Topological Superconductivity: *Theories and Realizations* Exhibition Hall on the 1st floor of HFNL, June 2, 2017

Exhibition Hall on the 1st floor of HFNL, June 2, 2017 (2017年6月2日 理化大楼一楼科技展厅)

Co-Chairs: Zhenyu Zhang & Xianhui Chen (USTC) Co-Sponsors: International Center for Quantum Design of Functional Materials (ICQD) CAS Key Laboratory of Strongly-Coupled Quantum Matter Physics

8:30-8:40 Zhenyu Zhang (USTC) Opening & Welcome Remarks

Chair:

ICQD

International Center Quantum Design of Functional Materials

IC

Bing Wang (USTC)

Chair:	Bing wang (USIC)
8:40-9:10	Jinfeng Jia (Shanghai Jiaotong University)
	Tonological superconductor by provimity effect
	Topological superconductor by proximity cheet
9:10-9:40	Fuchun Zhang (University of Chinese Academy of Sciences)
	Theory for spin dependent tunneling conductance in vortex of topological superconductors
	Theory for spin dependent tunneling conductance in vortex of topological superconductors
9:40-10:10	Li Lv (Institute of Physics, CAS)
	Search for Majorana zero modes in rf-SOUIDs constructed on Bi-Se- surface
10.10_10.20	Photo time & Coffee /Tee Break
10.10-10.50	Photo time & conee/ lea break
Chair:	Xingao Gong (Fudan University)
10:30-11:00	Jiangping Hu (Institute of Physics, CAS)
	Topological physics in iron-based superconductors
11:00-11:30	Yijie Sun & Hong Ding (Institute of Physics, CAS)
	ARPES studies of Fe-based topological superconductors
11:30-12:00	Zhenyu Zhang (USTC)
	Defect-induced topological phase transitions in 2D superconductors

12:00-14:30 Lunch

- Chair: Jiangping Hu (Institute of Physics, CAS)
- 14:30-15:00 Feng Liu (University of Utah, USA)

Topological edge states in high-temperature superconductor FeSe/SrTiO₃(001) film

- 15:00-15:30 Canli Song & Qikun Xue (Tsinghua University) Beta-Bi₂Pd as topological superconductors
- Xiangang Wan (Nanjing University) 15:30-16:00 Realization of massive relativistic spin-3/2 Rarita-Schwinger quasiparticle in condensed matter systems 16:00-16:20 **Coffee/Tea Break** Feng Liu (University of Utah, USA) Chair: Jianxin Li (Nanjing University) 16:20-16:50 Minimum spin model evidencing the Kitaev interaction in alpha-RuCl₃ Xianhui Chen (USTC) 16:50-17:20 Gate-induced superconductivity in topological insulator Bi₂Se₃ **Xincheng Xie** (*Peking University*) 17:20-17:50 **Discrete scale invariance and Efimov physics in Weyl semimetals**



