Monday, 19 January

R202, 9:50-10:50

Prof. Motoko Kotani (Tohoku University)

Mathematical challenge to structural understanding of materials

R202, 11:00-12:00

Prof. Panki Kim (Seoul National University)

Global Dirichlet Heat Kernel Estimates for Symmetric Levy Processes in Half-space

13:30-14:00

Tomomi Ozawa (Tohoku University)

Constant terms of Eisenstein series over a totally real field

Liping Zhang (Fudan University)

Homotopy for Rational Riccati Equations Arising in Stochastic Optimal Control

14:10-14:40

Tse-Chung Yang (Academia Sinica)

Supersingular abelian surfaces and Eichler class number formula

Takeshi Gotoda (Kyoto University)

The alpha point vortex system and enstrophy variations

14:50-15:20

Fuetaro Yobuko (Tohoku University)

Mass Formula for Supersingular Abelian Varieties

Cheng-Fang Su (National Central University)

The solvability of a linear parabolic equation without weak solutions

15:40-16:10

Yibin Ren (Fudan University)

Rigidity Theorems for Complete Sasakian Manifolds with Constant Pseudo-Hermitian Scalar Curvature

Ryuichi Sato (Tohoku University)

Heat equation with a nonlinear boundary condition and unbounded initial functions

16:20-16:50

Jifu Xiao (Kyoto University)

Toric degeneration, Conifold Transition, and Quantum Cohomology

Junya Nishiguchi (Kyoto University)

Stabilization of unstable steady solution by delayed feedback control

17:00-17:30

Toshihisa Kubo (University of Tokyo)

Covariant differential operators and the Rankin–Cohen bracket

Jie Kuang (Fudan University)

Two-dimensional steady supersonic exothermically reacting Euler flow past a bending wall

Tuesday, 20 January

R202, 9:30-10:30

Prof. Zhiqiang Wang (Fudan University)

Stabilization of extrusion process modeled by hyperbolic systems coupled through a moving interface

R202, 10:40-11:40

Prof. Yoshikata Kida (Kyoto University)

Mackey's virtual group theory and orbit equivalence rigidity

13:00-13:30

Keita Kunikawa (Tohoku University)

A Bernstein type theorem for ancient solutions to the mean curvature flow

MinKu Lee (Ewha Womans University)

Optimal Portfolios for Pension Plans under Hybrid Stochastic and Local Volatility

13:40-14:10

Yosuke Morita (University of Tokyo)

A necessary condition for the existence of compact manifolds locally modelled on homogeneous spaces

Wei-Da Chen (National Central University)

Martin Boundary for Gaussian Diffusion Processes

14:20-14:50

Woocheol Choi (Seoul National University)

Qualitative properties of multi-bubble solutions for nonlinear elliptic equations involving critical exponents

Ji-Hun Yoon (Seoul National University)

Analytic Approximation Formula for Option Pricing with the Stochastic Elasticity of Variance

15:10-15:40

Taekyung Kim (Seoul National University)

A conjecture of Gross and Zagier for elliptic curves having rational 2-torsion points

Wei-Chan Chang (National Taiwan University)

Asymptotic Analysis of Steric Poisson-Nernst-Planck Model for Multi-species Ions

15:50-16:20

Wataru Kai (University of Tokyo)

On the Albanese cokernel of varieties over p-adic fields

Shoichi Hasegawa (Tohoku University)

A critical exponent for Hénon type equation on the hyperbolic space

16:30-17:00

Hung-Hsun Chen (National Chiao Tung University)

Nonemptiness problems of wang tiles with three colors

Xuexiu Zhong (Tsinghua University)

On some nonlinear elliptic PDEs with Sobolev-Hardy critical exponents and a Li-Lin open problem

17:10-17:40

Mojallal Seyed Ahmad (Sungkyunkwan University)

On the Laplacian energy of graphs

Zipeng Wang (Fudan University)

Composition operators on the Bergman space via quasiconformal mappings

Wednesday, 21 January

9:00-9:30

Min-Ho Song (Sungkyunkwan University)

Lie theory in the Riordan group

Kyung-Youn Kim (Seoul National University)

Global heat kernel estimates for symmetric Markov processes dominated by stable-like processes in exterior $C^{1,\eta}$ open sets

9:40-10:10

Maho Yokota (Kyoto University)

Noether probrem for some group

Guan Guohui (Tsinghua University)

Optimal reinsurance and investment strategies for insurer under interest rate and inflation risks

10:20-10:50

Arata Minamide (Kyoto University)

Indecomposability of Anabelian Profinite Groups

Jehan Oh (Seoul National University)

Global Calderón-Zygmund theory for asymptotically regular nonlinear elliptic and parabolic equations

11:00-11:30

Yu Yang (Kyoto University)

Fundamental Groups and Geometry of Coverings of Curves

Yu Wu (Fudan University)

Application of Bayesian networks in Schizophrenia

11:40-12:10

Takashi Komatsu (Tohoku University)

Asymptotic Analysis of Steric Poisson-Nernst-Planck Model for Multi-species Ions

Kuang-Hui Lin (National Chiao Tung University)

Global Dynamics for Two-species Competition in Patchy Environment

Thursday, 22 January

R202, 9:30-10:30

Prof. Yuji Odaka (Kyoto University)

Canonical Kahler metrics and Moduli of varieties

R202, 10:40-11:40

Prof. Pin Yu (TsingHua University)

Shock formation for three dimensional wave equations

13:00-13:30

Sho Hasui (Kyoto University)

On the classification of bundle-type quasitoric manifolds over a cube

Chao Yi (Fudan University)

On Supersonic Flow past an Infinite Delta Wing

13:40-14:10

Kim, Hyun Jin (Ewha Womans University)

p-ary complementary information set codes

Yi-Hsuan Lin (National Taiwan University)

Reconstruction of penetrable obstacles in the anisotropic acoustic scattering

14:20-14:50

Yuki Arano (University of Tokyo)

Unitary spherical representations of Drinfeld doubles

Kuan-Hsiang Wang (National Cheng Kung University)

Low Regularity Global Well-Posedness for the Quantum Zakharov System in 1D

15:10-15:40

Se-Jin Oh (Seoul National University)

Monoidal categorification of Cluster algebras

Yuexun Wang (Tsinghua University)

Formation of singularities to the EulerVPoisson Equations

15:50-16:20

Yoshiyasu Fukumoto (Kyoto University)

Maps preserving the K-area

Enlin Yang (Tsinghua University)

Logarithmic version of the Milnor formula and the characteristic cycle of a tamely ramified sheaf

16:30-17:00

Changwei Xiong (Tsinghua University)

Stability of capillary hypersurfaces in a Euclidean ball

Shih-Wei Chou (National Central University)

The generalized Glimm method to nonlinear hyperbolic balance laws