

**SEMINAR
OF
THE INSTITUTE FOR QUANTUM INFORMATION SCIENCE**

3:00 pm Wednesday 10 May 2006 in SB 144

Daniel Terno
Perimeter Institute for Theoretical Physics
<http://www.perimeterinstitute.ca>



Title: Introduction to relativistic quantum information

Abstract: I will discuss the role that relativistic considerations play in quantum information processing. First I mention how the causality requirements limit possible multi-partite measurements. Then the Lorentz transformations of quantum states are introduced, and their implications on physical qubits are described. This is used to describe relativistic effects in communication and entanglement.

