contributions made at an early stage of the recipient's career. Nominations are active for three years. More details and instructions for the nomination process can be found at <https://aps.org/programs/honors/prizes/wilson.cfm>. Feel free to contact Mei Bai, chair of the 2022 APS Wilson Prize Selection Committee.

Information about nomination procedures can be found at <https://www.aps.org/programs/honors/nomination.cfm>.

2022 Selection Committee Members:

Mei Bai (Chair)

Patrick McBride (Vice-Chair)

Cameron Geddes

Sekazi Mtingwa

Stephen Peggs

Alexander Valishev

Eric Zimmerman

Nomination of Candidates for the W.K.H. Panofsky Prize in Experimental Particle Physics

Deadline: **1 June, 2021**

We invite nominations for the 2022 W.K.H. Panofsky Prize. This \$10,000 prize recognizes outstanding achievements in Experimental Particle Physics. It is normally awarded to one person but may be shared by multiple recipients who have contributed to the same accomplishment.

The deadline for nomination is **June 1, 2021**. Detailed information about this prize and nomination can be found at: <https://www.aps.org/programs/honors/prizes/panofsky.cfm>.

Nominations for APS Fellowship

Deadline: 1 June, 2021

The APS Fellowship Program was created to recognize members who may have made advances in physics through original research and publication or made significant innovative contributions in the application of physics to science and technology. They may also have made significant contributions to the teaching of physics or service and participation in the activities of the Society.

Fellowship is a distinct honor signifying recognition by one's professional peers. Each year, no more than one half of one percent of the Society's membership (excluding student members) is recognized by their peers for election to the status of Fellow of the American Physical Society.

For more information see: <https://www.aps.org/programs/honors/fellowships/index.cfm>.

Nomination Process

Candidates for Fellowship must be an APS member in good standing at the time of nomination submission. The criterion for election is exceptional contributions to the physics enterprise; *e.g.*, outstanding physics research, important applications of physics, leadership in or service to physics, or significant contributions to physics education.

Each nomination is evaluated by the Fellowship committee of the appropriate APS division, topical group or forum, or by the APS General Fellowship committee. After review by the full APS Fellowship Committee, the successful candidates are elected by APS Council.

The membership of APS is diverse and global, and the Fellows of the APS should reflect that diversity. Fellowship nominations of women, members of underrepresented minority groups, and scientists from outside the United States are especially encouraged.

[Submit a 2021 Fellowship Nomination](#)

RADCOR & LoopFest 2021

15th International Symposium on Radiative Corrections and XIX Workshop on Radiative Corrections for the LHC and Future Colliders

17-21 May, 2021

Registration Deadline: **10 May, 2021**

Virtual online

The RADCOR-LoopFest 2021 conference is the joint edition of the 15th International Symposium on Radiative Corrections (RADCOR) and the XIX Workshop on Radiative Corrections for the LHC and Future Colliders (LoopFest). It is dedicated to the application of quantum field theory techniques to particle physics phenomenology and will span five days of plenary and parallel talks between May 17-21, 2021. It will be held as a fully virtual conference and will be organized by members of the HEP-Th group at Florida State University.

The conference will cover subjects on precision calculations for colliders; progress in higher-loop and higher-multiplicity calculations in the Standard Model; cross sections for new physics; new techniques for calculations; advances in computer-algebra methods; and new theoretical developments for scattering amplitudes.

For registration and further information, please visit the web site:

<https://indico.cern.ch/event/958085/overview>

We look forward to seeing you!

The RADCOR-LoopFest 2021 Organizers:

Fernando Febres Cordero, Laura Reina, Manfred Kraus
(on behalf of the RADCOR IAB and the LoopFest AC)

15th International Symposium on Radiative Corrections **Radcors & LoopFest** **XIX Workshop on Radiative Corrections for the LHC and Future Colliders**

17-21 May, 2021, FSU, Tallahassee, FL, USA

Radcors International Advisory Board		
M. Beneke	TU Munich	J. H. Kühn
Z. Bern	UCLA	P. Mathews
J. Blümlein	DESY	V. Ravindran
M. Dacchiari	LPTHE, Jussieu	T. Riemann
S. Catani	INFN Florence	C. Schneider
C. Duhr	CERN	J. Sola
R. K. Ellis	IPPP, Durham	M. Steinhauser
J. Fujimoto	KEK	H. Sugawara
T. Gehrmann	Zurich	T. Uematsu
A. Hoang	Vienna	B. F. L. Ward
W. Hollik	MPI Munich	
S. Jadach	INP Cracow	
D. Kosower	IPhT, CEA-Saclay	

LoopFest Advisory Committee	
L. Dixon	SLAC
F. Petriello	Northwestern
L. Reina	FSU
D. Wackerroth	Buffalo

Local Organizing Committee	
F. Febres Cordero	FSU
M. Kraus	FSU
L. Reina	FSU

<https://indico.cern.ch/e/radcors-loopfest-2021>

Phenomenology 2021 Symposium (PHENO 2021)

24-26 May, 2021

Registration Deadline: **23 May, 2021**

virtual online

The 2021 Phenomenology Symposium (PHENO 2021) will take place during May 24-26, 2021, virtual online, organized by the PITT PACC at the University of Pittsburgh.

