



# 复旦大学物理系 物质科学报告

Time: 2:00pm, Tuesday, 2019.10.08

Location: Room C108, Jiangwan Physics Building

**Title:** Weak (anti-)localization in topological materials

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**Abstract:** The weak (anti-)localization effects arise from quantum interference corrections to the conductivity. They show as weak-field magnetoconductivity cusps at low temperatures in disordered metals. In this talk, I review our theoretical works on the weak (anti-)localization and interaction-induced localization effects in topological insulators, 2D materials, and topological semimetals.

## References

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Hai-Zhou Lu obtained his Ph.D. in Physics from Institute for Advanced Study, Tsinghua University, Beijing, in 2007. From 2007 to 2015, he was a Postdoc and then Research Assistant Professor at the University of Hong Kong. In 2015, he joined Southern University of Science and Technology, Shenzhen, China, and now is a Professor of Physics. His research is focused on the quantum transport in

topological states of matter.