

September 2021 DPF Newsletter

Dear DPF members,

Please find below the monthly DPF newsletter for September 2021. This newsletter will be archived on the DPF website. If you would like an announcement included in the October 2021 newsletter, to be sent out around October 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

Contents

The Snowmass Day.....	2
Call for DPF Instrumentation Award Nominations	3
Call for DPF Mentoring Award Nominations	4
Call for Sakurai Dissertation Award Nominations	5
Call for Tanaka Dissertation Award Nominations.....	6
Call for Abstracts - TAU2021 Virtual Workshop.....	7
ILC Workshop on Potential Experiments (ILCX2021)	8

The Snowmass Day

24 September, 2021

To get all the frontiers and participants back together on the same page and refocus our attention to the Snowmass activities, we will hold a half-day zoom meeting, the “Snowmass Day”, on September 24, 2021. In the 2-hour plenary session, all frontiers will lay out their plans for the upcoming and future activities. The follow-up breakout sessions will provide the opportunity to discuss frontier's status and future plans in details, and cross-talk and inter-connect with other frontiers. We encourage your active participation and please register at <https://indico.fnal.gov/event/50538/overview>

The program and Zoom link information is also available at the indico site.

Call for DPF Instrumentation Award Nominations

Nomination Deadline: **30 September, 2021**

The **DPF Instrumentation Award** and **DPF Instrumentation Early Career Award** are bestowed annually to honor exceptional contributions to instrumentation advancing the field of particle physics through the invention, refinement, or application of instrumentation and detectors. The awards recognize accomplishments in one or more of the following areas:

- Conceptualization and development of unique instrumentation that has made a significant impact on the field.
- Demonstration of the innovative use of instrumentation.
- Stimulation of other researchers to use new techniques and methods.
- Authorship of research papers or books that have had an influential role in the use of instrumentation.

The **DPF Instrumentation Award** recognizes outstanding achievements in particle physics instrumentation that have had a major impact on the field through the awardee's dedication over a substantial portion of an entire career, while the **DPF Instrumentation Early Career Award** recognizes achievements having a significant impact at an early career stage. For the purpose of this award, the early career stage is taken to be approximately 15 years from a Ph.D. or other terminal degree, with due account for interruptions and other factors in nominees' careers.

Award recipients will be invited to present a lecture at the 2022 CPAD meeting.

Complete nominations have:

- A nominating letter of not more than 5,000 characters, about two pages.
- A biographical sketch or CV.
- At least two, but not more than three, seconding letters.

Nominations for the 2021 award will be accepted through Academic Jobs Online (AJO) from now through **September 30th, 2021**. Nominations will remain active for three years. The nominating letter and the CV should be uploaded to <https://academicjobsonline.org/ajo/jobs/18758>, click the "Nominate" link under "Description".

The names and email addresses of the supporting letter-writers should also be included in the nomination packet. The membership of APS is diverse, so the nominees should reflect that diversity. The nomination of women or members of underrepresented minority groups is therefore strongly encouraged. The membership is also global, so nominations of scientists from outside of the United States are welcome.

See <https://engage.aps.org/dpf/honors/prizes-awards/instrumentation-award> for further information and past recipients.

If you have any questions about the award, please contact the award chair, [Gabiella Carini](#).

Committee:

- Gabriella Carini (Chair): carini@bnl.gov
- Andrew White (vice-Chair): awhite@uta.edu
- Juan Estrada: estrada@fnal.gov
- Ulrich Heintz: ulrich_heintz@brown.edu
- Jennifer L. Raaf: jlraaf@fnal.gov
- Paolo Rumerio: rumerio@cern.ch
- Lindley Winslow: lwinslow@mit.edu
- Jinlong Zhang: zhangjl@anl.gov

Call for DPF Mentoring Award Nominations

Nomination Deadline: **30 September, 2021**

The Division of Particles and Fields of the American Physical Society has established an award to honor exceptional mentoring, broadly defined, to be bestowed annually.

