

# 北京大学量子材料科学中心

## International Center for Quantum Materials, PKU

### **Seminar**

Ultrafast carrier, phonon and spin dynamics in topological insulators

Time: 4:00pm, April 22, 2015 (Wednesday)

时间: 2015年04月22日 (周三) 下午4:00

Venue: Room W563, Physics Building, Peking University

地点:北京大学物理楼 西563

#### **Abstract**

Understanding carrier, phonon and spin dynamics is essential for future optoelectronic and spintronic applications of topological insulators. Here, I will present a systematic study of those dynamics in Bi2Se3 and Bi2Se3.9 investigated by ultrafast pump probe spectroscopy. Several detailed temperature-dependent relaxation precesses are given. Some new observed phenomena may tell us more information about this type of material, i.e. electron-phonon scattering anisotropy, charge transport time, electronic structure.

#### About the Speaker

Vanderbilt 2008

Los Alamos

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