

First friendship meeting in mathematics between Fudan and Kyoto Universities

Day : January 11, 2010 – January 15

Place : Kyoto University Clock Tower Centennial Hall

International Conference Hall I

<http://www.kyoto-u.ac.jp/en/clocktower>

Invited speakers

Chen Xiaoman (Fudan University)

Ito Tetsushi (Kyoto University)

Kumagai Takashi (Kyoto University)

Li Xiangdong (Fudan University)

Okamoto Hisashi (RIMS)

Tsukamoto Masaki (Kyoto University)

Yu Guoliang (Vanderbilt University)

Zheng Xinghua (Hong Kong University of Science and Technology)

Program

	11(Mon.)	12(Tue.)	14(Thu.)	15(Fri.)
9:30 ~ 11:00	Okamoto Hisashi	Ito Tetsushi	Kumagai Takashi	Tsukamoto Masaki
11:30 ~ 13:00	Li Xiangdong	Chen Xiaoman	Yu Guoliang	Zheng Xinghua
14:30 ~ 15:00	Ren Qinggang	Nakashima Makoto	Liu Liyu	Liu Jianli
15:00 ~ 15:30	Fukaya Tomohiro	Wang Xinyi	Mori Shingo	Qu Peng
16:00 ~ 16:30	Fu Benyin	Shiraishi Daisuke	Cui Aoxiang	Yang Wei
16:30 ~ 17:00	Hasebe Takahiro	Takemura Tomoko	Mitsui Kentaro	Tanaka Ryokichi
17:30 ~ 18:00	Wu Yan	Qu Aifang	Wang Shengqiang	Zhu Can
18:00 ~ 18:30	Hatakenaka Eri	Zhao Wenjing	Minamoto Hiroyuki	Kimura Yoshiyuki

Organizing Committee

Tsuyoshi Kato (Kyoto University) Chen Xiaoman (Fudan University)
Tomohiro Fukaya (Kyoto University) Ren Qinggang (Fudan university)

January 11 (Mon)

- 9:30 ~ 11:00 Okamoto Hisashi (RIMS)
The Navier-Stokes equations and related paradoxes.
- 11:30 ~ 13:00 Li Xiangdong (Fudan university)
On the L^p -estimates and existence theorems for the De Rham operator and the Cauchy-Riemann operator
- 13:00 ~ 14:30 Lunch
- 14:30 ~ 15:00 Ren Qinggang (Fudan university)
3-manifold group and finite decomposition complexity
- 15:00 ~ 15:30 Fukaya Tomohiro (Kyoto university)
Coarse Geometry, Higson corona and fixed point theorem
- 15:30 ~ 16:00 Tea time
- 16:00 ~ 16:30 Fu Benyin (Fudan university)
Noncommutative Fejer theorem
- 16:30 ~ 17:00 Hasebe Takahiro (Kyoto university)
Cumulants in noncommutative probability theory
- 17:00 ~ 17:30 Tea time
- 17:30 ~ 18:00 Wu Yan (Fudan university)
Reducing Subspaces of Toeplitz Operators on N^* -type Quotient Modules on the Torus
- 18:00 ~ 18:30 Hatakenaka Eri (Tokyo University of Agriculture and Technology)
Invariants of 3-manifolds derived from covering presentations

January 12 (Tue)

- 9:30 ~ 11:00 Ito Tetsushi (Kyoto university)
Introduction to modular forms and non-abelian class field theory
- 11:30 ~ 13:00 Chen Xiaoman (Fudan university)
Operator Norm Localization and Finite Decomposition Complexity Property
- 13:00 ~ 14:30 Lunch
- 14:30 ~ 15:00 Nakashima Makoto (Kyoto university)
On the behavior of the population density for branching random walks
- 15:00 ~ 15:30 Wang Xinyi (Fudan university)
Some Greeks formulas for hypoelliptic Brownian motion on Lie group
- 15:30 ~ 16:00 Tea time
- 16:00 ~ 16:30 Shiraishi Daisuke (Kyoto university)
Exact value of the resistance exponent for four dimensional random walk trac

- 16:30 ~ 17:00 Takemura Tomoko (Nara Women university)
Feller property of skew product diffusion
- 17:00 ~ 17:30 Tea time
- 17:30 ~ 18:00 Qu Aifang (Fudan university)
Reflection of rarefaction waves in a convex duct
- 18:00 ~ 18:30 Zhao Wenjing (Fudan university)
Local well-posedness of lower regularity solutions for the incompressible viscoelastic fluid system

January 13 (Wed)

Excursion.

January 14 (Thu)

- 9:30 ~ 11:00 Kumagai Takashi (Kyoto university)
Analysis on fractals and random media
- 11:30 ~ 13:00 Yu Guoliang (Vanderbilt university)
Geometric complexity and topological rigidity
- 13:00 ~ 14:30 Lunch
- 14:30 ~ 15:00 Liu Liyu (Fudan university)
Homological properties of quantum homogeneous spaces
- 15:00 ~ 15:30 Mori Shingo (Kyoto university)
TBA
- 15:30 ~ 16:00 Tea time
- 16:00 ~ 16:30 Cui Aoxiang (Fudan university)
Boundedness Theorem for Canonically Fibered Gorenstein Minimal 3-Folds of General Type
- 16:30 ~ 17:00 Mitsui Kentaro (Kyoto university)
Classification of rigid analytic surfaces
- 17:00 ~ 17:30 Tea time
- 17:30 ~ 18:00 Wang Shengqiang (Fudan university)
On the double Ore extension of Koszul algebras
- 18:00 ~ 18:30 Minamoto Hiroyuki (Kyoto university)
Ampleness of two-sided tilting complexes

January 15 (Fri)

- 9:30 ~ 11:00 Tsukamoto Masaki (Kyoto university)
An introduction to Gromov's mean dimension theory
- 11:30 ~ 13:00 Zheng Xinghua (Hong Kong University of Science and Technology)
Spatial epidemics: occupation statistics, scaling limits and a phase transition
- 13:00 ~ 14:30 Lunch

- 14:30 ~ 15:00 Liu Jianli (Fudan university)
The study of timelike extremal surface in Minkowski space
- 15:00 ~ 15:30 Qu Peng (Fudan university)
The mechanism of the formation of the singularity for quasilinear hyperbolic systems.
- 15:30 ~ 16:00 Tea time
- 16:00 ~ 16:30 Yang Wei (Fudan university)
Global results for an SIRS model with vaccination and isolation
- 16:30 ~ 17:00 Tanaka Ryokichi (RIKEN, Kyoto university)
Toward a network theory of the biological system.
- 17:00 ~ 17:30 Tea time
- 17:30 ~ 18:00 Zhu Can (Fudan university)
On the skew group algebra of Calabi-Yau algebras
- 18:00 ~ 18:30 Kimura Yoshiyuki (Kyoto university)
Affine quiver and the crystal $B(\infty)$