THE NCTS WORKSHOP ON CORRELATED QUANTUM MANY-BODY SYSTEMS : FROM TOPOLOGY TO QUANTUM CRITICALITY

DATE : 25th (Fri.) - 26th (Sat.) May, 2018
VENUE : Lecture Room A of NCTS, 4F, 3rd General Building, National Tsing Hua University

Introduction:

Recently, there has been growing interest in exotic and novel many-body quantum phenomena in condensed matter systems, such as: symmetry-protected topological states （topological insulators, topological superconductors, semi-metals）, un-conventional superconductivity either due to strong correlations or due to non-trivial topology, quantum criticality associated with non-Fermi liquid strange metal behaviors in heavy-fermion/high-Tc cuprate/mesoscopic systems, spin liquid in quantum magnets. New approaches are needed to understand these phenomena. The goal of this workshop is to enhance discussions collaborations on these topics among domestic and international participants as well as to introduce these topics to young physicists and students.

Speakers:

Prof. Chung-Hou Chung (NCTU)
Dr. Jozef Genzor (Kobe University, Japan)
Prof. Guang-Yu Guo (NTU)
Dr. Chang-Tse Hsieh, (Kavli IPMU / ISSP, the University of Tokyo, Japan)
Prof. Juhn-Jong Lin (NCTU)
Mr. Chung-Yu Lo (NTHU)
Prof. Chung-Yu Mou (NTHU)
Prof. Silke Paschen (TU Vienna, Austria)
Prof. Phillip Phillips (UIUC, USA)
Prof. Anders Sandvik (Boston University)
Prof. Jan Zaanen (Leiden U., The Netherlands)
Prof. Guang-Ming Zhang(Tsing Hua University, China)

Local Organizers:

Pochung Chen (NTHU)
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NCTS National Center for Theoretical Sciences