

International Workshop on New Paradigm in Condensed Matter

November 1-5, 2018

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

The purpose of the workshop is to discuss new paradigms beyond the conventional paradigms of condensed matter physics, such as the paradigm of spontaneous symmetry breaking, the paradigm of classification of topological orders, and the paradigm of Fermi liquid for metals, etc. The scientific topics include quantum spin liquids, symmetry protected topological states, topological interaction, new quantum phases such as fractons and higher-rank gauge theories, deconfined quantum critical points, non-fermi liquids and SYK physics, various dualities, and recent developments in numeric simulations of quantum many-body systems.

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