

## IEEE Quantum Week 2024 workshop: Classical Control Systems for Quantum Computing

Monday, September 16th, 2024

Montreal, Canada

Session 1: 10:00-11:30			
10:00-10:10	1.1	Kasra Nowrouzi, LBNL	Introductory Remarks
10:10-10:35	1.2	Teague Tomesh, Infleqtion	Universal Quantum Computing with Neutral Atoms
10:35-11:00	1.3	Akel Hashim, LBNL	QubiC: hardware-efficient quantum computing
10:55-11:30		Panel Discussion	

Session 2: 13:00-14:30			
13:00-13:15	2.1	Michael Healy, IBM	Full Stack IBM Control Systems for Quantum Computing
13:15-13:30	2.2	Tomi Riipinen, IQM	Industrial view on QPU control electronics
13:30-13:45	2.3	Brad Freyberg, Quantinuum	Quantinuum Control System Overview
13:45-14:00	2.4	Jonathan Wurtz, QuEra	Controls and compilers for neutral-atom quantum computers
14:00-14:30		Panel Discussion	

Session 3: 15:00-16:30			
15:00-15:15	3.1	Mateusz Wójcik, Artiq	ARTIQ - an open source physics experiment control system
15:15-15:30	3.2	Arnaud Carignan-Dugas, Keysight	From controlling 1 to 1000 qubits
15:30-15:45	3.3	Niels Bultink, Qblox	Control for fault tolerant quantum computing at utility scale
15:45-16:00	3.4	Moritz Kirste, Zurich Instruments	Enabling the second quantum revolution with classical instrumentation
16:00-16:30		Panel Discussion	