

T_CSUH Special Seminar

Texas Center for Superconductivity at the University of Houston

Prof. C. D. Hu

Department of Physics
National Taiwan University
Taipei, Taiwan R.O.C.

Monday, May 21, 2007

Room 102, University of Houston Science Center
4:00 p.m. – 5:00 p.m.

“Bond Bending Enhanced Ferroelectricity in Multiferroic Materials”

Abstract

We studied transition metal oxides with spiral spin distribution. The bond bending at oxygen sites enables the hybridization of the t_{2g} orbitals of transition elements and the p -orbitals of oxygen atoms. Bloch functions are coupled due to the spiral spin distribution. The resulting wave function gives rise to electronic distribution which has net electric polarization if spin-orbit interaction is considered.

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



TEXAS CENTER FOR
SUPERCONDUCTIVITY