

July 2019 DPF Newsletter

Dear DPF members,

Please find below the monthly DPF newsletter for July 2019. This newsletter will be archived on the DPF website.

If you would like an announcement included in the August newsletter, to be sent out around August 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, rvankoot@indiana.edu

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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 that will take place at the University at Buffalo (Buffalo, New York) on 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 that 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, α_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 Wackerroth
(Local Organizers)

2019 CTEQ Summer School: University of Pittsburgh, USA

16-26 July 2019

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> that 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 on 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

2019 APS Division of Particles and Fields Meeting

July 29 – August 2, 2019

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/>

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/>

Tanaka Dissertation Award

Deadline: July 30, 2019

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, an aesthetically attractive certificate, and a travel reimbursement/registration waiver 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

29th International Symposium on Lepton Photon Interactions at High Energies

August 5-10, 2019

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.

47th SLAC Summer Institute

August 12-23, 2019

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 that 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>

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

2019 CERN-JINR European School of High-Energy Physics (ESHEP2019)

September 4-17, 2019

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 at: <https://indico.cern.ch/event/798971/>

Regards,

Nick Ellis and Martijn Mulders

(On behalf of the Organising Committee)

Topics in Cosmic Neutrino Physics

October 9—11, 2019



Dear colleagues,

We announce a workshop on “Topics in Cosmic Neutrino Physics” 9—11 October 2019 at Fermilab.

<https://indico.fnal.gov/event/20434/>

Topics in Cosmic Neutrino Physics is the inaugural workshop of the Cosmic Physics Center at Fermilab. The goal of the workshop is to bring members of the neutrino physics, neutrino astrophysics, and cosmology communities together to exchange information and better understand what each is doing and what they do (and don't yet) know. The structure of the workshop will be designed to survey the core questions in each area and stimulate intense discussion/collaboration among the participants. In addition to the invited talks, there also will be discussion sessions organized around the main themes of the workshop.

We encourage you to register and to share this email with your colleagues.

We look forward to seeing you there!

Best regards,

Gordan Krnjaic, Dan Hooper, Josh Frieman, Marilena Loverde, John Beacom, Ornella Palamara, Pedro Machado, and Matthew Toups

International Workshop on Future Linear Colliders (LCWS-2019)

October 28 – November 1, 2019

Registration is now open for LCWS2019.

The 2019 International Workshop on Future Linear Colliders (LCWS 2019) will be held in Sendai, Japan, from October 28 (Monday) to November 1 (Friday) at the Sendai International Center. It follows the successful recent workshops in Strasbourg, France (LCWS 2017) and Arlington, Texas (LCWS 2018).

Registration is now open at the workshop home page:

<http://epx.phys.tohoku.ac.jp/LCWS2019/>

As with previous workshops in the series, it will cover the physics, detector, and accelerator issues of CLIC and the ILC. It comes as the European Particle Physics Strategy Update is in its final phase, and as the Japanese government approaches a decision on hosting the ILC.

There will be exhibitions and a special session on relevant industries.

The meeting coincides with the peak of autumn foliage with many popular spots in the surrounding area. Autumn is also the season for the harvest.

We're looking forward to seeing you in Sendai!

Jim Brau, Shin Michizono, Steinar Stapnes Co-chairs, LCWS 2019 Program Committee

Hitoshi Yamamoto
Chair, Local Organization Committee

Instrumentation for Colliding Beam Physics (INSTR20)

24-28 February, 2020

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