**Program**

**Registration**

**8:00 am - 9:00 am, Wednesday, July 12th**

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| **July 12th****(Wed.)** | 09:00-09:05 | 09:05-09:50 | 09:50-10:10 | 10:10-10:40 | 10:40-11:20 | 11:20-11:40 | 11:40-12:00 | 12:00-14:00 |  |
| **Opening Ceremony** | **Duncan Haldane** | Dunghai Lee | Break & Group Photo | **Zhengyou Liu** | Shunqing Shen | Zhengfei Wang | Lunch Break |  |
| 14:00-14:40 | 14:40-15:00 | 15:00-15:20 | 15:20-15:40 | 15:40-16:20 | 16:20-16:40 | 16:40-17:00 | 17:00-17:20 | 17:20 |
| **Xianhui Chen**  | Yeliang Wang | Jian Wang  | Coffee Break | **Qi-Kun Xue**  | Guangyu Zhang | Xiao Hu | Guang-Yu Guo | Leave for Banquet |
| **July 13th****(Thu.)** | 09:00-09:40 | 09:40-10:20 | 10:20-10:40 | 10:40-11:00 | 11:00-11:40 | 11:40-12:00 | 12:00-12:20 | 12:20-14:00 |  |
| **Kun Yang** | **Rui-Rui Du** | Li Lu | Coffee Break | **Naoto Nagaosa**  | Shengyuan Yang | Hongming Weng | Lunch Break |  |
| 14:00-14:40 | 14:40-15:00 | 15:00-15:20 | 15:20-15:40 | 15:40-16:20 | 16:20-16:40 | 16:40-17:00 | 17:00-17:20 | 17:20 |
| **Hong Ding** | Yongqing Li  | Zhenyu Zhang  | Coffee Break | **Junren Shi** | Chih-Kang Shih | Yuan Li  | Shengbai Zhang | Dinner |
| **July 14th****(Fri.)** | 09:00-09:40 | 09:40-10:20 | 10:20-10:40 | 10:40-11:00 | 11:00-11:20 | 11:20-11:40 | 11:40-12:20 | 12:20-12:30 | 12:30 |
| **Felix von Oppen**  | **Yoshihiro Iwasa**  | Yongshi Wu | Coffee Break | Dimitrie Culcer | Di Xiao | **Shou-Cheng Zhang** | CLOSING REMARKS | Lunch |

