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QUANTUM IMMERSION WORKSHOP

Monday, February 25, 2019 • 8:00 am-5:00 pm

Charles B. Wang Center, 100 Nicolls Road, Stony Brook, NY 11794

The goal of this Quantum Immersion Workshop is to build a Quantum Information Science (QIS) community of researchers between Stony Brook University, Brookhaven National Laboratory, and other partners.

This workshop will showcase state-of-the-art Research in QIS and provide a forum to discuss opportunities to engage in QIS research.

Featuring four sessions on:

• **Quantum Networking and Cryptography:**

Dr. Eden Figueroa, Associate Professor, Stony Brook University Department of Physics and Astronomy

• **Quantum Algorithms and Programming Environment:**

Dr. Tzu-Chieh Wei, Associate Professor, C.N. Yang Institute for Theoretical Physics

• **Analog Quantum Simulation:**

Dr. Dominik Schneble, Associate Professor, Stony Brook University Department of Physics and Astronomy

• **Quantum Materials and Devices:**

Dr. Dmitri Kharzeev, Distinguished Professor, Stony Brook University Department of Physics and Astronomy

Provost lectures:

Building a Quantum Computer: *Dr. Barry Sanders, Director of the Institute for Quantum Science and Technology at the University of Calgary*

Quantum Machine Learning:

Dr. Seth Lloyd, Professor of Engineering at MIT

Researchers in Physics, Computer Science, Engineering, Materials Science and related fields with an interest in Quantum Information Science are invited to attend.

Sponsored by Office of the Vice President for Research (SBU), SUNY Center for Quantum Information Science on Long Island (SBU/SUNY), Computational Science Initiative (BNL), Institute for Advanced Computational Sciences (SBU), College of Arts and Sciences (SBU), College of Engineering and Applied Sciences (SBU), and Department of Physics and Astronomy (SBU).

There will be photography and video recording of this event.

The event is free, but registration is required. **For more information and to register, please visit research.stonybrook.edu/quantum**



Stony Brook **Research**

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