



北京大学量子材料科学

International Center for Quantum Materials

Weekly Seminar

Flatland: the landscape of 2D materials

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Venue: Room W563.

地点: 北京大学物理学院

Abstract

The one-atom-thick crystal like graphene have fantastic properties which open a window to the landscape of the two-dimensional materials beyond graphene that are to be explored. Using chemical synthesis, we have successfully synthesized a wide spectrum of 2D materials in this talk, I will briefly introduce development of 2D materials including the advances in the synthesis of various 2D materials. I will also discuss the unique physical properties of such as (CuInP₂S₄), 2D ferromagnetism and 2D Weyl semi-metallic materials for novel electronics, composite, energy and catalysis.

About the speaker

Dr. Zheng Liu received his B.S. degrees (2005) at Nankai University, Nanoscience and Technology (NCNST, China), working as a postdoctoral fellow in Prof Pulickel M. Ajayan and Prof Jun Lou's group, worked in Prof Pulickel M. Ajayan and Prof Jun Lou's group as a postdoctoral fellow (2012~2013) at Rice University (USA). His research focus on following topics: 1) Synthesis of 2D materials