January 2024 DPF Newsletter

Dear DPF members,

Please find below the monthly DPF newsletter for January 2024. This newsletter will be archived on the DPF website. If you would like an announcement included in the February 2024 newsletter, to be sent out around mid-February, please contact the DPF Secretary/Treasurer. Please keep requests to 300 words and submit them by the 10th of the month for consideration.

I take this opportunity to wish all of you and your families a very happy and healthy new year!

Best wishes,

Tulika Bose,
Secretary/Treasurer,  tulika@hep.wisc.edu

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Message from the DPF Chair

Dear DPF Members,

Happy New Year! It is my privilege to serve as Chair of the DPF this calendar year. The DPF community is emerging from a multi-year planning exercise followed by a project prioritization process that culminated in the release of the P5 report last December. The ambitious yet achievable vision put forth by P5 has received wide support from the community and it is now our job to help make it into a reality. On behalf of the community, I acknowledge the leadership of Hitoshi Murayama and Karsten Heeger, and thank the entire panel for investing their time and energy to help plot the future of our diverse field.

We are indebted to last year’s Chair, Sekhar Chivukula, for leading the DPF during 2023. He has made our job this year much easier and will be a very hard act to follow. We are fortunate to count on a wonderful Executive Committee to advance our mission. I am proud to welcome Sapta Bhattacharya, who represents the early career members of the community, and Mu-Chun Chen and Todd Adams as new members of the DPF Executive Committee, and Sarah Eno as DPF Vice-Chair. And I want to thank Gordon Watts, Mayly Sanchez, and Kelly Stifter, members of the Executive Committee, and Joel Butler, Past Chair, whose terms ended in December 2023, for their many years of service.

This year, echoing last year, we plan to continue working towards a more diverse, equitable, and inclusive community and providing support to our early career colleagues as they navigate a rapidly evolving and challenging environment. We also aspire to render APS and DPF more valuable to and more representative of the community at large. Among other activities, the DPF will be joining forces with the Phenomenology Symposium, and is helping organize the DPF-Pheno 2024 meeting in Pittsburgh in May. I hope to see many of you there and look forward to healthy discussions!

Sincerely,

André de Gouvêa, on behalf of the DPF Chairline

DPF Chairline: André de Gouvêa (Chair), Heidi Schellman (Chair-Elect), Sarah Eno (Vice-Chair), Sekhar Chivukula (Past Chair). You can reach us at dpf_chair_line@fnal.gov.
Update on support for P5 Plan - help needed in reaching junior colleagues!

Thanks to all who have supported the 2023 P5 plan. We have received over 3100 endorsements, including almost 2800 from those in the US. Current results are summarized here:

https://docs.google.com/spreadsheets/d/e/2PACX-1vRaGe9kVV-uBNPJstmYcYMWiluxya7hSsgDnWB1pg44I8zxpVgI4jUSvOR0VCoa5fCetgDJCNDUJb3O/pubhtml?gid=307089066&single=true

Your help is needed to reach more of our junior colleagues. The endorsement of the P5 plan by students (both graduate and undergraduate) and postdocs is particularly important, since these young physicists are the future leaders of our field. Furthermore, since we are presenting a twenty-year vision for particle physics, the demonstrated enthusiasm for our science among young physicists is crucial in efforts to advocate for funding.

The Google Form to collect P5 endorsement signatures:

https://forms.gle/QGG4Upowog8G84R26

will remain open until Jan. 26.

Help in reaching any additional colleagues who might be interested in signing, especially students and postdocs in your group and department, would be greatly appreciated.

With best regards,

Sekhar Chivukula
DPF Past Chair, for the P5 Rollout Committee
Update on Formation Taskforce for Software & Computing Panel

The Computing Frontier (CompF) of the Snowmass 2021 Community Planning Process recommended the creation of a standing Coordinating Panel for Software and Computing (working name only, CPSC) under the auspices of DPF. The DPF Executive Committee (EC) decided as part of the 2023 (post-Snowmass) planning to undertake this new assignment in support of US HEP. There are many similarities between the proposed CPSC and the Coordinating Panel for Advanced Detectors, CPAD, (original name DRDCP), formed around 2012. CPAD is sponsored by the DPF, and its mission and governance are included in the DPF By-Laws.

We have recently set up a task force, the “Formation Task Force (FTF)” of 20 members and some advisors to write a report specifying the charge, governance, organization, and scope of activities of the CPSC. Nominations for membership in the FTF were solicited from the DPF and the CompF memberships in September of 2023. A total of 61 people received one or more nominations. A small team of members of the DPF EC chose the chairperson and invited 21 of the nominees to serve, based on the desire to have a good representation of people with different involvement in HEP computing. Of these, 90% agreed to serve. The FTF is asked to deliver its report in 4 months. The report will then be reviewed by various stakeholders and ultimately approved by the DPF EC. The FTF and its charge and organization will be included in the DPF by-laws and will require approval by the APS. Service on the FTF does not preclude participation in the CPSC.

