June 2019 DPF Newsletter

Dear DPF members,
Please find below the monthly DPF newsletter for June 2019. This newsletter will be archived on the DPF website.
If you would like an announcement included in the July newsletter, to be sent out around July 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
Rick Van Kooten, Member-at-Large, ryankoot@indiana.edu
Elizabeth Worcester, Member-at-Large, etw@bnl.gov

APS Division of Particles and Fields Mentorship Award 2019 ................................................................. 2
SNEWS 2.0: Supernova........................................................................................................................................ 3
10th QCD@LHC Conference ............................................................................................................................... 4
2019 CTEQ Summer School: University of Pittsburgh, USA ........................................................................ 5
BOOST 2019 ....................................................................................................................................................... 6
2019 APS Division of Particles and Fields Meeting ............................................................................................. 7
Student Travel Awards Available for DPF 2019 ................................................................................................. 8
Tanaka Dissertation Award ................................................................................................................................ 9
29th International Symposium on Lepton Photon Interactions at High Energies ............................................. 10
47th SLAC Summer Institute .............................................................................................................................. 11
2019 Wu-Ki Tung Award for Early-Career Research on QCD ........................................................................ 12
2019 CERN-JINR European School of High-Energy Physics (ESHEP2019) .................................................. 13
Instrumentation for Colliding Beam Physics (INSTR20) ................................................................................. 14
DPF Membership .............................................................................................................................................. 15
APS Division of Particles and Fields Mentorship Award 2019

The DPF is pleased to announce that the 2019 Mentorship Award will be given to Tim M.P. Tait, UC Irvine, for his successful and inclusive mentoring of many young particle physicists, including undergraduate students, graduate students, postdoctoral researchers and junior faculty.

His tireless efforts as a mentor, role model, and supporter of diversity have left an indelible mark on the particle physics community.

The award will be given at the DPF 2019 meeting in Boston.

https://www.aps.org/units/dpf/awards/mentoring.cfm
SNEWS 2.0: Supernova

Neutrinos in the Multi-Messenger Era
14-17 June, 2019

Save the date!
Workshop at Laurentian University, Sudbury, Canada, June 14-17, 2019

SNEWS, the SuperNova Early Warning System (http://snews.bnl.gov/), is an inter-experiment network with the aim of providing a prompt alert to the astronomical community of the observation of the burst of neutrinos from a nearby core-collapse supernova. SNEWS began in 1998 and has been operational in automated-output mode since 2005. Since that time, there has been remarkable evolution of the transient astronomy landscape. Gravitational wave detectors are now active, and there have been recent spectacular observations involving multiple wavelengths of electromagnetic radiation, neutrinos and gravitational waves. Community infrastructure for fast response to alerts has improved significantly and there are new opportunities available for rare and valuable gathering of scientific information in response to a detected neutrino burst.

The "SNEWS 2.0" workshop will be held at Laurentian University, Sudbury, Canada, June 14-17, 2019. It will focus on plans for an update of SNEWS, given the new context of multi-messenger astronomy. The focus will be on real-time alert aspects of supernova neutrino detection.

Topics to be covered:
- Supernova neutrino detection capabilities of existing and future experiments
- Multi-messenger signals from core-collapse supernovae and other transients also observable in neutrino detectors
- Existing astronomical alert networks
- Updated alert dissemination; information to be shared, mechanisms for information sharing
- Pointing with neutrinos: methods and strategies
- Pre-supernova alert sensitivities and strategies

The workshop format will include invited talks, some talks selected from contributed abstracts, and a poster session. Early-career community members are especially encouraged to attend. Details concerning travel bursaries for graduate students will be placed on the workshop website prior to opening of registration. Underground tours of SNOLAB will be available on both June 14th and 17th, but tour spots are limited to 30 per day. Signup for tours will be part of the online registration.

Registration and abstract submission will open on March 1.
http://snews2.0.snolab.ca/
The organizing committee Alec Habig (U. of Minnesota, Duluth), Rafael Lang (Purdue University), Danny Milisavljevic (Purdue University), Kate Scholberg (Duke University), Clarence Virtue (Laurentian University)
10th QCD@LHC Conference

15-19 July, 2019
Abstract Deadline, 30 June, 2019

Dear Colleagues,

We would like to announce the 10th QCD@LHC conference which will take place at the University at Buffalo (Buffalo, New York) from July 15-19, 2019.

