

**The KITS 2017 Forum:  
New Horizons in Condensed Matter**

**University of Chinese Academy of Sciences,  
Zhong Guan-Cun, Beijing  
March 27-29, 2017**

**The KITS 2017 Forum:  
New horizons in condensed matter**

**Opening session, chaired by Fu-Chun Zhang**

- **Prof. En-Ge Wang**

**Vice President of Chinese Academy of Sciences,**

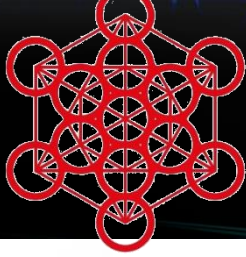
- **Dr. Miyoung Chun, video speech**

**Executive Vice President of Science Program of  
the Kavli Foundation**

- **Prof. Gang Su, Vice President of Univ. of Chinese  
Academy of Sciences**

- **Fu-Chun Zhang, Director of KITS**

**An introduction of KITS**



中国科学院大学  
University of Chinese Academy of Sciences

# Introduction to KITS

## Kavli Institute for Theoretical Sciences

**Fu-Chun Zhang, Director**  
**KITS at UCAS**



# History of KITS

- **KITS is a newly reformulated KITPC, Kavli Institute for Theoretical Physics, China, founded in 2006.**
- **There are 20 Kavli Institutes worldwide endowed by the Kavli Foundation, with 14 in the US, 3 in Europe, 2 in China, and 1 in Japan.**

Twenty Kavli Institutes worldwide  
---- Endowed by the Kavli Foundation in US

**Six Kavli Institutes in Astronomy**

at Stanford, MIT, Cambridge, Chicago, PKU, Tokyo

**Five Kavli Institutes in Nanosciences**

at Cornell, Delft, UC Berkeley, Cal Tech, Harvard

**Seven Kavli Institutes in Neuroscience**

at Columbia, Yale, Johns Hopkins, UCSF,

UC San Diego, Norwegian UST, Rockefeller

**Two Kavli Institutes in Theoretical Sciences**

at UC, Santa Barbara & KITS, UCAS



# Mision and vission

**KITS mission: an international center of excellence in theoretical sciences.**

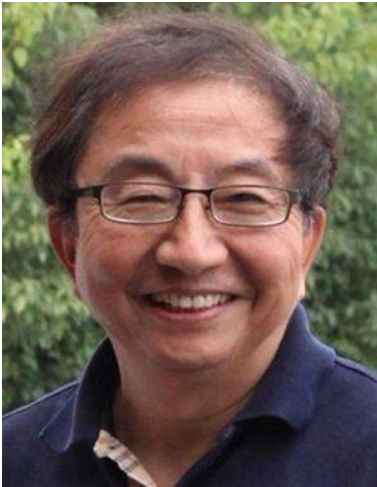
- **Center for knowledge exchange by organizing visitor program, workshops etc. Continuation & further development of KITPC has been doing.**

**Thanks to former director Yue-Liang Wu & his team for building good reputation of the Kavli Inst. in China.**

- **Establish a first class research team (new vision)**

# KITS administrative team

## ◆ KITS Directors



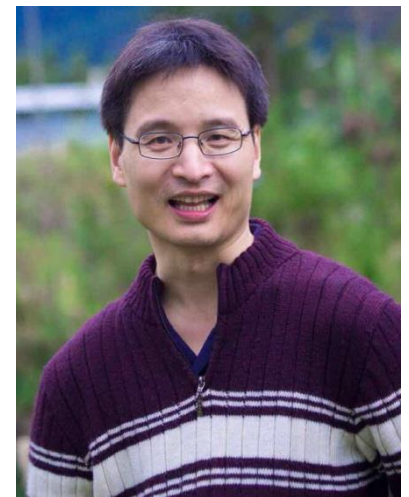
**Fu-Chun Zhang**  
**Director**



**Gang Su**  
**Associate Director**  
**(VP of UCAS)**



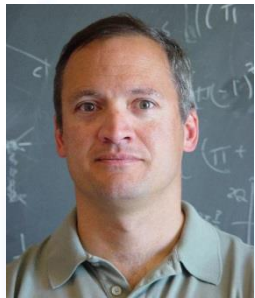
**Xiao-Song Chen**  
**Associate Director**  
**(Associate Director**  
**of Inst Theo. Phys)**



**Jiang-Ping Hu**  
**Assistant Director**  
**(Prof. at IOP)**



# Scientific Advisory Committee



**Leon Balents**  
KITP at UCSB,  
condensed matter  
theory



**William Bialek**  
Princeton University,  
quantitative biology  
and biophysics



**Zhong Fang**  
IOP, CAS,  
computational/condensed matter physics



**Tao Han**  
Pittsburgh, elementary  
particle physics



**Zhong-Can Ou Yang**  
ITP, CAS,  
biophysics and statistical  
mechanics



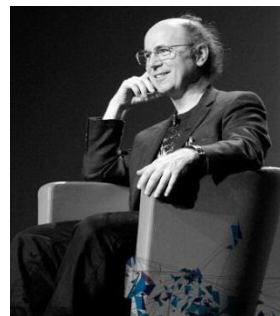
**Thomas Maurice Rice**  
ETH-Zurich,  
condensed  
matter theory



**Chao Tang**  
PKU, quantitative studies  
of biological systems



**Xiao-Gang Wen**  
MIT, condensed matter and  
field theory



**Frank Wilczek**  
MIT, elementary particle physics,  
Nobel laureate in physics, 2004



**Tao Xiang**  
IOP, condensed matter  
theory



**Xin-Cheng Xie**  
PKU, condensed matter  
theory

**Chair**





# recruitment

**KITS will have over 30 faculty openings in theoretical sciences.**

**Initial recruitment will be in theoretical physics and related fields:**

- **Condensed Matter Physics**
- **Elementary particle physics and field theory**
- **Biophysics, quantitative biology**
- **Quantum information/quantum computing**

**KITS will be international. Its faculty includes sizable ratio of non-ethnic Chinese**



# Location

Presently located in Zhong Guan-Cun campus of UCAS. A space of 300 square meters has been remodeled. Move to a new KITS building of 3000 m<sup>2</sup> in 3 years, in suburb campus of UCAS, Beijing, near Lake Yan-Qi, a future science center in China, a beautiful and quiet place.



# Academic Program

- **KITS postdoctoral fellows**
- **Visitor Program**
- **Outreach Program**
- **Short (2-3 weeks) & long term workshop & conferences**



# Future Collaborators

**Institute of Physics, CAS**

**Inst of Theoretical Physics, CAS**

**Kavli Inst. in PKU**

**Institute of Advance Study in Tsinghua**

**KITP, Santa Barbara**

**T.D. Lee Institute of Advanced Study in  
Shanghai**

.....

# My vision of KITS

- **A bridge in science btw China & US/EU/JP**

I moved to HK in 2003, when HK considered as a window for China to the West. Physics in mainland China has been greatly developed since. Sci in China are among leaders on a few topics. KITS may serve as a bridge for exchange in science.

- **A platform for learning new idea**

organizing workshop/conference, from China, Asia & global point of view

- **A home to theorists**

to spend a few weeks a year or so to exchange with others, or think about physics deeply, or to do science while relax



*Thank You!*

**Seek your support  
to KITS!**