



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213室



## WORKSHOP IN NUMBER THEORY

Organizer:

Ye Tian (Chinese Academy of Sciences),  
Shou-Wu Zhang (Princeton University / IAS, Tsinghua)

**July 26, 2017**

**9:00am-9:50am**

**Qin Hourong, Nanjing University**

Congruent numbers, ternary quadratic forms and  $K_2$

**10:00am-10:50am**

**Ashay Burungale, Princeton IAS**

Horizontal variation of the arithmetic of elliptic curves

**11:00am-11:50am**

**Qiu Yannan, Columbia University**

Bessel Functions on  $GL(n)$

**3:00pm-3:50pm**

**Gao Ziyang, Princeton University**

Heights in families of abelian varieties and the geometric Bogomolov conjecture

**4:00pm-4:50pm**

**Zheng Weizhe, AMSS, CAS**

Nearby cycles over general bases and duality

**5:00pm-5:50pm**

**Hu Yongquan, AMSS, CAS**

Some results on Galois deformation rings of  $\text{Gal}(\bar{\mathbb{Q}}_p/\mathbb{Q}_p)$

**July 27, 2017**

**9:00am-9:50am**

**Liu Yifeng, Northwestern University**

Supersingular locus of quaternionic Shimura varieties and arithmetic applications

**10:00am-10:50am**

**Li Chao, Columbia University**

Arithmetic fundamental lemma in the minuscule case

**11:00am-11:50am**

**Shen Xu, AMSS, CAS**

Stratifications in good reductions of Shimura varieties