The Symposium will cover current issues in particle physics phenomenology, theoretical developments, and recent experimental results, ranging from low energy phenomena over collider physics to astro-particle physics and cosmology. The Symposia are attended by experimental and theoretical physicists in roughly equal numbers, with a large number of junior participants. The broad plenary and parallel sessions provide an excellent forum for discussions. There will be a “Forum on early career development” on Monday at lunchtime.

The registration and parallel talk submission are open now. Parallel talk submission deadline is April 26, 2021, and the registration free of charge will end May 23, 2021.

For registration and further information, please visit the web site at <https://indico.cern.ch/event/982783/>.

We look forward to seeing you at Pheno 2021!

Pheno 2021 organizers: Ayres Freitas, Joni George, Tao Han (chair), Adam Leibovich, Cédric Weiland, Benjamin Carlson, Brian Batell, Akshay Ghalsasi and Keping Xie



The poster features a photograph of a tall, Gothic-style building at the University of Pittsburgh, partially obscured by green trees. The text is overlaid on the image. At the top, it reads "PHENO 2021" in a large, red, serif font, followed by "AFTER WINTER COMES SPRING" in a smaller, red, serif font. Below this, the URL "indico.cern.ch/e/pheno21" is provided. The dates "May 24-26, 2021" and "(Virtual)" are listed, along with the location "University of Pittsburgh". A section titled "Organizers:" lists Brian Batell, Benjamin Carlson, Ayres Freitas, Joni George, and Akshay Ghalsasi on the left, and Tao Han (chair), Adam Leibovich, Cédric Weiland, and Keping Xie on the right. A section titled "Program Advisors:" lists Vernon Barger, Lisa Everett, Kaoru Hagiwara, JoAnne Hewett, Tae Min Hong, Arthur Kosowsky, and James Mueller on the left, and Vittorio Paolone, Tilman Plehn, Vladimir Savinov, Xerxes Tata, Andrew Zentner, and Dieter Zeppenfeld on the right. At the bottom, there are two circular logos: the University of Pittsburgh seal and the PITT PACC logo. A small caption at the bottom left reads "Picture by Gracie Jane Gollinger".

PHENO 2021
AFTER WINTER COMES SPRING

indico.cern.ch/e/pheno21

May 24-26, 2021
(Virtual)
University of Pittsburgh

Organizers:

Brian Batell	Tao Han (chair)
Benjamin Carlson	Adam Leibovich
Ayres Freitas	Cédric Weiland
Joni George	Keping Xie
Akshay Ghalsasi	

Program Advisors:

Vernon Barger	Vittorio Paolone
Lisa Everett	Tilman Plehn
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Tae Min Hong	Andrew Zentner
Arthur Kosowsky	Dieter Zeppenfeld
James Mueller	

Picture by Gracie Jane Gollinger

28th International Workshop on Weak Interactions and Neutrinos

First Announcement
7-12 June, 2021
Registration Deadline: **21 May, 2021**

The goal of the 28th International Workshop on Weak Interactions and Neutrinos (WIN 2021) is to offer to the community a significant opportunity to assess the status of the field and to initiate collaborative efforts to address current physics questions. Following up on previous successful workshops, most recently in Heidelberg (2015), Irvine (2017) and Bari (2019), WIN 2021 will be held Monday June 7, 2021 to Saturday June 12, 2021. Due to international travel uncertainties, WIN 2021 will be entirely online with sessions between 1300 and 1700 GMT.

Required **no cost** registration and additional information about the Workshop are now available at the WIN 2021 website (<http://win2021.umn.edu>).

The topics for WIN 2021 are:

- Neutrino Physics
- Electro-Weak Symmetry Breaking and Higgs
- Flavor Physics
- Astroparticle Physics

The names and contact information for theoretical and experimental Conveners for each of these four topics are listed on the WIN 2021 website.

Participation opportunities for WIN 2021 include:

- Plenary highlight talks
- Recorded talks posted in advance (asynchronous talks) and a live discussion panel
- Virtual poster sessions

Participants interested in proposing contributions should submit abstracts using the Workshop Indico link <https://indico.fnal.gov/event/win2021/>.

Please direct questions to the Organizing Committee at win2021-loc@umn.edu.

49th SLAC Summer Institute

16-27 August, 2021

Dear Colleagues:

The 49th SLAC Summer Institute will take place 16-27 Aug 2021. The theme for this year's installment is "The Higgs State Fair" and will broadly cover issues related to the physics of the Higgs sector in the Standard Model and beyond.

Due to the ongoing COVID-19 pandemic, this year's SSI will take the form of a series of on-line lectures given via Zoom. Registration (which is free) is still requested of all attendees. The full program and further details can be found on the SSI webpage:

<https://conf.slac.stanford.edu/ssi2021>

SSI has a long tradition of offering comprehensible lectures for advanced graduate students & postdoctoral fellows while senior researchers are always welcome. If you have further questions, please contact us at ssi@slac.stanford.edu.

We hope to see you (virtually!) at SLAC this summer for SSI 2021!

The SSI 2021 Program Directors,
Mark Convery, Lisa Kaufman, Greg Madejski, Su Dong, Rich Partridge, Charlie Young, and Tom Rizzo (chair)