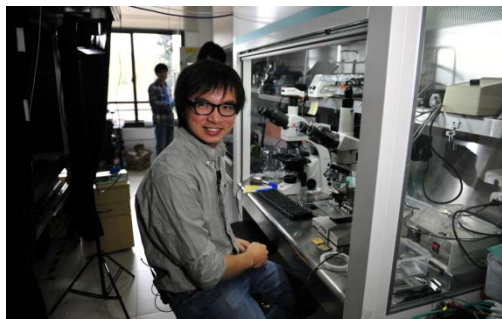




Weekly Seminar

Two-dimensional materials beyond graphene



Yuanbo Zhang

Fudan University

Time: 4:00pm, June 4, 2014 (Wednesday)

时间: 2014年6月4日 (周三) 下午4:00

Venue: Conference Room 607, Science Building 5

地点: 理科五号楼607会议室

Abstract

Two-dimensional atomic crystals, best exemplified by graphene, have emerged as a new class of material that may impact future science and technology. In this talk I will first discuss the physics and material aspect of graphene. Drawing from our experiences in graphene study, I will then discuss other 2D materials, including black phosphorus and 1T-TaS₂ thin film - two new materials with vastly different properties. We explore their electronic properties while the doping and dimensionality of the 2D systems are modulated.

About the Speaker

Prof. Yuanbo Zhang received his BS from Peking University in 2000 and his PhD in Physics from Columbia University in 2006. He was a Miller Research Fellow at the University of California at Berkeley from Sept. 2006 to Jun. 2009, a postdoc research associate at IBM Almaden Research Center from Mar. 2010 to Sept. 2010, and a professor of Fudan University from 2011. His main research interests are: Electronic transport in low-dimensional systems including graphene; Scanning probe techniques and their application in studying low-dimensional nanostructures. Major honors include: Charles Townes Fellowship, Columbia University (2005); Miller Fellow, University of California, Berkeley (2006); IUPAP Young Scientist Prize, International Union of Pure and Applied Physics (2010).