NEW YORK CITY COLLEGE OF TECHNOLOGY
Physics Department
Center for Theoretical Physics

The Pseudogap and Superconductivity in the Hubbard Model and in High Tc Superconductivity

Presented by:
Prof. Andrew J. Millis

Columbia University
New York, NY, USA

Thursday, September 13 at noon
Namm, Room 823

Abstract

The development of dynamical mean field theory, first in its single-site form and now in its extension to clusters has led to new insights into the basic question of the interaction-driven (`Mott') metal-insulator transition and its relation to high temperature superconductivity. In this talk I will review the method, summarizing what has been done and can be done, and presenting new results on the Raman scattering spectrum and on the interplay of superconductivity and the pseudogap. This work was performed in collaboration with E. Gull, O. Parcollet and N. Lin and is supported by the US National Science Foundation under grant DMR-1006282.

Light refreshments will be served.