UNIVERSITY of WASHINGTON

QUANTUMX

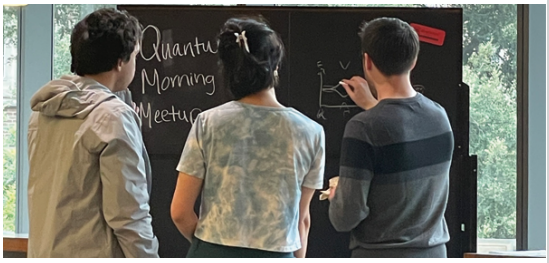
Please join us next week on February 10 from 7:30 p.m. to 8:30 p.m. for the UW Public Lecture in Quantum Information Science & Engineering with Dr. Krysta Svore. The talk is titled "Designing the Accelerated Quantum Supercomputer: AI-First, Real-Time Required" and will be held in Kane Hall 130 on the UW Seattle Campus. This event is free and open to the public. Register for the lecture here.

Washington's quantum ecosystem game plan

UW QuantumX member faculty and Northwest Quantum Nexus Chief Scientist, Charles Marcus, discussed Washington state's opportunities in building a quantum ecosystem at a Tech Alliance event.

QX Morning Meetup

Every Monday, researchers meet to talk about their quantum research over a cup of coffee and a slice of fresh bread. This “meet up” gives students and faculty the opportunity to connect on both a scientific and a personal level as a way to grow the community and enable collaborations.



New NQN website!

The Northwest Quantum Nexus, a coalition of quantum researchers across industry, academia, and government sectors, has launched a new website with information on current research, resources, and upcoming events.

Quantum @ UW REU Application is live

The application for this 10-week NSF-funded research program at UW Seattle is open now. Deadline to submit is February 20 at 11:59 pm.

Join a QED-C Technical Advisory Committee

Join a QED-C TAC and collaborate with industry, academia, government, and the quantum community to develop, grow, and commercialize QIST.

New QuantumX Events Calendar & Community Form

Checkout QX's new Events Calendar. Have a quantum-related event you want to share? Submit your event.

RESEARCH HIGHLIGHTS

Fractional Quantum Anomalous Hall Effect
Ting Cao, Liang Fu, Long Ju, Di Xiao, Xiaodong Xu
Annual Review of Condensed Matter Physics

A Framework for Quantum Simulations of Energy-Loss and Hadronization in Non-Abelian Gauge Theories: SU (2) Lattice Gauge Theory in 1+ 1D
Martin Savage
Arvix.org

Hardware-aware and Resource-efficient Circuit Packing and Scheduling on Trapped-Ion Quantum Computers
Miguel Palma, Shuwen Kan, Wenqi Wei, Juntao Chen, Kaixun Hua, Sara Mouradian, Ying Mao
Arvix.org

Pervasive spin-triplet superconductivity in rhombohedral graphene
Manish Kumar, Derek Waleffe, Anna Okounkova, Raveel Tejani, Kenji Watanabe, Takashi Taniguchi, Étienne Lantagne-Hurtubise, Joshua Folk, Matthew Yankowitz
Arvix.org

Separating QMA from QCMA with a classical oracle
John Bostanci, Jonas Haferkamp, Chinmay Nirkhe, Mark Zhandry
Arvix.org

The Quantum Complexity of String Breaking in the Schwinger Model
Martin Savage
Arvix.org

Higher critical currents yet faster vortex creep in $EuBa_2Cu_3O_y$ films containing coherent artificial pinning centers
Jiangteng Liu, Masashi Miura, Daisaku Yokoe, Takeharu Kato, A. Ibi, Teruo Izumi, Serena Eley
Communications Materials

Universal Magnetic Phases in Twisted Bilayer $MoTe_2$
Weijie Li, Evgeny Redekop, Christiano W. Beach, Canxun Zhang, Xiaowei Zhang, Xiaoyu Liu, Will Holtzmann, Chaowei Hu, Eric Anderson, Heonjoon Park, Takashi Taniguchi, Kenji Watanabe, Jiun-Haw Chu, Liang Fu, Ting Cao, Di Xiao, Andrea F. Young, Xiaodong Xu
Nano Letters

Free space few-photon nonlinearity in critically coupled polaritonic metasurfaces
Jie Fang, Abhinav Kala, Rose Johnson, David Sharp, Rui Chen, Cheng Chang, Christopher Munley, Johannes E. Fröch, V. Naresh, Andrew Tang, Arnab Manna, Virat Tara, Biswajit Datta, Zhihao Zhou, David S. Ginger, Vinod M. Menon, Lih Y. Lin, Arka Majumdar
Nature Communications

Detecting Linear Dichroism with Atomic Resolution
Jaume Gàzquez, Roger Guzmán, Ján Rusz, Ang Li, Juan Carlos Idrobo, Wu Zhou
Nature Portfolio

GET INVOLVED

QuantumX wants to hear from you! Send your latest news and events to: uwqis@uw.edu.

Interested in supporting QuantumX activities? Learn more by contacting uwqis@uw.edu or donate directly.