



清华大学
Tsinghua University



高研20周年 系列学术活动

清华大学高等研究院
科学馆104室



凝聚态物理前沿研讨会

2017.6.29

9:00 am

顾秉林 (清华高研院)

杨振宁 (清华高研院)

Opening

9:20 am-10:00 am

张广铭 (清华大学)

Matrix product states for topological phases with parafermions

10:00 am-10:40 am

寇謨鹏 (北京师范大学)

Majorana Fermions: numerical braiding and universal topological quantum computation

10:40 am-11:00 am

休息

11:00 am-11:40 am

祁晓亮 (Stanford)

Quantum error correction code and black hole information paradox

11:40 am-12:20 pm

戚扬(复旦大学)

A folding trick for classifying 2D mirror symmetry enriched topological orders

2:00 pm-2:40 pm

刘朝星 (Penn State)

Interacting two-channel helical liquids in a bilayer graphene

2:40 pm-3:20 pm

杨帆 (北京理工大学)

Possible triplet superconductivity in the quasi 1D A_2CrAs_3 superconductors

3:20 pm-3:40 pm

休息

3:40 pm-4:20 pm

陈伟强 (南方科技大学)

Nodal and nodeless gap in proximity-induced superconductivity: Application to monolayer CuO_2 on a $Bi_2Sr_2CaCu_2O_{8+\delta}$ substrate

4:20 pm-5:00 pm

姜红臣 (SLAC, Stanford)

Doping quantum spin liquid

5:00 pm-5:40 pm

梅佳伟 (南方科技大学)

Dichotomy between frustrated $S=1/2$ Spins and Itinerant conjugated- π electrons in metal-organic frameworks



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9:00 am-9:40 am

李涛(人民大学)

Absence of a $T^{2/3}$ specific heat anomaly in a $U(1)$ spin liquid with a large spinon Fermi surface: confinement of slave particles and the nonlocal nature of a physical spinon

9:40 am-10:20 am

鹿莞鸣 (Ohio State)

Lieb-Schultz-Mattis theorems for symmetry protected topological phases

10:20 am-10:40 am

休息

10:40 am-11:20 am

汪忠 (清华高研院)

Nodal-link semimetals

11:20 am-12:00 pm

刘正鑫 (人民大学)

Field induced quantum spin liquid states on Honeycomb lattice

2:00 pm-2:40 pm

叶鹏 (UIUC)

Topological Field Theory of symmetry-protected topological phases and Borromean-Rings braiding statistics in three dimensions

2:40 pm-3:20 pm

张龙 (KITS)

A simple model hosting a symmetry-protected topological phase and its quantum phase transitions with unconventional surface critical behavior

3:20 pm-3:40 pm

休息

3:40 pm-4:20 pm

尤逸之 (UIUC)

Fractional Berry phase effect and composite 'Dirac liquid' in Half-filled Landau Level bilayers

4:20 pm-5:00 pm

李自翔 (清华高研院)

Sign-problem-free Majorana quantum Monte Carlo and its applications to topological systems

5:00 pm-5:40 pm

蒋易凡 (清华高研院)

Fermion-induced quantum critical points

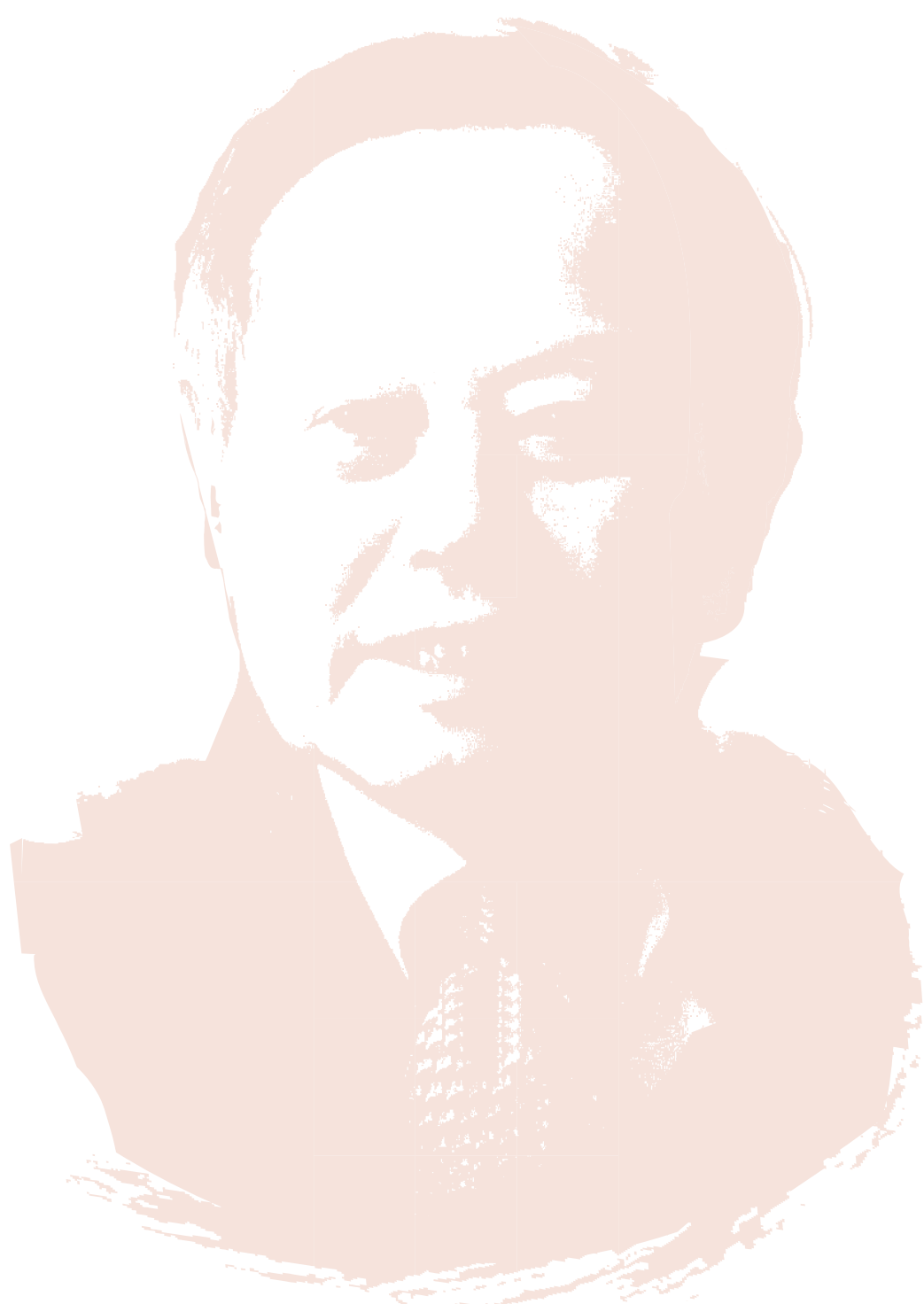


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2017.7.1

9:00 am-9:40 am

卢海舟 (南方科技大学)

Quantum transport in topological semimetals

9:40 am-10:20 am

颜丙海 (Weizmann Institute of Science)

Materials design for topological states

10:20 am-10:40 am

休息

10:40 am-11:20 am

刘峥 (清华高研院)

First-principles prediction and characterization of several frustrated magnets

11:20 am-12:00 pm

徐勇 (清华大学)

Topological quantum states of electrons and phonons: new materials and applications



2017