

Joint MSJ-RIMS Conference

“Development of Galois -Teichmüller Theory and Anabelian Geometry”

Date: October 25—30, 2010 / Place: RIMS, Kyoto University, Room 420

Organizers: H.Nakamura (Chair), F.Pop, L.Schneps, A.Tamagawa

October 25 Monday

- 9:30--9:45 Takashi Tsuboi (President of the Mathematical Society of Japan):
Opening remarks
- 9:45--9:50 General information from the organizing committee
- 10:00--11:00 P. Cartier (IHÉS) :
Towards Grothendieck's "Dessins d'Enfants"
- 11:30--12:20 Y. André (CNRS) :
Introduction to tempered anabelian geometry
- Lunch --
- 14:30--15:20 P. Lochak (CNRS):
Grothendieck-Teichmüller theory from a topological viewpoint
- Tea --
- 16:00--16:50 M. Asada (Kyoto Institute of Technology), H. Nakamura (Okayama University),
N. Takao (RIMS, Kyoto University), H. Tsunogai (Sophia University):
Easy walking in GT theory and anabelian geometry, I
- 17:10--18:00 M. Asada(Kyoto Institute of Technology), H. Nakamura (Okayama University),
N. Takao (RIMS, Kyoto University), H. Tsunogai (Sophia University):
Easy walking in GT theory and anabelian geometry, II

October 26 Tuesday

- 10:00--11:00 L. Schneps (CNRS):
Survey of the theory of multiple zeta values
- 11:30--12:20 I. Marin (Université Paris Diderot):
Rigidity characters for the Grothendieck-Teichmüller group
- Lunch --
- 14:30--15:20 A. Schmidt (Heidelberg University):
Motivic aspects of anabelian geometry
- Tea --
- 16:00--16:50 J. Stix (Heidelberg University) :
On the passage from local to global in Grothendieck's section conjecture
- 17:10--18:00 J. Ellenberg (University of Wisconsin) :
Ihara's braid group and fundamental groups of random curves

October 27 Wednesday

- 10:00--11:00 K. Wickelgren (Harvard University) :
Etale π_1 obstructions to rational points
- 11:30--12:20 F. Pop (University of Pennsylvania):
On the p-adic section conjecture

-- Lunch --

Free discussions



October 28 Thursday

10:00--11:00 M. Saïdi (Exeter University), A. Tamagawa (RIMS, Kyoto University):

Survey on anabelian geometry in positive characteristic

11:30--12:20 R. Sharifi (University of Arizona) :

Investigations in the Galois cohomology of number fields

-- Lunch --

14:30--15:20 Y. Ihara (RIMS, Kyoto University):

Arithmetic questions on $\pi_1(\mathbb{P}^1 - \{0, 1, \infty\})$ at p

-- Tea --

16:00--16:50 D. Harbater (University of Pennsylvania) :

Local-global principles over arithmetic curves

18:30-- Banquet

October 29 Friday

10:00--11:00 S. Mochizuki (RIMS, Kyoto University):

Inter-universal Teichmüller Theory: A Progress Report

11:30--12:20 M. Matsumoto (University of Tokyo) :

Universal mixed elliptic motive and derivation algebra of the fundamental group of one-punctured elliptic curve (joint work with Richard Hain)

-- Lunch --

14:30--15:20 F. Brown (CNRS) :

On the coalgebra structure of motivic multiple zeta values

-- Tea --

16:00--16:50 H. Furusho (Nagoya University) :

Geometric interpretation of double shuffle relations of multiple polylogarithms at roots of unity

October 30 Saturday

10:00--11:00 M. A. Garuti (Università degli Studi di Padova):

Galois closures and the fundamental group scheme

11:30--12:20 Y. Hoshi (RIMS, Kyoto University):

Survey on the combinatorial anabelian geometry of hyperbolic curves

-- Lunch --

Free discussions