



# The Physics Observer

February 4<sup>th</sup>, 2020

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## UPCOMING EVENTS

- February 14-16, 2020: [AAAS Annual Meeting](#)
- March 24-27, 2020: [Axions Beyond Gen 2](#)
- May 30-June 1, 2020 [Summitting the Unknown: Celebrating the Legacy of Ann Nelson](#)
- July 11-20, 2021 [Snowmass 2021 High Energy Physics Community Planning](#)

## PHYSICS COLLOQUIA

- Wednesday, February 5, 2020-4:00pm to 5:00pm, PAA 102:  
[Many Body Effects of Chiral Edge Fermions](#), Biao Lian, Princeton
- Monday, February 10, 2020-4:00pm to 5:00pm, PAA 102:  
[Many-Body Quantum Chaos: an Entanglement Perspective](#), Laimei Nie, Chicago

## Welcome

The Physics Observer is a periodic bulletin of happenings in and around UW Physics. Our goal is to share information of notable happenings, events, and news associated with the department. Please feel free to pass this newsletter to anyone who may be interested. Readers wishing to subscribe, or unsubscribe, may do so [here](#). Previous newsletters may be found on the physics website at [The Physics Observer Newsletter](#). Information for future editions may be sent to the editor, [Alexis Hall](#).

## Chair's Corner (L. Yaffe)

I must begin this first newsletter of 2020 with some sad news. One of our undergraduate Physics majors, Steven Santos, passed away recently. Steven was active in the Physics and Astronomy community, the University Chorale, and the Filipino American Student Associate. Donations for a memorial scholarship in Steven's name may be made at <https://www.gofundme.com/f/steven-santos-memorial-fund>, with memorial information [here](#). A condolence book is on the Student Services desk in the Physics main office; please write a note in the book if you knew Steven.

On a positive note, please welcome our new staff: student services program assistant, Amy Glenz, fiscal specialist Sandy Chudler in the main office, and starting in two weeks, Sean Bayless in lecture demo.

The latest addition to the upcoming special events which will be hosted here is more than a year away, but will be big, very big. The UW has been selected as the site of the final "Snowmass 2021" meeting which is the culmination of a year-long community planning process in high energy physics. It will bring upwards of 1000 particle physicists here during [July 11-20, 2021](#). Professors Shih-Chieh Hsu and Gordon Watts are the local organizers. More information at <https://www.aps.org/units/dpf/snowmass-2021.cfm> and <https://www.aps.org/units/dpf/newsletters/upload/January-2020-Newsletter-rev2.pdf>.

More immediately, students wishing to receive free registration at the [February 13-16, 2020 AAAS meeting](#) in Seattle, in exchange for a few hours of on-site volunteering, should sign up at <https://meetings.aaas.org/attend/student-session-aides/>. Faculty, postdocs or grad students interested in volunteering as judges or proctors in the E-poster competition should apply [here](#). Deadline for these sign-ups is **Feb 5<sup>th</sup>, 2020**.

Finally, the UW Career & Internship Center is hosting a pop-up event on **April 3<sup>rd</sup>, 2020** for students wishing help with suitable professional attire. Donations of suitable new or gently used clothes are solicited and may be dropped off at the Career Center in 134 Mary Gates Hall up until **March 20<sup>th</sup>, 2020**. (Suggested items [here](#).) Cash donations also welcome: [https://uwccstore.washington.edu/product\\_p/dfs-19.htm](https://uwccstore.washington.edu/product_p/dfs-19.htm).

## Milestones & Arrivals

- ❖ Amy Glenz joined Physics Student Services as a Program Assistant.
- ❖ Sandy Chudler joined the fiscal staff, handling machine shop accounts.

## Research Awards and Grants

- ❖ Professor Gerald Miller received 18K US DOE grant for computing the properties of matter.
- ❖ Professor Henry Lubatti received 75K Brookhaven National Laboratory grant for HL-LHC Pixels IST.

