Physics Colloquium

University of Missouri-Kansas City
Department of Physics

Professor L. W. Bruch
Department of Physics
University of Wisconsin

Physics of the monolayer solid of xenon on graphite.

Many features of the phase diagram of monolayer xenon adsorbed on the basal plane surface of graphite are well-established experimentally and are understood in terms of the atomic interactions. There continues to be progress with experiments, for instance on establishing the stable adsorption site and imaging domain networks of the incommensurate solid. However there has been a troubling contradiction between theory and some experiments on the order of the commensurate-incommensurate (CI) transition. This talk will give an overview of the variety of phenomena that occur in monolayer xenon, will present an extension of the theoretical analysis of the CI transition, and will mention some directions for further work.

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