

Arithmetic and Algebraic Geometry 2013

科学研究費補助金基盤研究(S)No.23224001(代表者:中村郁),基盤研究(S)No.24224001(代表者:斎藤政彦),東京大学Global COE「The Research and Training Center for New Development in Mathematics」(リーダー:川又雄二郎)により、標記のような研究集会を下記の要領で開催しますのでご案内致します。

Organizers: G. van der Geer (Univ. Amsterdam)
T. Katsura (Hosei Univ.)
I. Nakamura (Hokkaido Univ.)
T. Terasoma (Univ. Tokyo)

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Dates : January 28 (Monday)–January 31 (Thursday), 2013

Place: Graduate School of Mathematical Sciences

The University of Tokyo

Program:

January 28 (Monday)

10:00–11:00 : Shigeru Mukai (RIMS)

Enriques surfaces and Igusa quartic

11:20–12:20 : Fumiharu Kato (Kumamoto Univ.)

TBA

13:40–14:40 : Gerard van der Geer (Univ. Amsterdam)

Modular forms for genus 2 and 3

15:10–16:10 : Kentaro Mitsui (Kobe Univ.)

Homotopy exact sequences for fibrations with non-reduced geometric fibers

16:30–17:30 : Takehiko Yasuda (Osaka Univ.)

Stringy invariants of p -cyclic quotient singularities

January 29 (Tuesday)

10:00–11:00 : Eyal Goren (McGill Univ.)

On a conjecture of Bruinier-Yang

11:20–12:20 : Ichiro Shimada (Hiroshima Univ.)

Supersingular K3 surfaces with Artin invariant 10

13:40–14:40 : Tetsuji Shioda (Rikkyo Univ./RIMS)

Manin's map and Mordell-Weil Lattices

15:10–16:10 : Hisanori Ohashi (Tokyo Univ. Sci.)

On automorphisms of Enriques surfaces

16:30–17:30 : Matthias Schuett (Leibniz Univ. Hanover)
 Picard numbers of quintic surfaces

18:00: Reception

January 30 (Wednesday)

10:00–11:00 : Lin Weng (Kyushu Univ.)
 Higher rank zeta functions and Riemann hypothesis for elliptic curves

11:20–12:20 : Ching-Li Chai (Univ. Pennsylvania)
 The Hecke orbit problem and local symmetries

13:40–14:40 : Kazuhiro Fujiwara (Nagoya Univ.)
 TBA

15:10–16:10 : Shinichi Kobayashi (Tohoku Univ.)
 A p-adic approach to the Birch and Swinnerton-Dyer conjecture

16:30–17:30 : Masato Kurihara (Keio Univ.)
 Refined Iwasawa theory and refined Birch Swinnerton-Dyer conjecture

January 31 (Thursday)

10:00–11:00 : Guido Kings (Regensburg Univ.)
 TBA

11:20–12:20 : Iku Nakamura (Hokkaido Univ.)
 The closed immersions of the compactification $SQ_{g,K}^{\text{toric}}$ into
 Alexeev's complete moduli $\overline{AP}_{g,N}$

13:40–14:40 : Tomohide Terasoma (Univ. Tokyo)
 Brown-Zagier identity for associator

15:00–16:00 : Shuji Saito (Tokyo Inst. Tech.)
 Existence conjecture for smooth sheaves on varieties over finite fields