- Wednesday, February 12, 2020-4:00pm to 5:00pm, PAA 102:  
[Title TBA](#), Masha Baryakhtar, NYU
- Wednesday, February 19, 2020-4:00pm to 5:00pm, PAA 102:  
[Title TBA](#), Ken Van Tilburg, Kavli Institute for Theoretical Physics
- Wednesday, February 26, 2020-4:00pm to 5:00pm, PAA 102:  
[The Search for Topological Phases of Matter](#), Ashley Cook, UC Berkeley

### [SEMINARS](#)

See [Here](#)

### [CONTACT US](#)

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## Funding and Meeting Announcements

UBC & University of Washington Collaborative Research Mobility Award: Are your faculty collaborating with faculty at the University of British Columbia, or would they like to? Funding is available to support such collaborations. Sponsor due date is **February 10, 2020**. More information [here](#).

2019 Call for Proposals of the Thomas Jefferson Fund is now open until **February 24<sup>th</sup>, 2020**. This program, launched by the Embassy of France in the United States and the FACE Foundation, aims to encourage and support cooperation among the most promising young French and American researchers, and foster forward-looking collaborative research projects. Each selected French-American project will receive up to \$20,000 over a period of two years. Interested parties are invited to get more information and to apply [here](#).

DARPA is proud to host the 2020 Electronics Resurgence Initiative (ERI) Summit & MTO Symposium, scheduled for August 18 – 20, 2020 in Seattle, Washington. ERI is delivering promising results that will not only enhance national security but also contribute to the development of the larger microelectronics sector. To ensure that these results transition to the community, the 2020 Summit will showcase performer technical achievements and demonstrations while highlighting leading voices from end users in the semiconductor and defense sectors. As with previous Summits, the 2020 event will also feature informative poster and networking sessions, as well as a series of collaborative workshops where attendees are encouraged to share new ideas. More information [here](#).

"Destination Europe", a one-day showcase of research and funding opportunities in Europe available to people of any nationality, will be held in the HUB Lyceum (HUB 160) on Thursday, February 13, 2020. More information and registration (free, but registration required) at <https://jsis.washington.edu/euwesteurope/destination-europe-research-and-innovation-opportunities-in-the-european-union/>.

## Job Opportunities

- ❖ Multiple positions for full-time instructors in a new "Exploratory Studies" degree program in the College of Arts and Science at the University of Nebraska, Omaha. See: <https://unomaha.peopleadmin.com/postings/10312>. Review of applications begins **February 10<sup>th</sup>, 2020**.
- ❖ [Contract Faculty and Department Chair of Applied Physics](#), New York University, Department of Applied Physics
- ❖ [Assistant Research Professor of Astronomy and Astrophysics](#), Pennsylvania State University College of Science Astronomy and Astrophysics
- ❖ [Associate / Full Professor of Theoretical Biophysics](#), University of California San Diego, Department of Physics
- ❖ [Assistant Professor of Organic and Medicinal Chemistry](#), University of California San Diego, Department of Chemistry and Biochemistry
- ❖ [Lecturer in Physics](#), University of Washington, Physical Sciences
- ❖ [Assistant Scientist in Experimental High Energy Physics](#), University of Florida, Department of Physics
- ❖ [Assistant Professor of Dark Matter / Neutrino Physics](#), University of Toronto

## Selected Publications

- ❖ "A Paul Trap with Sectorized Ring Electrodes for Experiments with Two-Dimensional Ion Crystals," M. K. Ivory, A. Kato, A. Hasanzadeh, B. Blinov, <https://arxiv.org/abs/2001.05013>.
- ❖ "Layer-Resolved Magnetic Proximity Effect in van der Waals Heterostructures," D. Zhong, K. Seyler, X. Linpeng, N. Wilson, Kai-Mei C. Fu, Xiaodong Xu, et al., <https://arxiv.org/abs/2001.03861>.
- ❖ "2D van der Waals nanoplatelets with robust ferromagnetism," P. Malinowski, Q. Jiang, Z. Lin, X. Xu, J.-H. Chu, et al., <https://arxiv.org/abs/2001.04594>.