

## Galois-theoretic Arithmetic Geometry

**Dates:** October 19-24, 2010

**Venue:** International Institute for Advances Studies and Keihanna Plaza Hotel, Kyoto, Japan

**Organizing Committee:** H. Nakamura (Chair); F. Pop; L. Schneps; A. Tamagawa; Y. Hoshi

### Program

#### **19 Tuesday**

Arrival Day

19:00-23:00      Night Session

#### **20 Wednesday**

09:40-09:45      H. Nakamura      Opening Remarks

09:45-10:45      K. Hashimoto      Noether's Problem for transitive permutation groups of degree 6 and the moduli spaces of genus 2 curves with prescribed endomorphism structures of their jacobians

11:00-12:00      M. Kakde       $L$ -functions and  $K$ -theory

12:00-13:30      Lunch Break

13:30-14:30      Programme du jour

14:45-15:45      H. Tokunaga      Splitting curves in double covers and elliptic surfaces

16:00-17:00      Z. Wojtkowiak      Periods of mixed Tate motives -  $\ell$ -adic Galois side, examples

17:00-19:00      Dinner Break

19:00-23:00      Night Session

#### **21 Thursday**

09:45-10:45      S. Morita      Structure of the space of symplectic invariant tensors and its applications in the tautological algebra of the moduli space of curves and beyond

11:00-12:00      N. Imai      Dimensions of moduli spaces of finite flat models

12:00-13:30      Lunch Break

13:30-14:30      Programme du jour

14:45-15:45      C. Rasmussen      Finiteness results on abelian varieties with constrained torsion

16:00-17:00      A. Obus      Lifting Cyclic Extensions

17:00-19:00      Dinner Break

19:00-23:00      Night Session

**22 Friday**

09:45-10:45	S. Carr	Moulds and multiple zeta values
11:00-12:00	S. Corry	Galois branched covers of finite graphs
12:00-13:30	Lunch Break	
13:30-14:30	Programme du jour	
14:45-15:45	T. Ichikawa	Motivic properties of modular groups
16:00-17:00	P. Debes	The Regular Inverse Galois Problem and the Hilbert-Grünwald property
18:30-20:30	Banquet	
20:00-23:00	Night Session	

**23 Saturday**

09:45-10:45	J. Tong	On the variation of fundamental groups
11:00-12:00	A. Auel	A Milnor conjecture for $p$ -adic curves
12:00-13:30	Lunch Break	
13:30-14:30	Programme du jour	
14:45-15:45	G. Yamashita	$p$ -adic multiple zeta values and motivic Galois group
16:00-17:00	G. Quick	Galois actions on étale homotopy types
17:00-19:00	Dinner Break	
19:00-23:00	Night Session	

**24 Sunday**

Departure Day  
(Rental Bus to Kyoto Hotels)