

## 10<sup>th</sup> Canadian Summer School on Quantum Information Schedule

### First Week:

July 17 – 21	Sat, 17 <sup>th</sup> Henn 201	Sun, 18 <sup>th</sup> IBLC 182	Mon, 19 <sup>th</sup> Henn 201	Tues, 20 <sup>th</sup> Henn 201	Wed, 21 <sup>st</sup> Henn 201	Thurs, 22 <sup>nd</sup>	Fri. 23 <sup>rd</sup> Henn 201	
9:00-10:15	Introduction (Raussendorf, 10 min) * Quantum Algorithms (Wocjan/Childs)	Quantum Algorithms (Wocjan/Childs)	Quantum Works Presentation (Sean Collins, 10min) * Quantum Algorithms (Wocjan/Childs)	Classical Simulation (van den Nest)	Adiabatic Quantum Computation (Lidar/Amin)	Optional Activity: D-Wave Tour	QAMF Workshop	
10:15-10:45	Coffee Break							
10:45-12:00	Quantum Algorithms	Quantum Algorithms	Quantum Algorithms	Classical Simulation	Adiabatic Quantum Computation			
12:00-2:00	Lunch Break				Talk 12:30-1:15 Domenico D'Alessandro			
2:00-3:15	Quantum-Error Correction (Gottesman)	Quantum-Error Correction (Gottesman)	Graph Theory (Godsil)	Graph Theory (Godsil)	Adiabatic Quantum Computation			
3:15-3:45	Coffee Break							
3:45-5:00	Quantum-Error Correction	Quantum-Error Correction	Graph Theory	Graph Theory	Adiabatic Quantum Computation			
5:00-6:00	Break							
6:00-8:00	QI10 Reception @ Abdul Ladha Centre	<b>Summary:</b> Quantum Algorithms – 1 ½ day; Quantum-Error Correction – 1 day; Graph Theory – 1 day Classical Simulation – ½ day; Adiabatic quantum computation- 1 day Optional Activity: D-Wave Tour						

**Second Week:**

July 24 – 30	Sat, 24 <sup>th</sup> Henn 201	Sun, 25 <sup>th</sup> IBLC 182	Mon, 26 <sup>th</sup> Henn 201	Tues, 27 <sup>th</sup> Henn 200	Wed, 28 <sup>th</sup> Henn 200	Thurs, 29 <sup>th</sup> Henn 201	Fri, 30 <sup>th</sup>
9:00-10:15	QAMF Workshop	QAMF Workshop	Foundations of Quantum Mechanics (Spekkens)	Classical Simulation (Verstraete)	Classical Simulation (Verstraete)	Measurement-based Quantum Computation (Browne/Raussendorf)	Optional Activity: TBA
10:15-10:45			Coffee Break				
10:45-12:00			Foundations of Quantum Mechanics	Classical Simulation	Classical Simulation	Measurement-based Quantum Computation	
12:00-2:00			Lunch Break		Talk 12:30-1:15 Masahiro Hotta	Lunch Break	
2:00-3:15			Foundations of Quantum Mechanics	Topological Quantum Computation (Bonesteel)	Topological Quantum Computation (Bonesteel)	Measurement-based Quantum Computation	
3:15-3:45			Coffee Break				
3:45-5:00			Foundations of Quantum Mechanics	Topological Quantum Computation	Topological Quantum Computation	Measurement-based Quantum Computation	

**Summary:**

Foundations of Quantum Mechanics – 1 day; Classical Simulation – 1 day

Measurement-based Quantum Computation – 1 day; Topological Quantum Computation – 1 day

Optional Activity: TBA