The registration and call for abstracts are open; for more information see (https://indico.fnal.gov/event/19380/)

The registration fee is only 250 Dollars which includes a visit of the Niagara Falls.

For the parallel talks the deadline for abstract submission is June 30th.

There are five parallel session tracks with the topics:

1) Perturbative QCD and Monte Carlos (Conveners: Andy Buckley, Alexander Huss and Marek Schoenherr)
2) Jets, Substructure and Resummation (Conveners: Deepak Kar and Simone Marzani)
3) PDFs, $\alpha_s$ and soft QCD (Conveners: Stefano Carrazza, Paolo Gunnellini and Pavel Nadolsky)
4) Heavy Quarks / Top (Conveners: Wolfgang Altmannshofer and Pekka Sinervo)
5) EW, Higgs and BSM (Conveners: Falko Dulat, Shufang Su, Caterina Vernieri and Alessandro Vicini)

For further information and requests you can contact the organizers directly by email. For requests on specific parallel sessions you can contact the conveners directly.

The conference is part of an annual conference series bringing together theorists and experimentalists working on hard scattering processes at the CERN LHC, ranging from precision studies of Standard Model processes to searches for new particles and phenomena. The format of the conference is a combination of experimental and theoretical plenary review talks and parallel sessions, with the latter providing a particularly good opportunity for junior researchers to present their results. The aim is to foster discussions and collaboration between experimentalists and theorists working on collider physics related to the LHC.

Buffalo is located near the Canadian border and can be readily reached from Toronto and major US cities (Chicago, New York, Boston, Washington DC).

Looking forward to seeing you in Buffalo,

Ciaran Williams
Sal Rappoccio
Doreen Wackeroth
(Local Organizers)
Dear Colleagues,

This is the first announcement of the 2019 CTEQ Summer School on QCD and Electroweak Phenomenology, to be held at the University of Pittsburgh in Pittsburgh PA, USA on 16-26 July 2019.

In addition to a focused introduction to perturbative QCD and recent experimental results, this year’s school will include lectures and tutorials on Machine Learning and Monte Carlo methods and applications. The school is ideally suited for advanced graduate students and young postdocs. For further information, including application procedures, please refer to the Summer School website: http://cteq.org/schools/summer19 which is linked from the CTEQ webpage at http://www.cteq.org/ or contact cteq.school@gmail.com. Review of applications will begin on 15 March 2018.

Sincerely,

The CTEQ Summer School Organizers
BOOST 2019

22-26 July 2019

11th International Workshop on Boosted Object Phenomenology, Reconstruction and Searches in HEP

BOOST 2019 is the eleventh conference of a series of successful joint theory/experiment workshops that bring together the world’s leading experts from theory and LHC experiments to discuss the latest progress and develop new approaches on the reconstruction of and use of boosted decay topologies in order to search for new physics. This year’s workshop is hosted at the MIT Stata Center from 22-26 July 2019.

More information about this workshop is available at https://indico.cern.ch/e/boost2019 .

We look forward to welcoming you to BOOST in Boston!

Zeynep Demiragli, Philip Harris, Yen-Jie Lee, Matthew Schwartz, Jesse Thaler
Dear colleagues,

Abstract submission and registration are now open for the 2019 APS Division of Particles & Fields (DPF) Meeting.
More details can be found at: [http://dpf2019.northeastern.edu/](http://dpf2019.northeastern.edu/)

The deadline for abstract submission is **18 May**. 
The deadline for early registration ($350) is **30 June**. The deadline for late registration ($400) is **25 July**.

More information regarding the conference is summarized below, and detailed at the above website.

We look forward to your participation.

Best regards,
Emanuela Barberis and Toyoko Orimoto for the APS DPF 2019 Organizing Committee

The meeting brings the members of the Division together to review results and discuss future plans and directions for our field. It is an opportunity for attendees, including young researchers, to present their findings at multiple parallel and plenary sessions. Participants will also have the chance to talk with DOE and NSF representatives about funding opportunities. This is a major biennial meeting of the U.S. particle physics community, and it includes substantial international participation.

