Physics Colloquium

University of Missouri-Kansas City
Department of Physics

Professor B. K. Godwal

University of California at Berkeley

"Electronic Phase Transitions in Elemental Solids and Compounds"

Electronic Phase Transitions also known as Electronic Topological Transitions are caused due to the interception of electronic band extremum with Fermi level. Lifshitz showed that it results in anomalies in physical properties. These transitions can be caused in materials by changing pressure or temperature. With difficulties in the direct observation of such transitions experimentally, they have been inferred by combining the theory with experiment. The talk will illustrate it on elemental solids and compounds which have been studied both theoretically and experimentally at high pressure.

Physics Department
Robert H. Flarsheim Science & Technology Hall
5110 Rockhill Road
University of Missouri-Kansas City

October 19, 2007

Coffee at 3:10, Colloquium at 3:30 in Room 310

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fall Semester 2007