
Physics Colloquium

University of Missouri-Kansas City

Department of Physics

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Introduction to Solid State Neutron Detection

This talk will introduce and review active solid state neutron detection from its most fundamental to applied level. Neutron detection is of use in nuclear medicine, high energy physics, nuclear non-proliferation, structural biology and chemistry, magnetism, and nuclear energy. The difficulty in detecting a neutron is due to its kinetic energy dependent cross section for interaction and its absence of charge. These two points (kinetic energy and neutrality) will be the focus of the talk within the context of how a neutron may be converted into a detectable signal.

April 10, 2009

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

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