

## Seminar

## Ultrafast carrier, phonon and spin dynamics in topological insulators

齐静波 四川大学

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

齐静波,四川大学顶峰多尺度科学研究所研究员,国家青年千人计划教授。2008年获美国 Vanderbilt大学应用光学专业博士学位。毕业后,分别在美国强磁场国家实验室和Los Alamos国家 实验室从事博士后研究。擅长超快激光光谱、太赫兹光谱和X射线光谱,并利用这些光谱设备研究 材料中的各种超快物理现象。