



THE FIELDS INSTITUTE

QUANTUM OPTIMIZATION WORKSHOP

OCTOBER 27-29, 2014
FIELDS INSTITUTE

ORGANIZING COMMITTEE:

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Quantum-inspired technologies have begun to emerge in various areas of Science and Engineering. In the realm of quantum computing, researchers develop algorithms that carry the potential to solve extremely hard computational problems, which are currently intractable by conventional algorithms. Some of the quantum algorithmic tools that have developed in recent years are known to speed-up the solution of well known extremely difficult combinatorial problems.

The fundamental goal of our proposed workshop will be to provide a forum for both scientific presentations and discussion of issues related to what we call quantum optimization. Optimizations researchers will learn about the quantum technology and methodologies and the quantum researchers will learn about hard optimization problems that may yield to quantum optimization approaches.

SPEAKERS:

SERGIO BOIXO
GOOGLE INC

ROBIN KOTHARI
MIT

PANOS M. PARDALOS
FLORIDA

RICHARD CLEVE
IQC WATERLOO

ASHWIN NAYAK
IQC WATERLOO

KRYSTA M. SVORE
QUARC, MICROSOFT RESEARCH

ANDY CONN
IBM RESEARCH

WILLIAM PULLEYBLANK
USMA

MARIO SZEGEDY
RUTGERS

For more information and to register, please visit:

www.fields.utoronto.ca/programs/scientific/14-15/quantumopt



THE FIELDS INSTITUTE FOR RESEARCH IN MATHEMATICAL SCIENCES

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