NCTS Mini-workshop - Frontier Topics on Topology, Non-Fermi Liquid and Strong Correlations in Quantum Many-body Systems

March 2nd – 3rd, 2016

National Chiao-Tung University, Hsinchu

Recently, there has been growing interest both theoretically and experimentally in new materials which exhibit exotic quantum many-body phenomena, including non-trivial topological nature and metallic edge states in topological insulators/superconductors, non-Fermi-liquid behaviors in Kondo impurity and quantum critical systems. These systems often show strong electron correlations where new quantum ground states and phase transitions may occur. Fundamentally new physics is expected to arise.

The purposes of this workshop are to bring together theorists and experimentalists on these topics for discussions and possible collaborations, as well as to introduce this exciting research field to young scholars.

Invited Speakers:

Piers Coleman (Rutgers University, USA)

Stefan Kirchner (Zhejiang University, China)

Miguel Cazalilla (NTHU)

Chung-Hou Chung (NCTU)

Guang-Yu Guo (NTU)

Juhn-Jong Lin (NCTU)

Organizers:

Chung-Hou Chung (NCTU)

Sung-Po Chao (Academia Sinica)

Chung-Yu Mou (NTHU)

Website: http://phys.cts.nthu.edu.tw/actnews/content.php?Sn=275

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