

Arithmetic and Algebraic Geometry 2015

Organizers: T. Katsura, S. Kondo, A. Moriwaki, S. Mukai,
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Dates : January 27 (Tuesday)–January 31 (Saturday), 2015

Place : Graduate School of Mathematical Sciences
The University of Tokyo

Program:

January 27 (Tuesday)

11:00–12:00 : Gerard van der Geer (Univ. Amsterdam)

Vector-valued modular forms of low genus

13:40–14:40 : Tomohide Terasoma (Univ. Tokyo)

Mixed elliptic motives and depth filtration of multiple zeta values

15:10–16:10 : Shunichi Kimura (Hiroshima Univ.)

Rationality and Irrationality of (infinitesimal) motivic Chow Series

16:30–17:30 : Masato Kuwata (Chuo Univ.)

Elliptic K3 surfaces with Mordell-Weil rank 18

January 28 (Wednesday)

10:00–11:00 : Jaap Top (Univ. Groningen)

First order differential equations

11:20–12:20 : Ichiro Shimada

Holes of the Leech lattice and projective models of K3 surfaces

13:40–14:40 : JongHae Keum (KIAS)

Moduli space of Enriques surfaces with a fixed ADE-configuration

15:10–16:10 : Noboru Aoki (Rikkyo Univ.)

Algebraic cycles on Fermat varieties

16:30–17:30 : Toshiyuki Katsura (Hosei Univ.)

On a 1-dimensional family of Enriques surfaces in characteristic 2

January 29 (Thursday)

10:00–11:00 : Luc Illusie (Univ. Paris XI)

Around the Thom-Sebastiani theorem

11:20–12:20 : Keiji Oguiso (Osaka Univ.)

Automorphisms of elliptic K3 surfaces and Salem numbers of
maximal degree

- 13:40–14:40 : Christian Liedtke (München Univ.)
Supersingular K3 Surfaces are Unirational
- 15:10–16:10 : Matthias Schütt (Leibniz Univ. Hanover)
Profile of some beautiful K3 surfaces
- 16:30–17:30 : Tetsuji Shioda (Rikkyo Univ.)
Mordell-Weil lattice of higher genus fibration on a Fermat surface
- 18:00–19:45: Banquet
- January 30 (Friday)
- 10:00–11:00 : Eric Urban (Columbia Univ.)
p-adic families of automorphic periods and p-adic L-functions
- 11:20–12:20 : Atsushi Ichino (kyoto Univ.)
The Gross-Prasad conjecture and local theta correspondence
- 13:40–14:40 : Masato Kurihara (Keio Univ.)
Arithmetic of zeta elements for the Tate motive
- 15:10–16:10 : Masanori Asakura (Hokkaido Univ.)
Period conjecture of Gross-Deligne for fibrations
- 16:30–17:30 : Shuji Saito (Tokyo Inst. Tech.)
 K -theory of rigid spaces and topological Chow groups of algebraic varieties
- January 31 (Saturday)
- 10:00–11:00 : Abhinav Kumar (MIT)
Moduli spaces of abelian surfaces via elliptic K3 surfaces with Shioda-Inose structure
- 11:20–12:20 : Takeshi Saito (Univ. Tokyo)
The characteristic cycle and the singular support of an étale sheaf

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