Condensed Matter Theory Center Seminar Tuesday, December 9 at 11:00 AM

2205 Physics Building

Speaker: Subir Sachdev (Harvard)

Title: Order and criticality in the cuprate superconductors

Abstract: A central mystery posed by the Cu-based high temperature superconductors

has been the nature of their electronic state at low hole density. I will survey the

remarkable progress made by recent experiments towards solving this mystery, with the

first discovery of a density wave with a d-form factor. Aspects of this discovery were

anticipated by theory. I will also discuss implications of these advances for the higher

temperature "pseudogap" state, and for a quantum-critical point at optimal doping.

Host: Sankar Das Sarma

http://www.physics.umd.edu/cmtc/seminars.html