

T_cSAM Bi-Weekly Brown Bag Seminar

Texas Center for Superconductivity and Advanced Materials

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“Theory of High-Temperature Superconductivity---A New Perspective”

Friday, January 16, 2004

Room 102, University of Houston Science Center

12:00 p.m. – 1:00 p.m.

Abstract

Theoretical analysis of an effective model of d-wave superconductivity in two dimensions reveals a subtle interplay between phase separation, superconductivity and antiferromagnetism. The main theoretical result can be described in terms of elementary phase separation concepts in a binary alloy. This provides a deep understanding of the phase diagram of a hole-doped cuprate superconductor. A microscopic model of d-wave superconductivity will also be discussed.

Persons with disabilities who require special accommodations in attending this lecture should call (713) 743-8210 as soon as possible.

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