TECHNISCHE UNIVERSITÄT WIEN

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EINLADUNG zum IFP-SEMINAR

Searching for Majorana pairs in superconductor-semiconductor nanowires

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Host: Silke Bühler-Paschen

Termin: Mittwoch, 10. April 2019, 16:00 Uhr

Ort: Institut für Festkörperphysik, TU Wien
Wiedner Hauptstraße 8-10, 1040 Wien
Seminarraum DC rot 07 (roter Bereich, 7. OG)

Abstract:

Single Majorana bound states emerge at each end of a one-dimensional topological superconductor, and pairs of Majorana bound states have been proposed to nonlocally encode quantum information. In superconductor-semiconductor nanowires, a large body of experimental evidence in favor of topological superconductivity has been collected, but the origin of candidate Majorana modes in these systems is debated. I will describe progress we have made on this problem, and report the results of our recent search for correlated Majorana pairs.