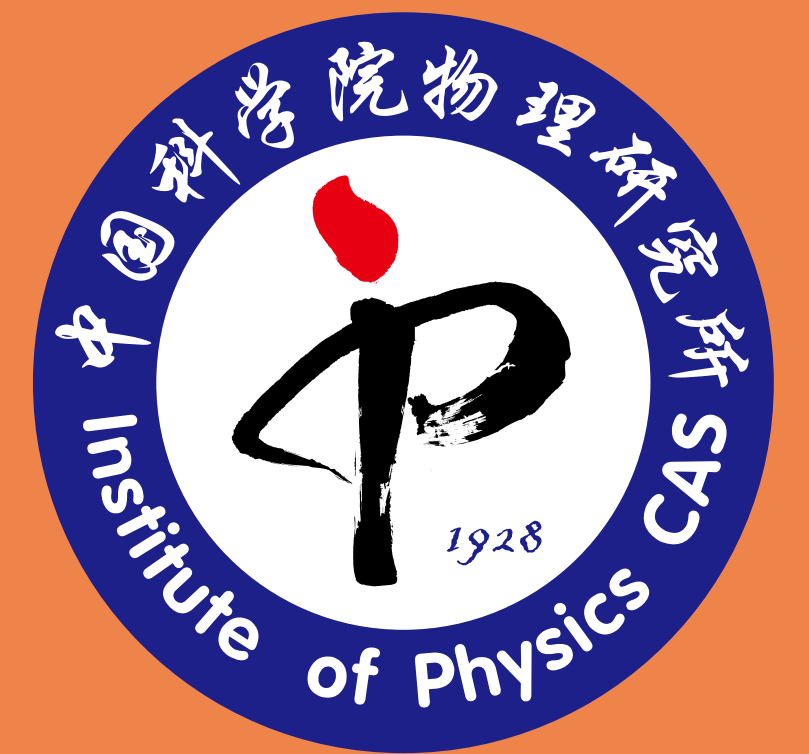


International Workshop on New Paradigms in Quantum Matter

June 25 - July 6, 2018

ABII402, Institute of Physics,
Chinese Academy of Sciences (IOP,CAS),
Beijing, China.



The purpose of the workshop is to discuss new phenomena in quantum matter beyond the conventional paradigms of condensed matter physics, such as the Landau-Ginzburg-Wilson paradigm of spontaneous symmetry breaking, the paradigm of classifying phases by their symmetries, and the paradigm of Fermi liquid for metals, etc. The scientific topics hence include: topological orders such as quantum spin liquids, symmetry protected topological states with and without interaction, new quantum phases such as fractons and higher-rank gauge theories, deconfined and/or itinerant quantum critical points, non-fermi liquids and SYK physics, various dualities in field theories and recent developments in numeric simulations of quantum many-body systems.

Organizer:

Chen Fang (IOP,CAS) Zi Yang Meng (IOP,CAS) Jiangping Hu (IOP,CAS)

Invited Speakers:

- Andrei Bernevig (Princeton University)
- Owen Benton (RIKEN)
- Meng Cheng (Yale University)
- Xie Chen (California Institute of Technology)
- Dominic Else (University of California at Santa Barbara)
- Akira Furusaki (RIKEN)
- Lukas Janssen (Technical University Dresden)
- Ribhu Kaul (University of Kentucky)
- Thomas C. Lang (University of Innsbruck, Austria)
- Eun-Gook Moon (Korea Advanced Institute of Science and Technology)
- Ying Ran (Boston College)
- Anders W. Sandvik (Boston University & IOP,CAS)
- Kai Sun (University of Michigan)
- Masatoshi Sato (University of Kyoto)
- Michael Scherer (University of Koeln, Germany)
- Ashvin Vishwanath (Harvard University)
- Chong Wang (Harvard University)
- Haruki Watanabe (University of Tokyo)
- William Witczak-Krempa (University of Montreal, Canada)
- Cenke Xu (University of California at Santa Barbara)
- Yi-Zhuang You (Harvard University)

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