Lunch & Dinner: Second Floor of Yiyuan Restaurant, Zhongguanyuan Global Village

**Contact Us:**

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**Program**

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| **Wednesday, July 12th, 2017** |
| 09:00-09:05 | Opening ceremony  | Qian Niu |
| **Section 1: Topological Quantum Phases****Chair: Qian Niu** |
| 09:05-09:50 | Duncan Haldane*Topological Phases of Quantum Matter and Entanglement* | …......pp 9 |
| 09:50-10:10 | Dunghai Lee*Landau versus Topological Phase Transitions* | …......pp 10 |
| **10:10-10:40** | **Break & Taking Photo** |  |
| **Section 2: Topological Electron and Phonon (1)****Chair: Dunghai Lee** |  |
| 10:40-11:20 | Zhengyou Liu*Valley Acoustics* | …......pp 11 |
| 11:20-11:40 | Shunqing Shen*Chiral Anomaly and Anomalous Finite-Size Conductivity in Graphene* | …......pp 12 |
| 11:40-12:00 | Zhengfei Wang*Surface-Based 2D Topological Materials* | …......pp 13 |
| **12:00-14:00** | **Lunch Break (No. 1 Building, Zhongguanyuan Global Village)** |  |
| **Section 3: Transport in Topological Materials (1)****Chair: Shunqing Shen** |  |
| 14:00-14:40 | Xianhui Chen*Tunable Superconductivity and Phase Transitions by Field Effect Transistor* | …......pp 14 |
| 14:40-15:00 | Yeliang Wang*Epitaxial Growth and Properties of Novel 2D Materials beyond Graphene* | …......pp 15 |
| 15:00-15:20 | Jian Wang*Discovery of Logarithm Law Quantum Oscillations in Ultra-Quantum Materials* | …......pp 16 |
| **15:20-15:40** | **Coffee Break** |  |
| **Section 4: Transport in Topological Materials (2)****Chair: Kun Yang** |  |
| 15:40-16:20 | Qi-Kun Xue *Quantum Anomalous Hall Effect at Higher Temperature*  | …......pp 17 |
| 16:20-16:40 | Guangyu Zhang*2D Semiconductors of Monolayer MoS2* | …......pp 18 |
| 16:40-17:00 | Xiao Hu*Topological Metamaterials Derived from Honeycomb Structure* | …......pp 19 |
| 17:00-17:20 | Guang-Yu Guo*Unconventional Quantum Anomalous Hall Effect in Layered Magnetic Oxides* | …......pp 20 |
| **17:20** | **Leave for Banquet** |  |
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| **Thursday, July 13th, 2017**  |  |
| **Section 1: Exotic Fraction Quantum Hall Effect****Chair: Chih-Kang Shih** |  |
| 09:00-09:40 | Kun Yang*Interplay of Topology and Geometry in Fractional Quantum Hall Liquids* | …......pp 21 |
| 09:40-10:20 | Rui-Rui Du*Nonliner Transport of Composite Fermions at Filling Factor 1/2* | …......pp 22 |
| 10:20-10:40 | Li Lu*Search for Majorana Zero Modes in Rf-SQUIDs Constructed on Bi2Te3 Surface* | …......pp 23 |
| **10:40-11:00** | **Coffee Break**  |  |
| **Section 2: Topological Phase Transition****Chair: Li Lu** |  |
| 11:00-11:40 | Naoto Nagaosa*Nonlinear and Nonreciprocal Responses of Topological Matters* | …......pp 24 |
| 11:40-12:00 | Shengyuan Yang*Some Novel Topological Phases and Controlled Topological Phase Transitions* | …......pp 25 |
| 12:00-12:20 | Hongming Weng*Spontaneous Ferroelectric Distortion Driven Weyl Semimetal in Oxide HgPbO3* | …......pp 26 |
| **12:20-14:00** | **Lunch Break (No. 1 Building, Zhongguanyuan Global Village)** |  |
| **Section 3: Weyl Semimetal****Chair: Rui-Rui Du** |  |
| 14:00-14:40 | Hong Ding*Emergent Fermions in Solid State “Universe”* | …......pp 27 |
| 14:40-15:00 | Yongqing Li*Electron Dephasing in Three-Dimensional Topological Insulators* | …......pp 28 |
| 15:00-15:20 | Zhenyu Zhang*Towards Materials Realization of Topological Superconductivity* | …......pp 29 |
| **15:20-15:40** | **Coffee Break** |  |
| **Section 4: Topological Electron and Phonon (2)****Chair: Zhenyu Zhang**  |  |
| 15:40-16:20 | Junren Shi*Chern-Simons Theory and Dynamics of Composite Fermions* | …......pp 30 |
| 16:20-16:40 | Chih-Kang Shih*Ultra-Thin Two-Dimensional Superconductivity with Strong Spin-Orbit Coupling* | …......pp 31 |
| 16:40-17:00 | Yuan Li*Robust Dirac Magnons in a Highly Interconnected 3D Spin Lattice* | …......pp 32 |
| 17:00-17:20 | Shengbai Zhang*Carbon Honeycomb and its Topological Properties* | …......pp 33 |
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| **Friday, July 14th, 2017** |
| **Section 1: Majorana Fermions (1)****Chair: Di Xiao** |  |
| 09:00-09:40 | Felix von Oppen*Color Code Quantum Computation with Majorana Bound States* | …......pp 34 |
| 09:40-10:20 | Yoshihiro Iwasa*Transition Metal Dichalcogenide Nanomaterials with Noncentrosymmetric Structures* | …......pp 35 |
| 10:20-10:40 | Yongshi Wu*Boundary Hamiltonian Theory for Gapped Topological Phases* | …......pp 36 |
| **10:40-11:00** | **Coffee Break** |  |
| **Section 2: Majorana Fermions (2)****Chair: Yongshi Wu** |  |
| 11:00-11:20 | Dimitrie Culcer*Quantum Kinetic Theory of Magneto-Transport in Topological Materials*  | …......pp 37 |
| 11:20-11:40 | Di Xiao*Microscopic Theory of Spin Toroidization in Periodic Crystals* | …......pp 38 |
| 11:40-12:20 | Shou-Cheng Zhang*Discovery of the Chiral Majorana Fermion* | …......pp 39 |
| 12:20-12:30 | CLOSING REMARKS |  |
| **12:30** | **Lunch** |  |

**Banquet:** Shao Yuan Restaurant, Peking University