



The Physics Observer

Oct 5, 2023

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EVENTS

**Monday, October 9,
2023 - 4:00pm, PAA
A-102**
[Physics Colloquia:
Programmable control of
indistinguishable particles:
from sampling to clocks to
qubits](#)
Adam Kaufman,
University of Colorado,
Boulder

**Tuesday, October 10,
2023 - 3:00pm, PAT
C-421**
[Particle Theory: A
loophole in the proofs of
quantum triviality and
asymptotic freedom](#)
Paul Romatschke,
University of Colorado,
Boulder

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)

Autumn quarter is underway. Last week the department's Welcome Back barbeque lunch was held on what turned out to be one of the wettest days of the year. The food, by all accounts, was still good.

Three new assistant professors have joined our faculty this quarter: particle theorists Isabel Garcia Garcia and Gustavo Joaquin Turiaci, and neutrino experimentalist Elise Novitski. Welcome all! As noted below, Elise is this year's recipient of the APS Stuart Freedman Award in Experimental Nuclear Physics, a notable honor.

I hope to see many of you at our upcoming Frontiers of Physics Public Lecture, *More perfect than we imagined: A physicist's view of life*, 7:30 pm on October 17, which will be given by Professor William Bialek of Princeton University.

Milestones & Arrivals

- ★ Assistant to the Chair/ HR manager [Alison Alcoba](#) celebrates 10 years with UW.
- ★ Professor [David Hertzog](#) celebrates 15 years with UW.

Awards & Grants

- Assistant professor [Elise Novitski](#) is the 2023 recipient of the APS Stuart Freedman Award in Experimental Nuclear Physics.
- Associate professor [Armita Nourmohammad](#) has received an allocation of 200K node-hours from the DOE Environmental Molecular Sciences Laboratory.

Assorted Talks & Meetings.

- ❖ October 19, 2023, [QuantumX public lecture. What's next in computing](#), Dario Gil, IBM, 7:30pm Kane 130.

Wednesday, October 11, 2023 - 4:00pm, PAA A-102

Physics Colloquia:
Quantum alchemy with two-dimensional materials
Matthew Yankowitz,
University of Washington

Monday, October 16, 2023 - 4:00pm, PAA A-102

Physics Colloquia: TBA
Tom Hartman, Cornell University

Tuesday, October 17, 2023 - 3:00pm, PAT C-421

Particle Theory: Progress in calculating multiparticle amplitudes from lattice QCD
Stephen Sharpe,
University of Washington

Tuesday, October 17, 2023 - 7:30-9pm, Kane 130

Frontiers of Physics
Lecture Series: More perfect than we imagined: A physicist's view of life
William Bialek, Princeton University

Monday, October 23, 2023 - 4:00pm, PAA A-102

Physics Colloquia: TBA

Monday, October 30, 2023 - 4:00pm, PAA A-102

Physics Colloquia: TBA

EXAMS

- ❖ October 21-23, 2023, [Annual Meeting of APS Northwest Section](#), Nampa ID.
- ❖ October 28, 2023, [Annual Meeting of the Washington Section](#) of the American Association of Physics Teachers, Central Washington University, Ellensburg WA.
- ❖ January 19-21, 2024, APS [Conference for Undergraduate Women in Physics](#), Montana State University. The [application](#) deadline is October 23, 2023.
- ❖ March 3-8, 2024, APS March meeting. The [abstract submission](#) deadline is October 20, 2023.

Funding Announcements

- Applications solicited for [Gordon and Betty Moore Experimental Physics Investigators Initiative](#) awards. Deadline **October 25, 2023**.
- Applications solicited for [Simons Collaborations in Mathematics and Physical Sciences](#), deadline **November 1, 2023**.
- Applications solicited for Two Sigma [PhD fellowship](#) and [Undergraduate Scholarship](#). Deadline **November 3, 2023**.
- Applications solicited for DOE [Office of Science Graduate Student Research](#) awards, funding thesis research at DOE national labs. Deadline **November 8, 2023**. Application assistance workshops (registration required) on [October 10](#).
- Applications solicited for undergraduate summer internships from the German Academic Exchange Service (DAAD). See [here](#) for information. Deadline **November 30, 2023**.
- Applications solicited for the APS [Congressional Science Fellowship](#). Deadline **December 1, 2023**.
- Applications solicited for [HHMI Gilliam fellowships](#) supporting biomedical or life sciences PhD students and their advisors. Deadline **December 7, 2023**.

Job Opportunities

- [Assistant professor](#), experimental astro-particle physics, UC Riverside.
- [Interdisciplinary program manager, office of workforce development](#), DOE.
- [Tenure-track faculty](#), University of Notre Dame.
- [Assistant Professor](#), Seattle University.
- [Tenure-Track Professor](#), Harvard University.
- [Assistant professor](#), theoretical high energy/particle cosmology, U. Penn.
- [Assistant professor](#), Bates College.

Selected Publications

Optical tuning of the diamond Fermi level measured by correlated scanning probe microscopy and quantum defect spectroscopy, C. Pederson, K.-M. Fu, et al., <https://arxiv.org/abs/2309.15969>.

Pumping Chirality in Three Dimensions, L. Fidkowski, M. Hastings, <https://arxiv.org/abs/2309.15903>.

Friday, October 6, 2023
- 11:30am, PAT C-520
([Eric Lester](#))

Friday, October 6, 2023
- 2:30pm, PAT C-520
([Kent Wilson](#))

Friday, October 13,
2023 - 2:00pm, PAT
C-520
([Teresa Lo](#))

Wednesday, November
3, 2023 - 3:00pm, PAT
C-520
([Henry Froland](#))

SOCIAL MEDIA

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Revealing the conduction band and pseudovector potential in 2D moiré semiconductors, H. Park, P. Nguyen, A. Andreev, M. Rudner, X. Xu, D. Cobden, et al., <https://arxiv.org/abs/2309.10964>.

Generalized Ginsparg-Wilson equations, M. Clancy, D. Kaplan, H. Singh, <https://arxiv.org/abs/2309.08542>.

Giant nonreciprocity of current-voltage characteristics of noncentrosymmetric superconductor-normal metal-superconductor junctions, T. Liu, A. Andreev, B. Spivak, et al., <https://arxiv.org/abs/2309.05034>.