

Weekly Seminar

Emergent opportunities in two-dimensional material research

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Time: 4:00pm, Nov. 29, 2017 (Wednesday)

时间: 2017年11月29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会议室

Abstract

Two-dimensional (2D) atomic crystals, best exemplified by graphene, have emerged as a new class of material that may impact future science and technology. From a material point of view, 2D materials provides vast opportunities on two fronts: First, the reduced dimensionality in these 2D crystals often leads to novel material properties that are different from those in the bulk; Second, the entire 2D crystal is a surface, so it is possible to have better control of their material properties with external perturbations. In this high laber of the material have vastly different properties. Black phosphorus is a 2D semiconductor, and its superior material quality has recently enabled us to observe the quantum