

BERKELEY LAB

LAWRENCE BERKELEY NATIONAL LABORATORY



U.S. DEPARTMENT OF
ENERGY

Welcome to Quantum Computing Mini workshop at LBNL



Full day of talks, with plenty of time for discussion

09:00	Welcome 4102, 59	<i>Christian Walter Bauer et al.</i> 09:00 - 09:10
	Quantum sensing in ultra-clean optical lattices 4102, 59	<i>Holger Muller</i> 09:10 - 09:40
10:00	Particle tracking with annealers and quantum machine learning with Qulacs 4102, 59	<i>Ryu Sawada</i> 09:50 - 10:20
11:00	Quantum Testbed at Berkeley 4102, 59	<i>David Santiago</i> 11:00 - 11:30
12:00	Variational Quantum Classification with Qiskit and Developments in Particle Tracking with DWave 4102, 59	<i>Eric Drechsler</i> 11:40 - 12:10

Lunch



Full day of talks, with plenty of time for discussion

14:00	Prospects for Discrete, Quantum, and 'Classical' Variational Autoencoders in analysis and synthetic data generation 4102, 59	<i>Wojtek Fedorko</i> 14:00 - 14:30
	Quantum Simulation: from analog protocols to digital quantum algorithms 4102, 59	<i>Mekena Metcalf</i> 14:40 - 15:05
15:00	LBNL Advanced Quantum Testbed Software Stack 4102, 59	<i>Costin Iancu</i> 15:10 - 15:35
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16:00	QAOA for Track Reconstruction 4102, 59	<i>Eric Rohm</i> 16:25 - 16:40
17:00	SU(2) Gauge Theory on Digital Quantum Computers 4102, 59	<i>Jesse Stryker</i> 16:50 - 17:10

Dinner at Jupiter 7pm



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VISITOR SAFETY INFORMATION



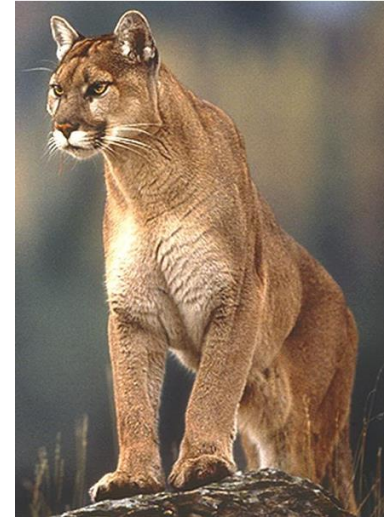
Safety at LBNL

US DOE Facility

- Obey all posted signs

Pedestrian Safety

- Use sidewalk and crosswalks
- Watch your step!
- Do not interact with wild animals



Traffic Safety

- Speed limit is 15 mph on most of site due to construction
- Follow traffic, parking and pedestrian signs and markings

Smoking

- In designated areas only



Earthquake Response



Drop down on the floor



Cover under a sturdy desk, table or other furniture



Hold onto it and be prepared to move with the furniture



Evacuate to assembly area (usually in parking lot). Take personal items.

Follow Directions from the Building Emergency Team

Reporting Emergencies

-Dial **911** for life threatening emergencies



-Dial **6999** for non-life threatening events

