

JOINT WORKSHOP ON NUMBER THEORY BETWEEN JAPAN AND TAIWAN

at Waseda University
From March 9 to 11, 2009

Supporting Organizations

Institute of Pure and Applied Mathematics of Waseda University
Waseda Institute for Advanced Study (WIAS)

Organizers

YU, Jing (National Tsing Hua)
KOMATSU, Kei-ichi (Waseda) HASHIMOTO, Ki-ichiro (Waseda)
UMEGAKI, Atsuki (WIAS)

March 9

10:00 – 10:50 MORISAWA, Takayuki (Waseda)

A class number problem in the cyclotomic $\mathbb{Z}_3$ extension of $\mathbb{Q}$

11:10 – 12:00 AIBA, Akira (Ibaraki)

Analogy of the Weber's class number problem
in positive characteristic case (after Gold-Kisilevsky)

13:45 – 14:45 YAMAMURA, Ken (National Defense Academy)

Showing $h(K) = 1$ or $K_{ur} = K$ and related topics

15:00 – 15:50 OKAZAKI, Ryotaro (Doshisha)

On the sizes of relative units of the real abelian number fields
of 2-power conductors

16:00 – 16:50 ASADA, Mamoru (Kyoto Institute of Tech.)

On Galois Groups of abelian extensions of the field generated
by l -th roots of unity for all primes l

17:00 – 17:50 KURIHARA, Masato (Keio)

On the Stickelberger ideals for cyclotomic fields

March 10

10:00 – 10:30 KODA, Hideki (Waseda)

On hyperelliptic curves of split type and relations of Jacobstahl sums

10:45 – 11:30 KAWACHI, Mayumi (Tokyo Metropolitan)

Leading coefficients of isogenies of degree p over $\mathbb{Q}_p$

13:15 – 14:00 HASEGAWA, Takehiro (Tsuru)

A tower of function fields related to an arithmetic geometric mean

14:10 – 15:00 NAMIKAWA, Ken-ichi (Osaka)

On mod p non-vanishing of special values of L-functions associated to modular forms over imaginary quadratic fields

15:10 – 16:00 CHANG, Chieh-Yu (National Tsing Hua)

On periods and logarithms for Drinfeld modules

16:10 – 17:00 YU, Jing (National Tsing Hua)

On tori and a Galois theory for special Gamma values in positive characteristic

March 11

10:00 – 10:50 HASHIMOTO, Ki-ichiro (Waseda)

AB-cycles on modular curves

11:10 – 12:00 YANG, Yifan (National Chiao Tung)

Construction and application of a class of modular functions

13:45 – 14:35 WANG, Chian-Jen (National Tsing Hua)

A Representation Theoretic Approach to Zeta Function of Complexes

14:55 – 15:45 KOBAYASHI, Shin-ichi (Nagoya)

Integral structures on p -adic Fourier theory

16:00 – 16:50 SUZUKI, Masatoshi (Tokyo)

Continuous deformations of the Riemann zeta-function

17:00 – 17:50 OKANO, Keiji (Waseda)

The commutativity of the maximal unramified pro- p -extensions over the cyclotomic $\mathbb{Z}_p$ -extensions