

# Canadian Summer School on Quantum Information

17 - 21 June 2013

24 - 28 June 2013

## Canadian Quantum Information Students' Conference



Institute for  
QUANTUM SCIENCE AND TECHNOLOGY  
at the University of Calgary

Are you a student in computer science, physics, mathematics or engineering? Are you interested in learning about quantum information science? Consider attending the Canadian Summer School on Quantum Information, featuring five days of didactic lectures by international leaders in the field. Afterwards, join us for the Canadian Quantum Information Students' Conference for exciting networking opportunities and a chance to present results from your own research.

### Summer School Speakers and Topics

**DOMINIC BERRY, MACQUARIE UNIVERSITY**

*Quantum algorithms, quantum simulation*

**ALEXANDRE BLAIS, UNIVERSITÉ DE SHERBROOKE**

*Superconducting qubits, microwave quantum optics*

**NILANJANA DATTA, UNIVERSITY OF CAMBRIDGE**

*Quantum entropies and one-shot information theory*

**AUSTIN FOWLER, UNIVERSITY OF MELBOURNE**

*Quantum error correction, fault-tolerant quantum computing, surface code, topological cluster states*

**IVETTE FUENTES, UNIVERSITY OF NOTTINGHAM**

*Relativistic quantum information*

**DANIEL GOTTESMAN, PERIMETER INSTITUTE**

*Quantum error correction and fault tolerance*

**MATTEO MARIANTONI, UNIVERSITY OF WATERLOO**

*Superconducting quantum circuits, quantum microwaves*

**CHRISTOPH SIMON, UNIVERSITY OF CALGARY**

*Quantum repeaters, quantum memories for photons*

### Student Conference Guest Speakers

**SUZANNE GILDERT, D-WAVE**

*What do you DO with a quantum computer?*

**BARRY SANDERS, UNIVERSITY OF CALGARY**

*Universal quantum simulation for fun and profit*

### DEADLINES

**Conference abstracts**

29 April 2013

**Conference registration**

10 May 2013

**Summer school registration**

10 May 2013

### REGISTRATION

**\$50 each for summer school and student conference. Limited free accommodation available, on a first-come, first-served basis.**

### ORGANIZING COMMITTEE

**Barry Sanders (co-chair)**

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**Peter Høyer (co-chair)**

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**INTRIQ**  
Institut transdisciplinaire d'information-quantique



**CryptoWorks21**



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