



# The Physics Observer

Jan 3, 2024

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## EVENTS

**Friday, January 5,  
2023 - 3-5:00pm, Kane  
225 (Walker Ames)**  
[Physics Holiday Party:](#)

**Monday, January 8,  
2023 - 4:00pm, PAA  
A-102**  
[Physics Colloquia:](#)  
[Fracton Quantum Matter,](#)  
[Michael Hermele, UC  
Boulder](#)

**Monday, January 22,  
2023 - 4:00pm, PAA  
A-102**  
[Physics Colloquia:](#)  
[Particle Physics Deadal  
Priorities,](#)  
[Sarah Demers, Yale](#)

**Monday, January 29,  
2023 - 4:00pm, PAA  
A-102**

## 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](mailto:physrecp@uw.edu).

## Chair's Corner (L. Yaffe)

Happy New Year to all! 2023 is over and done with. Despite the many ongoing worldwide problems, as well as those internal to the university (namely the [UW Financial Transformation](#)), 2023 was a pretty good year for the department. We welcomed four new tenure-track faculty members: Isabel Garcia Garcia, Charles Marcus, Elise Novitski and Gustavo Joaquin Turiaci. We were able to significantly increase stipends for graduate students and salaries for most postdocs. Research progress has been impressive, with selected publications which especially catch my eye listed in every newsletter issue.

I want to thank all donors to the department. Your generosity makes possible many things which benefit the department, including scholarship support for undergraduate majors, recruitment incentives for graduate students, help with faculty retention, and our annual department social gatherings. All donations, large and small, are much appreciated!

This coming Friday afternoon, the department will hold its annual holiday party. I hope to see many of you there!

## Milestones & Arrivals

★ Research Assistant Professor [Joshua Kas](#) celebrates 25 years with UW.

## Funding Announcements

- Applications solicited for 2024 DOE Office of Science [summer undergraduate internships \(SULI\)](#). Deadline **January 9, 2024**.
- Applications solicited for [DOE computational science graduate fellowships](#). Deadline **January 17, 2024**.
- Pre-proposals solicited for [Garneau Nikon Family Foundation](#) grants, \$1K-50K, from individuals or groups. Internal UW deadline **January 17, 2024**.

Physics Colloquia:  
Statistical Mechanics of  
Collective Behavior,  
Thierry Mora,  
ENS/Chicago

## EXAMS

Tuesday, January 16,  
2023 - 1:00pm, PAT  
C-520  
(Han Kyou Choi)

Thursday, January 18,  
2023 - 11:30am, PAB  
B042  
(Adina Ripin)

Friday, January 26,  
2023 - 3:00pm, PAT  
C-520  
(Henry Froland)

## SOCIAL MEDIA

Instagram

Facebook

YouTube

Twitter (@physicsuw)

- Applications solicited for [NASA Student Airborne Research Program \(SARP\)](#) summer internships. US citizens only. Deadline **January 31, 2024**.
- Applications solicited for 2024 NSF [A3D3 Institute Postbaccalaureate Fellowship](#). Deadline **February 15 2024**.
- Applications solicited for French-American Cultural Exchange (FACE) [transatlantic research partnership grants](#), 20K, early career applicant pairs. Deadline **February 29, 2024**.
- Applications solicited for [Washington Research Foundation planning grant](#), \$200K. Deadline **March 11, 2024**.
- Pre-proposals solicited for NSF [Partnerships for Innovation \(PFI\)](#) program proposals, \$1M. Internal UW deadline **March 13, 2024**.

## Job Opportunities

- [Assistant/Associate Teaching Professor](#), UC-Santa Cruz.
- [Assistant Professor](#), UNC-Chapel Hill
- [Professor](#), Heidelberg University
- [Professor](#), University of Iowa
- [Research Assistant](#), Lawrence Livermore National Laboratory
- [Visiting Assistant Professor](#), Whitman College

## Selected Publications

- Absence of Weyl nodes in EuCd<sub>2</sub>As<sub>2</sub> revealed by the carrier density dependence of the anomalous Hall effect, Y. Shi, Z. Liu, C. Hu, A. Jiang, J. Cai, X. Xu, M. Li, J.-H. Chu, et al., <https://arxiv.org/abs/2401.00138>.
- Non-Markovian character and irreversibility of real-time quantum many-body dynamics, A. Bulgac, M. Kafker, et al., <https://arxiv.org/abs/2312.14962>.
- Chiral gauge theory at the boundary between topological phases, D.B. Kaplan, <https://arxiv.org/abs/2312.01494>.
- Hyperdeterminants and Composite fermion States in Fractional Chern Insulators, D. Xiao, et al., <https://arxiv.org/abs/2312.00636>.