SPECIAL COLLOQUIUM

Department of Physics, Tsinghua University

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Title Physics of Few-Layer Graphene

Speaker Prof. Mei-Yin Chou

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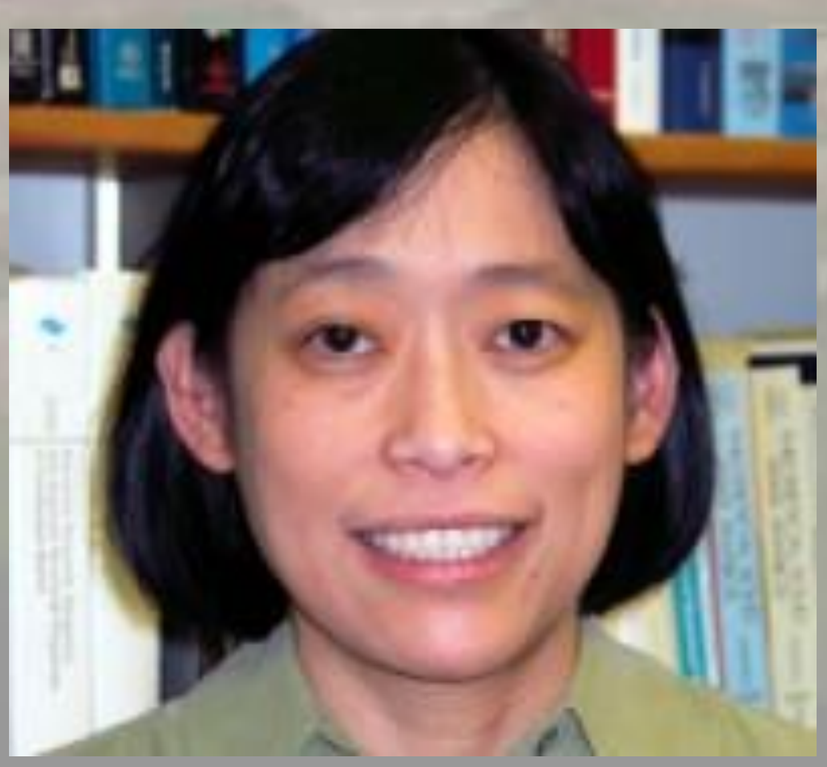
Venue 清华大学理科楼郑裕彤讲堂
&Date 2011年12月28日16:00（星期三）

Abstract: Graphene, a single atomic layer of carbon atoms arranged in a honeycomb lattice, is a unique two-dimensional system with a vanishing effective mass for both the electrons and holes near the Fermi level. Many interesting physical properties of graphene have been identified and investigated within the framework of massless relativistic fermions. When one stacks the graphene layers on top of each other, modification of the physical properties may occur in an unexpected way. In this talk, I will discuss our computational efforts that investigate the special electronic properties of twisted few-layer graphene, such as Fermi velocity renormalization and the fractal features of the Landau levels in twisted bilayer.

Introduction to the Speaker



周美吟，台湾中央研究院原子与分子研究所所长，美国乔治亚理工学院教授及物理系主任；在美国从事研究工作、担任教职20余年，在国际期刊上发表过上百篇论文。她曾获美国国家科学基金会总统年轻学者奖，并担任过美国物理学会计算物理分部主席。她的研究以纳米材料发展为主，运用量子力学原理计算，预测一维和二维的各种材料特性，包括半导体纳米结构、石墨烯、金属薄膜与储氢材料等。