

# Physics Department in Tsinghua University



2009年物理系年终总结会合影（昌平军都旅游度假村）



Full Prof. 49; Associate Prof. 24; Assistant Prof. 12.  
Of them 10 members of Chinese Academy of Sciences  
33 Supporting Staffs

- Physics Department Established in 1926 by Professor Qi-sun Ye (Ch'i-Sun Yeh, 叶企孙), soon earned a reputation as the best Physics Departments in China;
- First 10 years: Among 71 graduates, 21 Members of CAS, 1 Member of NAS and 1 Member of NAE.

# History of Tsinghua University



Founded in 1911 in a Royal Garden, Tsinghua Garden as Tsinghua XueTang for training students to study in the US.

1912, Tsinghua School

1928, National Tsinghua Uni.

1929, Est Graduate School

1938, Southwest Associated University, Kunming, with Peking Uni and Nankai Uni.

1946, Beijing, 26 Depts and 5 schools, Linceral Arts, Law, Science, Engineering, Agriculture

1952, became a polytech university through a national restructure

1984, became a comprehensive university again

Now, 14,285 undergraduate students,

21,084 graduate students

1232 Full Professor, 1727 Assoc Professor, Other 2829

36 Mem Chin Academy of Sciences

32 Mem Chin Academy of Engineering

15 Schools, 55 Departments

# Research institutions and their interest:

## ***Institute of Condensed Matter Physics***

Theoretical and experimental studies in condensed matter physics, in particular for nano- and low-dimension structures and strongly correlated systems

Computational condensed matter physics and new materials design

Characterization of various systems, e.g. STM and its application

Acoustic and ultrasonic

17 Professors + 9 Associate Professors+ 5 Assistant Prof.

## ***Institute of High Energy Physics and Nuclear Physics***

Theoretical and experimental particle physics

High energy astrophysics

Quantum computation and teleportation

Theoretical and experimental studies of nuclei under extreme conditions

Nuclear technology and its applications

Electron momentum spectroscopy and its applications

13 Professors + 3 Associate Professors +3 Assistant Prof

## ***Institute of Atomic, Molecular and Optic Physics***

Detecting, identifying and manipulating single atom and molecule

Near-field Optics and Micro-spectroscopy

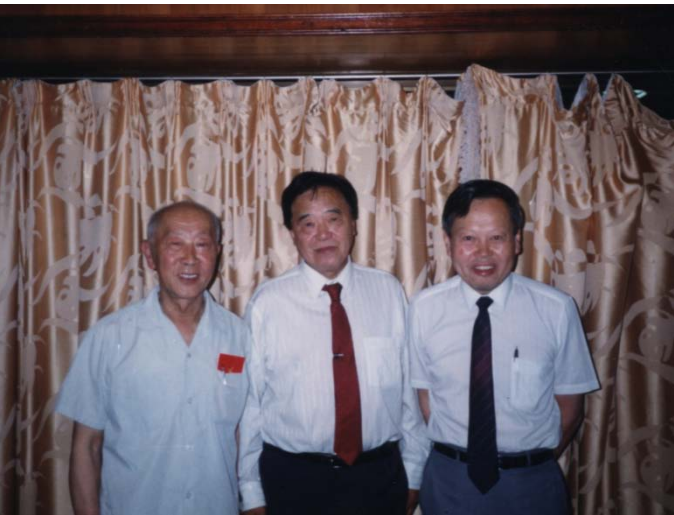
Laser cooling and ultra-cold atomic physics

Nonlinear optics

Quantum optics

9 Professors + 6 Associate Professors+ 2 Assistant Prof





**Alumini: C. N. Yang (Nobel Laureate), T. D. Lee (Nobel Laureate), Kun Huang, Jia-xian Deng, Guang-ya Zhu, *et al.***



**Nine of the 10 members of Chinese Academy of Sciences**

### Recent Research Highlight

T. Zhang, P. Cheng, W. J. Li, Y. J. Sun, G. Wang, X. G. Zhu, K. He, L. L. Wang, X. C. Ma, X. Chen, Y. Y. Wang, Y. Liu, H. Q. Lin, J. F. Jia, Q. K. Xue, "Superconductivity in one-atomic-layer metal films grown on Si(111)", *Nature Physics* 1499 [Nature Physics 6 104 \(2010\).pdf](#)



**Prof. Q. K. Xue**