



The Physics Observer

Mar 10, 2023

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UPCOMING

EVENTS

Friday, March 10, 2023

- 4:00pm, NPL 178

[Final Exam: Results](#)

[from a 3.1 kg day](#)

[Target Exposure with](#)

[Skipper CCDs from](#)

[DAMIC at SNOLAB](#)

[and other Beyond the](#)

[Standard Model](#)

[Searches with](#)

[Semiconductor](#)

[Detectors](#)

[Alexander Piers](#)

(Advisor: Alvaro)

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, physrecp@uw.edu.

Chair's Corner (L. Yaffe)

Today's note is being written on March 8, which is International Women's Day. This is my 35th year in the UW Physics department, and over that period there has been much change in the faculty composition. When I joined the UW there was a single female Physics faculty member, Lillian McDermott. Today, we have a dozen, with one more arriving next autumn. Over the same period, the gender diversity among our students and postdocs has also greatly increased. Working to ensure a welcoming, supportive and productive environment for all students, staff and faculty is an ongoing concern, but I want to acknowledge the progress which has been made in broadening participation within our Physics community.

Winter quarter classes end this week, with finals next week. Outside, it finally felt like spring was arriving earlier this week, with flowers blooming and some warmer temperatures. I hope everyone has an enjoyable spring break!



Milestones & Arrivals

★ [Instrument Maker Kenneth Thompson](#) celebrates 15 years with UW

Research Awards & Grants

- ❖ [Professor Emeritus John Rehr](#) received \$258K from SLAC National Accelerator Laboratory for the Theory Institute for Materials and Energy Spectroscopies.
- ❖ [Associate Professor Shih-Chen Hsu](#) received \$7K from Brookhaven National Laboratory for "Pixels Front-End Chip."

Chavarria), University of Washington

Thursday, March 16, 2023 - 3:30pm, PAT C-520 & Zoom
[InQubator for Quantum Simulation \(IOuS\): Implementing a Z2 Lattice Gauge Theory in a Digital Quantum Simulator](#)
Julius Mildenberger,
University of Trento

Wednesday, March 29, 2023- 5:30-6pm, HUB Lyceum & Livestream
[Rocking the world of physics: the 46th annual University Faculty Lecture](#)
David Hertzog,
University of Washington

GENERAL EXAMS

Friday, March 3, 2023 - 10:00am, PAT C-108
([Jules Berlin Nde Kengne](#))

SOCIAL MEDIA

[Instagram](#)

[Facebook](#)

[YouTube](#)

[Twitter \(@physicsuw\)](#)

[Vimeo](#)

[Pinterest](#)

- ❖ [Associate Professor Shih-Chen Hsu](#) also received \$160K from Lawrence Berkeley National Laboratory for “A Fair Universe: Unbiased Data Benchmark Ecosystem for Physics.”
- ❖ [Professor Steven Sharpe](#) received \$316K from the US Department of Energy for the Theory of Particles, Fields and Strings 2020.
- ❖ [Assistant Professor Alvaro Chavarria](#) received \$150K from the National Science Foundation for US Participation in KATRIN under “Experimental Nuclear Physics.”
- ❖ [Affiliate Professor Margaret Cheung](#) received \$10K from the Pacific Northwest National Laboratory for “Bioinspired Durable Storage of CO₂.”
- ❖ [Professor Gordon Watts](#) received \$27K from the Brookhaven National Laboratory for the US ATLAS IRIS-HEP Institute Buyout 2023.

Assorted Talks & Meetings

March 20-22, 2023, [APS virtual March Meeting](#)

March 21-24, [AAAS Pacific Division annual meeting](#), Western Washington Univ., Bellingham

April 14, [World Quantum Day](#), sign-up deadline February 17.

April 15-18, 2023, [APS in-person April Meeting](#), Minneapolis;

April 24-26, 2023, [APS virtual April Meeting](#);

July 24-28, 2023, Environmental Molecular Sciences Laboratory Summer School, [Demystifying Multiomics with Data Science](#), application deadline March 31, 2023.

Funding Announcements

Applications solicited for [NIST Precision Measurement Grants](#), 50K/yr for up to three years, deadline March 22, 2023.

Applications solicited for the ETS funded [Bob Moses scholarship](#), 15K to a graduate student from an underrepresented group, deadline April 3, 2023.

Proposals solicited for UW [Student Technology Fee grants](#), deadline April 6, 2023.

[NRC fellowships](#) at [multiple federal facilities](#) for postdocs and senior researchers. Spring application cycle deadline May 1, 2023.

Applications open for DOE Office of [Science Graduate Student Research](#) (SCGSR) awards, supporting research at DOE national labs. Deadline May 3, 2023.

Job Opportunities

- [Lecturer](#) in Physics, University of Georgia

Selected Publications

Modulated Floquet parametric driving and non-equilibrium crystalline electron states, M. Rudner, et al., [arXiv:2303.02148](#)

Magnetotransport on quantum spin Hall edge coupled to bulk midgap states, E. Runburg, D. Cobden, et al., [arXiv:2302.12282](#)

Light front synchronization and rest frame densities of the proton: I. Electromagnetic densities, A. Freese, G. Miller, [arXiv:2302.09171](#)

UW Coronavirus Response Information

- Current pandemic information on the [UW Covid-19 tracking dashboard](#).
