



Recent Developments in Thermal Hall Experiment and Phenomenology

【摘要】

Thermal Hall effect has become an increasingly important probe for extraordinary physics in condensed matter systems. Relevant interests range from topological orders, to strongly correlated effects, to intricate material properties. There have been many recent experimental advances in techniques, and new discoveries are made; it is therefore an important time to make accompanied progresses in theoretical phenomenology. In this talk I will review the recent status of this field, and introduce some works I did with collaborators, which interpreted some experiments, and helped forming some general directions of thoughts in thermal Hall phenomenology.

References: with Xiao-Qi Sun and Steven Kivelson, [1910.00018] and [2109.12117]

【报告人简介】



Jing-Yuan Chen works on condensed matter theory and formal aspects of quantum field theory. He received B.Sc. from the University of Michigan at Ann Arbor, and Ph.D. from the University of Chicago under supervision by Prof. Dam Thanh Son; afterwards he worked as a Moore postdoc fellow at the Stanford Institute for Theoretical Physics. In 2020 he joined the Institute for Advanced Study at Tsinghua University as a member.

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