



清華大學
Tsinghua University

NEW DEVELOPMENTS IN ARITHMETIC GEOMETRY

Organizer: Ye Tian (Chinese Academy of Sciences),
Shou-Wu Zhang (Princeton and Tsinghua)
Address: Conference Hall 322, Science Building,
Tsinghua University

Thursday, June 14

9:30-10:30	Dorian Goldfeld (Columbia University) <i>Orthogonality relations for the Fourier coefficients of $GL(n)$ cusp forms</i>
11:00-12:00	Hang Xue (University of Arizona) <i>ϵ-dichotomy for linear models</i>
2:30-3:30	Winnie Li (U. Penn) <i>Noncongruence modular forms: advances and challenges</i>
4:00-5:00	Will Chen (IAS, Princeton) <i>Noncongruence subgroups of $SL(2, \mathbb{Z})$ and nonabelian level structures for elliptic curves</i>

Friday, June 15

9:30-10:30	Wei Zhang (Columbia and MIT) <i>Selmer groups for Rankin-Selberg L-functions of $GL(2) \times GL(3)$</i>
11:00-12:00	Xin Wan (Chinese Academy of Sciences) <i>BSD formula for elliptic curves and modular forms</i>

Saturday, June 16

9:30-10:30	Xinyi Yuan (UC Berkeley) <i>Positivity of Hodge bundles of abelian varieties</i>
11:00-12:00	Xuhua He (University of Maryland) <i>Some results on affine Deligne-Lusztig varieties</i>
2:30-3:30	Ruochuan Liu (Beijing University) <i>Towards a p-adic Riemann-Hilbert correspondence</i>
4:00-5:00	Yongquan Hu (Chinese Academy of Sciences) <i>Asymptotic growth of the cohomology of Bianchi groups</i>

Sunday, June 17

9:30-10:30	Alex Smith (Harvard University) <i>2^k-Selmer groups, 2^k-class groups, and Goldfeld's conjecture</i>
11:00-12:00	Weizhe Zheng (Chinese Academy of Sciences) <i>Compatible systems along the boundary</i>