



清华大学高等研究院

Institute for Advanced Study, Tsinghua University

物理学学术报告 Physics Seminars (biweekly)

Title: Theoretical challenges about some "Kitaev materials"

Speaker: Fa Wang (王垚)
International Center for Quantum Materials, Peking University

Time: 3:30pm, Tuesday, Dec. 8, 2020

Venue: Conference Hall 322, Science Building, Tsinghua University

Abstract

Realizing the Kitaev spin liquid in solid state systems has become one of the major goals of strongly correlated electron community. I will introduce the background and some recent progresses on the iridium-based "Kitaev materials". The development along this line poses serious challenges to theorists, on the accurate determination of the effective spin models for these materials and the accurate computation of the properties of these "Kitaev+..." models. I will describe some of our efforts in this direction.