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Guelph-Waterloo Physics Institute

THE <G/W> DISTINGUISHED LECTURER SERIES

Professor Robert J. Birgenau
President
University of Toronto

Waterloo Campus

Date: Colloquium, Thursday, March 1, 2001
Time: 3:30 p.m.
Place: PHY 145

Stars, Stripes, and High Temperature Superconductors

The physics of high temperature superconductivity turns out to be remarkably sophisticated and complex. Specifically, as a function of doping the system goes from being an antiferromagnetic insulator, to a weakly metallic spin glass, to a superconductor, and finally to a normal metal. The microscopic magnetic properties evolve dramatically as the system goes from one phase to another. We discuss this evolution from an empirical viewpoint and we then attempt to relate the observed to possible microscopic models for this highly correlated electronic system.

Coffee will be available in PHYS 145 prior to the Colloquium

*A Wine & Cheese Reception will be held after the Colloquium
in PHYS 153 (Study Hall)*

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