Topics covered will include: Higgs & Electroweak Physics; Top Quark Physics; Quark & Lepton Flavor; QCD & Heavy Ions; Beyond Standard Model Physics; Dark Matter; Cosmology & Dark Energy; Astroparticles & CMB; Field & String Theory; Particle Detectors; Accelerators; Computing, Analysis Tools, and Data Handling; Diversity & Inclusion; Education & Outreach.

Plenary and parallel sessions will take place in large lecture halls or classrooms on the Northeastern University campus, located in the heart of Boston.

Accommodation is available both on-campus in dorms, as well as off-campus in nearby hotels with a range of nightly rates.

More information can be found at: [http://dpf2019.northeastern.edu/](http://dpf2019.northeastern.edu/)
Student Travel Awards Available for DPF 2019

July 29-August 2, 2019

We are pleased to announce that the Division of Particles and Fields (DPF) will provide partial travel support for a limited number of students to attend the DPF 2019 Meeting, which will take place from July 29-Aug 2nd, 2019 in Boston, Massachusetts. For meeting details, see the DPF meeting website (http://dpf2019.northeastern.edu).

The travel award will be up to $300 in a travel reimbursement, depending on the number of travel award recipients. To be eligible for the award, a student must be presenting a paper or poster and must be a student at a U.S. educational institution. Applications from graduate and undergraduate students presenting results based on their research will be considered on an individual basis. Applicants must be members (or applicant members) of the DPF. Details on a free one-year student trial APS membership can be found at the Student Membership web page. Students can join the DPF unit when they apply for APS membership. Preference will be given to students who do not have support from another APS division.

To be considered for an award, students should submit an email request to Andre Luiz De Gouvea (degouvea@northwestern.edu) by 5:00 p.m. PST on June 15, 2019. The request should include their university affiliation, thesis (faculty) adviser, expected date of degree completion, and the abstract number and title of the paper or poster they are presenting at the meeting, and optionally, gender and minority status information. The request should also include a follow-up letter of recommendation from the student's faculty supervisor, to be transmitted by that supervisor to the same email address by the same date. Students from underrepresented groups are strongly encouraged to apply. Please note that requests received after the deadline will not be considered.

Please take advantage of this opportunity to promote student participation in the DPF Meeting in Boston, MA

Emanuela Barberis
Dear All,
On behalf of the APS Mitsuyoshi Tanaka Dissertation Award Selection Committee, I would like to encourage you to nominate deserving students for this prestigious honor. Details about the award and the nomination and selection process can be found at the APS website (https://www.aps.org/programs/honors/prizes/tanaka.cfm) and the nomination deadline has been extended until July 30, 2019.

The Tanaka Dissertation Award, established in 1999 in memory of Dr. Mitsuyoshi Tanaka, provides recognition to outstanding young scientists for original doctoral thesis work of exceptional scientific quality and achievement in experimental particle physics. This annual award includes a $1500 prize, and aesthetically attractive certificate, and a travel reimbursement/registration waver to allow the recipient to receive the award and present an invited talk at an APS April meeting or DPF meeting.

For this year's award, students are eligible for nomination if they have passed their thesis defense between June 2, 2018 and June 1, 2019. Please consider nominating your outstanding doctoral students, and encourage your colleagues to do the same, so that we can be sure to recognize the remarkable scientific contributions that are being made by students in the field.

Best Regards,
Christopher Rogan
Mitsuyoshi Tanaka Dissertation Award Selection Committee Chair
The program for 29th International Conference on Lepton Photon Interactions is now almost complete and available at:
https://indico.cern.ch/event/688643/timetable/?view=nicecompact

We are very excited to see the overwhelming response to our call for abstracts, for the parallel sessions. We are in the process of finalising the 75 talks that will fill those sessions. Details should start appearing on INDICO in the next few weeks.

If you’re thinking of attending the meeting, why not take advantage of our discounted early registration that is only available through the end of this month at: http://www.leptonphoton2019.ca. When registered you will also have access to preferred room rates at the Westin Harbour Castle hotel, site of the meeting.

We look forward to welcoming the international particle physics community to Toronto from the 5th to 10th of August and to your contributions to the meeting.
Dear Colleagues:

The 47th SLAC Summer Institute will take place 12-23 Aug 2019. The theme will be the broad landscape of flavor physics associated with quarks, charged leptons and neutrinos. Lectures will cover contemporary theoretical developments, current experimental results and future frontiers, as well as discussions of the various flavor puzzles and anomalies. The program will also include discussions of the fundamental origin of the Standard Model family structure and the prospects towards the next level of insight.

