

Webinar

Revealing exotic superconducting pair symmetries in topological semimetals

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I will talk about some exotic superconducting pair symmetries that can appear in different topological semimetals. In the first part of my talk, I will describe that various superconducting pairs appear in Weyl semimetals in proximity to a conventional superconductor, and also discuss how these symmetries help in getting rid of the chirality blockade problem in Weyl semimetals. In the second part, I will show that some other exotic pairs appear when the semimetals are characterized by strong spin-orbit coupling. For the latter case, a new classification is introduced and I will mention the possibility of getting these symmetries in materials.

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4:00 PM