



中心系列讲座 ICQM Weekly Seminar Series “Probing Dirac Fermions in Graphene”



Prof. Yuanbo Zhang(张远波)
Department of Physics,
Fudan University

Time: 4:00pm, Apr. 27, 2011 (Wednesday)

时间: 2011年4月27日 (周三) 下午4:00

Venue: Room 607, Conference Room A, Science Building 5

地点: 理科五号楼607会议室

Abstract

Graphene, a single atomic layer of carbon, is a unique two-dimensional quantum material where electrons behave as massless particles (Dirac fermions) with an effective speed of light equal to $c/300$. This provides an interesting analogy to the high energy relativistic quantum mechanics in a condensed matter system. In this talk I will discuss our experiments probing the novel quantum phenomena arising from the “relativistic” nature of the quasiparticles in graphene. I will also show that, with one more layer added, the graphene bilayer is another intriguing system whose electronic structure can be controlled by electrical gating.

About the Speaker

Zhang Yuanbo graduated in technical physics from Peking University (2000) and obtained his PhD from Columbia University(2006).He received Miller Fellowship from University of California at Berkeley from 2006 to 2010.Now, he works as Professor in Fudan University. His research interests mainly focus on graphene and related field. Professor Zhang was granted the IUPAP Young Scientist Award in 2010.