

Wednesday, January 24 (starts at 8h45)

Opening remarks (8h45 – 9h00)			
Session 1: Quantum systems and devices			
S1-1	9h00	Tomohiro Ishii	Exciton-polariton and the Bose-Einstein condensation in organic microcavities
S1-2	9h30	Coralie Bellemare	Silicon-integrated SWIR and MWIR GeSn photoconductive devices
S1-3	9h45	Gabriel Ouellet	Measurements of high-quality-factor superconducting NbN resonators
S1-4	10h00	Catherine Boisvert	Mapping Single-Electron Charging Rings to Nanoparticle Size
Coffee break (10h15– 10h45)			
S1-5	10h45	Félix Pellerin	Topological bands and edge states measurement of long-ranged dimer chains in a synthetic dimension
S1-6	11h00	Alexandre Chénier	Haldane model in synthetic dimensions
S1-7	11h15	Nicolas Fontaine	Low frequency noise in AC biased metallic tunnel junctions
S1-8	11h30	Étienne Pilon	Implementation of membrane in magnetomechanic
Lunch (11h45 – 13h00)			
Poster Session (13h00-14h00)			
Session 2: Qubits and systems			
S2-1	14h00	Suman Jyoti De	Global phase diagram of charge neutral graphene in the quantum Hall regime for generic interactions
S2-2	14h30	Marie Frédérique Dumas	Unified picture of measurement-induced ionization in the transmon, part I
S2-3	14h45	Benjamin Groleau-Paré	Unified picture of measurement-induced ionization in the transmon, part 2
Coffee break (15h00 - 15h15)			
S2-4	15h15	Laurine Marian	Amplitude Higgs mode in superconductors: a way to carry quantum informations?
S2-5	15h30	Simon Richer	Optimising fluxonium readout using quantum optimal control
S2-6	15h45	Clovis Farley	TBD

16h00 - 19h30
Ski / Free time

Dinner (19h30)

Thursday January 25 (starts at 9h00)

Session 3: Quantum information and more

S3-1	9h00	Muxue Guo	An Introduction to Quantum Automata and Quantum Automata Learning
S3-2	9h30	Nicolas Courtemanche	Non-local games with a promise
S3-3	9h45	Benjamin Lanthier	Accelerating Counting Using Tensor Networks
S3-4	10h00	Julien Drapeau	Variational Quantum Counting

Coffee break (10h15– 10h45)

S3-5	10h45	Zixian (Ruby) Wei	Matrix Product State, Entanglement and Lattice Momentum
S3-6	11h00	Pierre-Gabriel Rozon	Optimal twirling depth for classical shadows in the presence of noise
S3-7	11h15	Louis Beaudoin	Contactless Quantum Hall Effect in the Micro-wave Regime
S3-8	11h30	Jeremy Peltier	Anomalous Hall effect for light

Lunch (11h45 – 13h00)

Session 4 : Variety of topics

S4-1	13h00	Alexandre Dumont	Fourier thermodynamics in microwave circuits
S4-2	13h30	Thomas Royer	Cosmic rays & quantum computers
S4-3	13h45	Alexis Morel	Brief introduction to spin qubits
S4-4	14h00	Sam Wolski	Reproducibility by design

Coffee break (14h15 – 14h45)

S4-5	14h45	Dominic Leclerc	Cryogenic characterization of CMOS transistor for quantum computing
S4-6	15h00	Yasmine Faraj	Double quantum dots in undoped GaAs coupled to a superconducting resonator.

S4-7	15h15	Louis-Charles Thibodeau	Breaking the Quantum Rewinding Barrier
S4-8	15h30	Valentin Boettcher	Dynamics of a strongly coupled quantum heat engine
Presentation prizes and closing remarks (15h45)			
Chartered bus leaves at 16h30 (Direction Montreal)			