Harmonic Analysis and its Applications in Tokyo 2017

August 2 (Wed) – 4 (Fri), 2017

Nihon University

College of Economics

Building No.7
Auditorium on the second and third floor

1-3-2 Misaki-cho, Chiyoda-ku, Tokyo, 102-8360, Japan

Organizers

Eiichi Nakai (Ibaraki University) – Chair
Katsuo Matsuoka (Nihon University) – Vice Chair
Akihiko Miyachi (Tokyo Woman's Christian University)
Yasuo Komori-Furuya (Tokai University)
Yoshihiro Sawano (Tokyo Metropolitan University)

Chairmen

August 2

Morning

Dunyan Yan (University of Chinese Academy of Sciences, China)

Yutaka Terasawa (Nagoya University, Japan)

Afternoon

Dachun Yang (Beijing Normal University, China)

Naohito Tomita (Osaka University, Japan)

August 3

Morning

Akihiko Miyachi (Tokyo Woman's Christian University, Japan)

Yoshihiro Sawano (Tokyo Metropolitan University, Japan)

Afternoon

Yasuo Komori-Furuya (Tokai University, Japan)

Mitsuru Sugimoto (Nagoya University, Japan)

August 4

Morning

Yohei Tsutsui (Shinshu University, Japan)

Toshio Horiuchi (Ibaraki University, Japan)

Afternoon

August 2 (Wednesday)

09:20–09:55 Registration

09:55–10:00 Opening

10:00–10:30 Dachun Yang (Beijing Normal University, China)
Ball average characterizations of function spaces

10:35–11:05 Dongyong Yang (Xiamen University, China)
Boundedness and compactness of Riesz transform commutator in the Bessel setting

Coffee break

11:25–11:55 Gaku Sadasue (Osaka Kyoiku University, Japan)
Fractional integrals on martingale spaces

12:00–12:30 Takahiro Noi (Tokyo Metropolitan University, Japan)
A characterization of generalized Besov Morrey spaces by differences

Lunch break

14:00–14:30 Yoshihiro Sawano (Tokyo Metropolitan University, Japan)
An observation of the atomic decomposition of Hardy spaces with variable exponent

14:35–15:05 Ciqiang Zhuo (Hunan Normal University, China)
Variable weak Hardy spaces and their applications

15:10–15:40 Yong Jiao (Central South University, China)
Variable Hardy-Lorentz spaces $H^{p(\cdot),q}$

Coffee break

16:00–16:30 Sibei Yang (Lanzhou University, China)
The L^p Robin problem of Laplace equations in Lipschitz domains

16:35–17:05 Yutaka Terasawa (Nagoya University, Japan)
Finite energy for the Navier-Stokes equations and Liouville-type theorems

17:10–17:40 Tsuyoshi Yoneda (The University of Tokyo, Japan)
A weak type of norm inflation for solutions of the incompressible 2D Euler equations near the critical Besov space $B_{2,1}^2$

August 3 (Thursday)

09:30–10:00 Wen Yuan (Beijing Normal University, China)
The Gaussian capacities

10:05–10:35 Liguang Liu (Renmin University of China, China)
Restricting Riesz-Morrey-Hardy potentials

Coffee break

10:55–11:25 Haibo Lin (China Agricultural University, China)
Weighted Morrey spaces on non-homogeneous metric measure spaces

11:30–12:00 Shohei Nakamura (Tokyo Metropolitan University, Japan)
Recent developments of the weight theory on Morrey spaces

12:05–12:35 Denny Ivanal Hakim (Tokyo Metropolitan University, Japan)
Complex interpolation of predual of local Morrey-type spaces

12:35–12:50 Conference photo

Lunch break

14:10–14:40 Hitoshi Tanaka (Tsukuba University of Technology, Japan)
The Carleson type embedding inequality for dyadic rectangles

14:45–15:15 Feng Liu (Shandong University of Science and Technology, China)
Regularity properties of the strong maximal operators associated with rectangles

15:15–15:45 Poster Session

Coffee break

15:50–16:20 Naohito Tomita (Osaka University, Japan)
Bilinear pseudo-differential operators of type 1,1 and their application to the Kato-Ponce inequality

16:25–16:55 Masaharu Kobayashi (Hokkaido University, Japan)
Representation of Airy evolution operator via short-time Fourier transform and its application

17:00–17:30 Yohei Tsutsui (Shinshu University, Japan)
Asymptotic stability of the stationary Navier-Stokes flows in Besov spaces

Banquet

August 4 (Friday)

09:30–10:00 Mitsuru Sugimoto (Nagoya University, Japan)
Remarks on nonlinear operations on modulation spaces

10:05–10:35 Jun Cao (Zhejiang University of Technology, China)
Sharp bilinear decomposition of the product of Hardy space and its dual

Coffee break

10:55–11:25 Hidemitsu Wadade (Kanazawa University, Japan)
On a maximizing problem associated with the Sobolev type embedding in the whole space with lower order terms

11:30–12:00 Dunyan Yan (University of Chinese Academy of Sciences, China)
On Selberg's integral formula

12:05–12:35 Shinya Moritoh (Nara Women's University, Japan)
Some variations on wavelet reconstruction formulae

Lunch break

14:00–17:00 Free discussion

Poster Session

Display Time: All days
Standing Time: August 3, 15:15–15:45

- Ryutaro Arai (Ibaraki University, Japan)
  Commutators of generalized fractional integral operators on generalized Morrey spaces

- Keisuke Asami (Tokyo Metropolitan University, Japan)
  Non-smooth decomposition of homogeneous Triebel-Lizorkin spaces with applications to the Marcinkiewicz integral

- Xiaojing Liu (Ibaraki University, Japan)
  Improved Kato's inequalities for the quasilinear elliptic operator and relating topics

- Toru Nogayama (Tokyo Metropolitan University, Japan)
  Compactness of the commutator generated by Lipschitz functions and fractional itegral operators

- Kazuya Ootsubo (Bon Agency Co., Ltd., Ibaraki University, Japan)
  On Kuratsubo phenomenon

- Yoshihiro Sawano (Tokyo Metropolitan University, Japan)
  A non-dense subspace of $\mathcal{M}_q^p$