APCTP SEMINAR

Pursuits of Topological Superconductivity from Conventional Pairing

Prof. Shengshan Qin

School of Physics, Beijing Institute of Technology

December 19 (Fri.) 16:00(KST)

Online Via Zoom

The seek for the topological superconductivity has been one important issue. Here, we provide some insights for realizing topological superconductivity from conventional pairing. In the first half of the talk, we will introduce our series of early work on the vortex bound states in superconducting topological materials. We show that topological vortex bound states are ubiquitous and develop a unified picture for such a phenomenon. In the latter half, we provide a general method to construct topological superconducting heterostructures. We show that by combining the unconventional band degeneracy and magnetism, when conventional superconductivity is introduced, topological superconductivity can be realized; And there is a correspondence between the magnetic order and the topological superconducting state.

■ **Zoom Meeting Information**
Link: https://us06web.zoom.us/meeting/register/JBVhFbBeTiaVGxJzp5ZMrg
Meeting ID: 890 7678 9911
Password: 0

■ **Contact Information**
Host: Zhesen Yang (zhesen.yang@apctp.org)
Office: Research Support Team (rs@apctp.org)

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