Lectures will be given in the mornings during both weeks. Afternoons include additional lectures and topical talks which alternate with discussion sessions, student project sessions and tours. Evening events include poster sessions and social activities.

The full program and further details can be found on the SSI website: [https://conf.slac.stanford.edu/ssi2019](https://conf.slac.stanford.edu/ssi2019)

SSI has a long tradition of offering comprehensible lectures for advanced graduate students & postdoctoral fellows while senior researchers are also welcome. Students and postdoctoral fellows are encouraged to contribute to the poster sessions.

If you have further questions, please contact us at mherraez@slac.stanford.edu

We hope to see you at SLAC this summer for SSI 2019!

The SSI 2019 Program Directors,

Wolfgang Altmannshofer, Mark Convery, Lisa Kaufman, Greg Madejski, Su Dong, Rich Partridge, Charlie Young, and Tom Rizzo (chair)
2019 Wu-Ki Tung Award for Early-Career Research on QCD

Deadline: 15 August, 2019

Dear Colleagues,

We are pleased to announce this year's nomination phase for the 2019 Wu-Ki Tung Award for Early-Career Research on QCD. The Wu-Ki Tung award is to recognize outstanding contributions made by early-career physicists on experimental or theoretical research on Quantum Chromodynamics. The award is given annually and will consist of $5,000, a certificate citing the contributions of the recipient and support for travel to a CTEQ Summer School to deliver an invited lecture. Nominees must have received a Ph.D. in experimental or theoretical particle physics within the last seven years, excluding any career breaks, by the time of nomination. Further details on the nomination and selection process may be found on the following website:

http://www.uic.edu/~varelas/tung_award/

We encourage you to nominate outstanding young scientists for this award. You may do so at the following website.

https://academicjobsonline.org/ajo/jobs/13807

The deadline for nomination is August 15, 2019. Nominations will remain active for one additional year and can be updated. The recipient will be selected by the CTEQ Collaboration and will be notified in December 2019.

Best regards,
Nikos Varelas, Cynthia Keppel, and Pavel Nadolsky
for the CTEQ Collaboration
The 2019 CERN-JINR European School of High-Energy Physics (ESHEP2019) will take place in St. Petersburg, Russia, 4-17 September 2019.

The School is targeted particularly at students in experimental HEP who are in the final years of work towards their PhDs, although candidates at an earlier or later stage in their studies may be considered. The deadline for applications is 19 April 2019. Sponsorship may be available for a few students from developing countries.

Further details are available here: https://indico.cern.ch/event/798971/

Regards,
Nick Ellis and Martijn Mulders
(On behalf of the Organising Committee)
Dear colleague,

We are pleased to inform you that the Conference "Instrumentation for Colliding Beam Physics" (INSTR20) will be jointly organized by the Budker Institute of Nuclear Physics and Novosibirsk State University and held in the Budker Institute, Novosibirsk, Russia in the period from 24 to 28 February, 2020.

Registration is already opened on the website: http://instr20.inp.nsk.su

You are kindly invited to participate and register at your earliest convenience. Please also inform all potentially interested colleagues and encourage them to register.

Looking forward to meeting you in Novosibirsk in February 2020.

Organizing Committee
DPF Membership

If you are reading this, you are likely a DPF member already, and you already know that the DPF drives the U.S. particle physics community planning process, connects to other divisions and to a broader international community, and provides networking and resources for its members (for example, student travel support to meetings). The more DPF members we can engage, the more APS resources we have access to, and the stronger our community will be. International members are very welcome.

Please forward the information below to your students and colleagues. Information on how to check unit membership is included.

APS Unit Membership Information
Here are general benefits of APS membership:
http://www.aps.org/membership/benefits.cfm

If you are not an APS member, you can join here:
https://www.aps.org/memb-sec/join/startpage.cfm

Students can join at a reduced rate, and for free for their first year:
http://www.aps.org/membership/student.cfm

If you are already an APS member, and you are not sure if you are also a DPF member, you can check whether you are by doing the following:
Go to the member page:
https://www.aps.org/membership/index.cfm

Sign in at “My member profile,” and click on the “membership” tab. To add a unit, click on the “Add Unit” button.