This APS Unit Award is intended to recognize DPF members who have had an exceptional impact as mentors of particle physics scientists and students. This mentoring could be through teaching or research or science-related activities and is meant to recognize current achievements as well as those spanning a career.

Examples of contributions honored by this award include:

- Exceptional mentoring of early career particle physicists
- Sustained commitment to mentoring early career particle physicists from traditionally under-represented backgrounds
- A leadership role in developing early career research and career development activities.

The award consists of a certificate indicating the citation chosen by the selection committee, to be awarded at the next DPF Meeting. DPF will reimburse reasonable travel expenses for travel to the award ceremony.

Award Nomination Deadline: September 30, 2021

The Division of Particles and Fields of the American Physical Society is pleased to announce that the **Call for Nominations** for the 2021 Mentoring Award is now **open**.

Successful applications have included letters from students, post-docs, and faculty members. Early career particle physicists include undergraduate and graduate students; postdoctoral scholars; and professionals early in their careers, such as assistant professors or assistant scientists.

Nomination packets should consist of

- a cover letter
- at least three but not more than four letters supporting the nomination
- a brief biographical sketch or CV of the candidate; and
- a list of past and current mentees, with the role of the mentor specified for each, and contact information, where possible.

Some past mentees may be contacted during the review process. At least two of the letters of support should be submitted by individuals who have benefited directly from the nominee's mentoring. There are no time limitations on contributions that can be recognized by this award. Only one nomination per candidate will be accepted (no multiple nominations). Nominations will be active and considered for three years. Please contact the chair of the Award Committee to determine if a potential nominee has an active nomination.

Nominations for the 2021 award will be accepted through Academic Jobs Online (AJO) (<https://academicprogramsonline.org/ajo/award/18811>) through **September 30, 2021**.

Click the "Nominate" link and you will be guided through the process. Nominators should submit the cover letter, the nominee's biographical sketch or CV, the list of mentees, and the names and email addresses of the letter-writers. Contact the Award Committee if you experience difficulties with the site or have questions.

2021 Award Committee:

- Pearl Sandick, Chair, U. of Utah
- Tim M.P. Tait, Chair Elect, UC Irvine
- Tesla Jeltema, UC Santa Cruz
- Josh Klein, U. Penn.
- Konstantin Matchev, U. of Florida

Call for Sakurai Dissertation Award Nominations

Nomination Deadline: **1 October, 2021**

Dear All,

On behalf of the DPF division of the APS we would like to encourage you and your colleagues to nominate outstanding students in Theoretical Particle Physics for the

- 2022 Sakurai Dissertation Award in Theoretical Particle Physics

and remind you that the deadline is approaching: October 1, 2021.

Information on rules and eligibility as well as nomination guidelines are available at:

<https://www.aps.org/programs/honors/prizes/particle.cfm>

We are looking forward to receiving your nominations and will be glad to answer questions you might have.

With best regards,

The 2022 Sakurai Dissertation Award Committee:

- Gary Shiu (Chair)
- Stefania Gori (Vice-Chair)
- Linda Carpenter
- Hai-bo Yu
- Patrick Meade (advisor of 2021 winner)

Call for Tanaka Dissertation Award Nominations

Nomination Deadline: **1 October, 2021**

The Mitsuyoshi Tanaka Dissertation Award in Experimental Particle Physics provides recognition to exceptional young scientists who have performed doctoral thesis work of outstanding scientific quality and achievement in the area of experimental particle physics. Nominees from all of the areas of research that compose experimental particle physics are welcomed. The annual award consists of \$1,500, a certificate citing the accomplishments of the recipient, and an allowance of up to \$1,000 for travel to attend the APS April Meeting 2022, at which the award will be presented. Further details can be found on the award webpage (<https://www.aps.org/programs/honors/prizes/tanaka.cfm>).

