

SS4A: Arithmetic Algebraic Geometry and related topics

Organizers:

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- ◇ **Le Hung Viet Bao**, Northwestern University,
- ◇ **Ngo Dac Tuan**, CNRS and University of Caen Normandy.

June 12 (Wednesday)

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|-------|---|---------|
| 10:00 | A survey of computer-assisted proofs in arithmetic algebraic geometry and number theory
Thomas C. Hales
University of Pittsburgh | [p.106] |
| 11:00 | Integration in algebraically closed valued fields and non-Archimedean Milnor fibers
Lê Quy Thuong
Vietnam National University, Hanoi | [p.107] |
| 15:00 | On the Hitchin map for higher dimensional varieties
B.C. Ngo
University of Chicago and VIASM | [p.108] |
| 16:00 | Hyperelliptic curves over function fields are pointless
Dao Van Thinh
National University of Singapore | [p.109] |
| 16:30 | The dimension growth conjecture, polynomial in the degree and without logarithmic factors
K. H. Nguyen
KU Leuven | [p.110] |

June 13 (Thursday)

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| 10:00 | Local systems and simple groups
Pham Huu Tiep
Rutgers University | [p.113] |
| 11:00 | An Extension of Results by Mahler and Corvaja-Zannier
Khoa D. Nguyen
University of Calgary | [p.112] |

- 13:30 **On the Kudla-Rapoport conjecture**
Chao Li
Columbia University [p.111]
- 15:00 **The infinite rank of abelian varieties over some fields with
finitely generated Galois group**
Bo-Hae Im
KAIST
(Korea Advanced Institute of Science and Technology) [p.114]
- 16:00 **CM liftings of K3 surfaces and the Tate conjecture**
Teruhisa Koshikawa
Kyoto University [p.115]
- 16:30 **Vanishing of Massey products in Galois cohomology**
Nguyen Duy Tan
Institute of Mathematics, VAST [p.116]