

Special Day

Quantum optics for fundamental tests and applications

Christoph Simon

University of Calgary

July 19, 2018

4:00 p.m. - Wilson Hall, One West

I will describe the many facets of quantum optics research through examples from my own career. In particular, I will talk about theoretical and (in many cases) experimental work on demonstrating quantum non-locality, on bringing quantum effects such as superposition and entanglement to the macroscopic level, on implementing a global quantum network, on the possible existence of photonic communication channels in the brain, and on super-resolution imaging.