The nomination deadline is October 1, 2021. First-time nominees must have passed their thesis defense between June 2, 2020 and August 31, 2021. A candidate may be renominated once for this award in the year following their original nomination. Nominations and detailed supporting documentation should be submitted via the link on the award webpage.

The membership of APS is diverse and global, and the nominees and recipients of APS Honors should reflect that diversity so that all are recognized for their impact on our community. Nominations of members belonging to groups traditionally underrepresented in physics, such as women, LGBT+ scientists, scientists who are Black, Indigenous, and people of color (BIPOC), disabled scientists, and scientists from outside the United States are especially encouraged.

2022 Tanaka Dissertation Award Committee:

- Kevin McFarland (Chair)
- Tom Browder
- Melissa Franklin
- Petar Maksimovic
- Mayda Velasco

Call for Abstracts - TAU2021 Virtual Workshop

27 September, 2021 – 1 October, 2021

Dear Colleagues:

The 16th International Workshop on Tau Lepton Physics (TAU2021) will now be a Virtual online workshop only, hosted by Indiana University.

DATES: September 27, 2021 – October 1, 2021, 8:00 a.m. (EST) to approx. 3:00 pm (EST) daily

The goal of the workshop is to bring theorists and experimentalists together to discuss recent progress in the field. Latest results on the study of tau leptons at e^+e^- and hadron colliders will be reported, as well as relevant results from the world-wide neutrino and muon programs. Properties of the tau lepton, as well as methods of using tau leptons as probes for new physics, will be discussed, along with status reports on future experimental projects.

Session topics will include:

- Properties of the tau lepton
- Inclusive and exclusive hadronic tau decays
- Test of fundamental symmetries with tau lepton
- Anomalous magnetic moment of the muon
- Neutrino Physics and Dark Matter
- Proton-proton and e^+e^- colliders
- Early Career Paths
- Future directions in tau lepton physics

Website: <https://indico.cern.ch/e/TAU2021>

Registration: There is no registration fee, but registration is required in order to receive the Workshop Zoom online link. Registration is open now online at <https://indico.cern.ch/event/848732/registrations/53503/>

Local organizing committee: Emilie Passemar (Chair), Swagato Banerjee (Vice-Chair), Jon Urheim (Vice-Chair), Hal Evans, Sergi Gonzalez-Solis, J. Timothy Londergan, Will Jacobs, Mark Messier, Ryan Mitchell

Email: tau2021@indiana.edu

Best regards,
Emilie Passemar
on behalf of the TAU2021 Organizing Committee

ILC Workshop on Potential Experiments (ILCX2021)

26-29 October, 2021

<https://agenda.linearcollider.org/event/9211/>

With the anticipation that the ILC will be realized in the near future, the ILCX Workshop will present a forum for discussions about all possible experimental opportunities at the ILC laboratory. The Workshop is organized by the ILC International Development Team (IDT) and hosted by KEK and the JAHEP ILC Steering Panel.

The Workshop will include presentations on:

- all aspects of the ILC collider program, including reviews of the established detector concepts, ideas for new detector technologies and concepts, detector performance and physics reach
- ideas for enhancements of the collider program, including far-forward and remote detectors
- ideas for fixed-target experiments using ILC beams, including beam dump experiments and experiments at dedicated fixed target halls, addressing particle physics questions but also questions in nuclear physics and condensed matter physics
- new developments in the ILC community, including theory, software and computing, detector engineering, accelerator design, machine-detector interface, and presentations from industry

Contributed papers are welcome. We are especially eager to see new ideas put on the table that may require additional infrastructure and civil engineering, so that these can be incorporated into the ILC site planning at an early stage.

Because of the COVID-19 situation, the presentations at the meeting will mainly be remote. However, there is still the possibility that the meeting will be given in a hybrid format, with in-person participation at KEK. This decision will be made by early September. There would be an opportunity for in-person participants to visit the ILC site.

Registration for the Workshop is now open at:

<https://agenda.linearcollider.org/event/9211/registrations/>