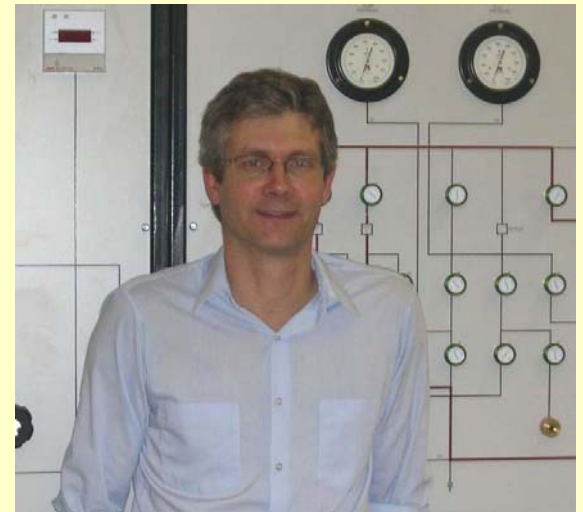


Physics Colloquium
Monday December 12th 2005
4:15 PM 428 Pupin Hall
Professor Stephen Julian
University of Toronto

“Quantum Phase Transitions in Condensed Matter”

Abstract: In a field that is largely driven forward by serendipitous, once-in-a-generation, discoveries of unexpected properties in exotic materials, it is natural to wonder if a more systematic approach is possible. In this talk I will argue that quantum phase transitions -- boundaries between qualitatively different ground states -- are a natural place to look for new phenomena. I will describe how quantum phase transitions are accessed experimentally, including examples of new quantum phases that have been uncovered in this way.



Host: Professor Millis