Program

Talks by professors take place in Room 110.
For parallel sessions, talks written in the first line take place in Room 110
and those written in the second line take place in Room 127.

Tuesday, 21 January

9:30–10:30

Jian Zhou (Tsinghua University)
Boson-fermion correspondence and Witten-Kontsevich tau-function

10:40–11:40

Takashi Sakajo (Kyoto University)
Mathematical theory of potential flows in multiply connected domains

13:40–14:10

Hansol Hong (Seoul National University)
Localized mirror functors and HMS for $\mathbb{P}^1_{a,b,c}$(HMS = Homological mirror symmetry)

Xumin Gu (Fudan University)
Partial Regularity of Solutions to the Four-Dimensional Navier-Stokes Equations

14:20–14:50

Maho Yokota (Kyoto University)
Noether problem for some easy groups

Jaehoon Kang (Seoul National University)
Tangential limits for harmonic functions with respect to $\phi(\Delta)$: stable and beyond

15:00–15:30

Tsung-Ju Lee (National Taiwan University)
Weil-Petersson metric on the moduli of Calabi-Yau varieties

Jung-Hyun Bae (Sungkyunkwan University)
Eigenvalue results for nonlinear maximal monotone operators

16:00–16:30

Yong Wei (Tsinghua University)
Sharp diameter estimates for compact manifold with boundary

Yuri Yatagawa (The University of Tokyo)
Two invariants of ramification

16:40–17:10

Zhi-You Chen (National Central University)
On the Uniqueness and Structure of Solutions to the System Arising from Chern-Simons Models

Hirokazu Shinjo (Tohoku University)
Coefficients of L-functions of certain type of curves

17:20–17:50

Kotaro Kawai (Tohoku University)
Deformations of associative submanifolds in nearly parallel G_2-manifolds

Seongan Lim (Ewha Woman's University)
On the Homomorphic Encryption NTRU

Wednesday, 22 January

9:30–10:30

Jungkai Chen (National Taiwan University)
Geography of varieties of general type

10:40–11:40

Quanshui Wu (Fudan University)
Poisson (co)homology and duality

13:40–14:10

Koichi Shimada (The University of Tokyo)
Group Actions on von Neumann Algebras

Kameng Nip (Tsinghua University)
Combinations of Shop Scheduling and the Shortest Path Problem

14:20–14:50

Ryunosuke Ozawa (Tohoku University)
Limit formulas for metric measure invariants and phase transition property

Sheng-Hua Chen (National Taiwan University)
Edge Roman Domination on Graphs

15:00–15:30

Jiyoung Han (Seoul National University)
Distribution of integral lattice points in an ellipsoid with a diophantine center

Myeongmin Kang (Seoul National University)
Inexact accelerated augmented Lagrangian method for linearly constrained ℓ_1-ℓ_2 minimization

16:00–16:30

Li Ming (Fudan University)
The interior estimate for convex solutions of 2-Hessian equations and a rigidity theorem

Yasuhiro Ishituka (Kyoto University)
Some geometric aspects of 2-descent of hyperelliptic Jacobians

16:40–17:10

Chong Tian (Fudan University)
Unstability of pseudoharmonic maps between pseudo-Hermitian manifolds

Kazuki Sato (Tohoku University)
The solubility of diagonal cubic equations

17:20–17:50

Jungchan Lee (Sungkyunkwan University)
Some variational problem on almost Hermitian structures

Chiu-Ju Lin (National Tsing Hua University)
Competition of phytoplankton species for light with wavelength

18:00–18:30

Chan Yong Kim (Sungkyunkwan University)
Bertrand curves in $\mathbb{R}^3$ and $S^3(1)$

Liping Li (Fudan University)
Regular subspaces of Dirichlet forms

Thursday, 23 January

9:00–9:30

Yong Hu (Fudan University)
Inequality of Noether type for smooth minimal 3-folds of general type

Kota Uriya (Tohoku University)
Asymptotic behavior of a solution to a system of quadratic nonlinear Schrödinger equations in two dimensions

9:40–10:10

Jian Xiao (Fudan University)
Weak transcendental holomorphic Morse inequalities on compact Kähler manifolds

Xu Qing (Fudan University)
Backward Stochastic Schrödinger Equations and related topics

10:20–10:50

Yen-Wen Fan (National Taiwan University)
An Optimal Gap Theorem in a Complete Strictly Pseudoconvex CR $(2n+1)$*-Manifold*

Makoto Fujiwara (Tohoku University)
Uniform and constructive provability in reverse mathematics

11:00–11:30

Masatoshi Kitagawa (The University of Tokyo)
Stable branching laws for spherical varieties

Jinyeong Park (Seoul National University)
Practical synchronization of Kuramoto system with an intrinsic dynamics

11:40–12:10

Yuichiro Tanaka (The University of Tokyo)
Visible actions on generalized flag varieties and a generalization of the Cartan decomposition

Eun-Kyung Kim (Ewha Woman's University)
Relations between Multilinear Maps and Fully Homomorphic Encryption Scheme

Friday, 24 January

9:30–10:30

Shanjian Tang (Fudan University)
Linear-Quadratic Optimal Control: from deterministic to stochastic

10:40–11:40

Seok-jin Kang (Seoul National University)
Cyclotomic categorification theorem and 2*-representation theory*

13:40–14:10

Yuuya Takayama (Research Institute for Mathematical Sciences)
Introduction to bow varieties

Ye Li (Tsinghua University)
A class of nonconforming quadrilateral finite elements for incompressible flow

14:20–14:50

Yusuke Nakamura (The University of Tokyo)
Minimal model program and singularity theory

Jihoon Ok (Seoul National University)
$L^{p(\cdot)}$*-regularity theory for the gradient of weak solutions for elliptic and parabolic equations in divergence form*

15:00–15:30

Yuhei Suzuki (The University of Tokyo)

Amenable minimal Cantor systems of free groups arising from diagonal actions

Jinsu Kim (Seoul National University)

Efficient Fully Homomorphic Encryption

16:00–16:30

Bo Li (Tsinghua University)

Infinitely many solutions for the prescribed curvature problem of polyharmonic operator

Tse-Chung Yang (National Taiwan University)

Monomial, Gorenstein, and Bass orders

16:40–17:10

Sz-Sheng Wang (National Taiwan University)

Calabi-Yau threefolds with small contractions

Nobuaki Naganuma (Tohoku University)

Asymptotic error distributions of the Crank-Nicholson scheme for SDEs driven by fractional Brownian motion

17:20–17:50

Qizhi Wang (Fudan University)

Conformal Positive Mass Theorem for Asymptotically Flat Manifolds with Inner Boundary

Cheng-Fang Su (National Central University)

The existence of solutions of 2-dimensional incompressible Navier-Stokes equations on a moving domain in an optimal Sobolev space