

凝縮系物理学ゼミナール

Condensed Matter Seminar

Location: Room 401, School of Science Bldg. 5 (理学 5 号館 401 号室)

Date: 13:30-15:00, Monday, 20 February 2012

Topological Invariants and Majorana Edge Channels in Topological Superconductors

Speaker: Prof. Naoto Nagaosa (永長 直人 氏)

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Abstract:

Recently, the topological periodic table has been established, which facilitates the theoretical design of the topological materials including the topological insulators, magnets and superconductors. In this talk, I will discuss some of our recent results on the topological superconductors including the thermal response, quantum critical behavior of the edge channels, and the theoretical design of oxide interface systems.

These works have been done in collaboration with Y. Tanaka, A. Yamakage, K. Nomura, A. Furusaki, S. Ryu, and S. Nakosai.