北京大学量子材料科学中心

International Center for Quantum Materials, PKU

Seminar

Quantized signature of chiral Majorana fermions

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Time: 16:00am, November 7, 2017 (Tuesday)

时间: 2017年11月7日 (周二) 下午16:00

Venue: Room W563, Physics Building, Peking University

地点:北京大学物理楼 西563

Abstract

In a quantum anomalous Hall insulator coupled to an s-w decomposition of the coupled at the interface forms a px+ipy type of superconductor, which is the coupled to an s-w decomposition of the coupled to an accordance of the coupled to ac

Majorana fermion modes propagating along the edges when the topological order is carefully controlled. Experimental signatures of this mode is captured by **the** magneto-electric transport measurements in a hybrid system of a quantum anomalous Hall insulator [Cr-doped (Bi,Sb)₂Te₃] thin film partially capped by a superconductor layer (Nb). The external magnétic field serves as a k b to tune the system into different topological regimes that allow the degenerate **and non**-degenerate propagation of Majorana edge modes. This tuning was signified **as** quantized conductance transitions among