The FTF held its first meeting on January 9. The members are:

Ian Fisk (chairperson), Flatiron Institute, Tulika Bose, University of Wisconsin, Peter Boyle, Brookhaven National Laboratory, Joel Butler, Fermilab, Gavin S. Davies, University of Mississippi, Peter Elmer, Princeton University and IRIS-HEP, V. Daniel Elvira*, Fermilab, Matthew Feickert, University of Wisconsin, Steve Gottlieb*, Indiana University, Salman Habib, Argonne National Laboratory, Michael H Kirby, Brookhaven National Laboratory, Charles Leggett, Lawrence Berkeley National Laboratory, Adam L Lyon, Fermilab, Maria Elena Monzani, SLAC National Accelerator Laboratory, Benjamin Nachman*, Lawrence Berkeley National Laboratory, Verena Martinez Outschoorn, University of Massachusetts, Amherst, Amy Roberts, University of Colorado, Denver, Elizabeth S Sexton-Kennedy, Fermilab, Giordon Stark, University of California, Santa Cruz, Jan F. Strube, Pacific Northwest National Laboratory, Ruth S Van De Water, Fermilab, Michael Williams, Massachusetts Institute of Technology

* advisor, reviewer, and special liaison to CompF
APS April Meeting at Sacramento (April 3-6)

The April APS meeting: "Quarks to Cosmos" will be held at the SAFE Credit Union Convention Center in Sacramento, CA, April 3-6. The DPF has planned 11 sessions of invited talks, these include talks by many of the winners of DPF and APS prizes. New this year is an expansion to five mini-symposia, sessions which combine an invited thematic talk with topical contributed talks.

There are a limited number of student travel and caregiver awards available for speakers, see https://april.aps.org/travel for the details. The deadline for applying for travel/caregiver awards is Feb 15, 2024. There is discounted registration for the conference until Feb 20, 2024.
APS April Meeting: DPF Travel Awards (Deadline: Feb 15)

DPF will be sponsoring a limited number of student and travel awards for people speaking at the APS April meeting, April 3-6 in Sacramento. The deadline for applications is February 15. For details and application, set up a special submission account and then see the links below.

First, if you do not already have a submittable account, please create one now using this link. Then, return to this page to begin your application by clicking on the button below.

Caregiver grant:
https://aps.submittable.com/submit/4a86f1ac-735f-47b6-95ba-9b4dbfceb226/2024-dpf-caregiver-grant

Student Travel Award:
DPF-PHENO 2024: Save the Date

The University of Pittsburgh and Carnegie Mellon University have graciously agreed to host the 2024 edition of the DPF Meeting in Pittsburgh. The DPF meeting will unite with the annual Phenomenology Symposium (Pheno) for one year and the joint meeting is scheduled for May 13 to 17, 2024: https://indico.cern.ch/e/dpfpheno24

The APS Division of Particles & Fields (DPF) Meeting brings members of the division together to review results and discuss future plans and directions. It is an opportunity for attendees, especially junior researchers, to present their findings and interact with their fellow scientists.

The Phenomenology Symposia have been a very successful conference series for many years, providing an excellent forum for exchanging ideas and collaboration. A trademark of Pheno has been strong participation and a large number of presentations from graduate students. At Pheno, there is no registration fee for students.

The meeting opens each day with plenary sessions followed by selected community sessions. Parallel sessions dedicated to specific topics will be held in the afternoons. True to both DPF and Pheno traditions, this year’s meeting will feature an Early Career Development Forum covering a range of issues relevant for careers in particle physics and beyond.

Topics will include: Accelerators & Detectors; Computing, Machine Learning, & AI; Quantum Computing & Sensing; Electroweak & Top Quark Physics; Higgs Physics; QCD & Heavy Ion Physics; Rare Processes & Precision Measurements; Neutrino Physics; Physics Beyond the Standard Model; Particle Astrophysics; Dark Matter; Cosmology & Dark Energy; Gravity & Gravitational Waves; Lattice Gauge Theory; Field & String Theory; Outreach & Education; Diversity, Equity, & Inclusion.

The last DPF Meeting took place remotely in 2021, hosted by Florida State University. The last in-person meeting was in Boston in 2019, hosted by Northeastern University. After a long hiatus (and Snowmass 2021 and the on-going P5 Process), the time has come to resume the DPF Meeting series!

More details including the timeline for registration and abstract submission will be available soon. Note that you do not need to be a member of APS to register or to submit an abstract.
Announcement for LHCP 2024

Dear colleagues,

We are pleased to announce that the twelfth edition of the annual Large Hadron Collider Physics (LHCP 2024) conference will be held 3-7 June 2024 at Northeastern University in Boston, United States. The LHCP 2024 conference is hosted by the Physics Department of Northeastern University.

The physics program will be a combination of plenary and parallel talks. Details concerning the conference program, the location, travel, lodging, and other useful information are available at the conference web site: https://lhcp2024.cos.northeastern.edu

We especially would like to invite you and members of the theory community to participate, and to enrich the conference program.

The registration for the conference and the poster abstract submission are open. The deadline for the early bird registration and payment is 2 April 2024, while the poster abstract submission will be closed on 15 February 2024.

The LHCP 2024 conference will provide grants to a limited number of early career researchers. The deadline for the grant application is 1 March 2024.

The first bulletin of the conference can be found at the conference indico page, or directly via this link: https://indico.cern.ch/event/1253590/attachments/2735631/4837683/LHCP_2024_bulletin_1.pdf

We are looking forward to welcoming you to Boston.

Sincerely yours,
Federico Antinori,
Emanuela Barberis,
Sarah Demers,
Toyoko Orimoto.
LHCP2024 Conference Chairs