

Harmonic Analysis and its Applications in Tokyo 2015

November 27 (Fri) – 29 (Sun), 2015

Waseda University
Waseda Campus
International Conference Center
Tokyo, Japan

Organizers

Eiichi Nakai (Ibaraki University) – Chair
Takuya Sobukawa (Waseda University) – Vice Chair
Akihiko Miyachi (Tokyo Woman's Christian University)
Yasuo Komori-Furuya (Tokai University)
Yoshihiro Sawano (Tokyo Metropolitan University)
Yohei Tsutsui (Shinshu University)

Chairmen

November 27

Morning

Eiichi Nakai (Ibaraki University, Japan)

Afternoon

Wen Yuan (Beijing Normal University, China)

Mitsuru Sugimoto (Nagoya University, Japan)

November 28

Morning

Yasuo Komori-Furuya (Tokai University, Japan)

Afternoon

Toshio Horiuchi (Ibaraki University, Japan)

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

November 29

Morning

Dachun Yang (Beijing Normal University, China)

Afternoon

Masami Okada (Tokyo Metropolitan University, Japan)

November 27 (Friday)

09:00–09:40 Registration

09:40–09:50 Opening

09:50–10:20 Dachun Yang (Beijing Normal University, China)
Sobolev spaces on metric measure spaces

10:30–11:00 Takuya Sobukawa (Waseda University, Japan)
 B_w^u -function spaces and their interpolation

11:10–11:40 Jingshi Xu (Hainan Normal University, China)
The B_w^u type Triebel-Lizorkin spaces with variable smoothness and integrability

13:20–13:50 Lin Tang (Peking University, China)
Boundary regularity on the parabolic Monge-Ampère equation

14:00–14:30 Tsuyoshi Yoneda (Tokyo Institute of Technology, Japan)
A blowup criteria along maximum points of the 3D-Navier-Stokes flow in terms of stationary Euler flows and function spaces with variable growth condition

14:40–15:10 Masao Yamazaki (Waseda University, Japan)
The Navier-Stokes equation on the whole plane with time-dependent external forces

15:20–15:50 Hideo Kozono (Waseda University, Japan)
Hadamard variational formula for eigenvalues of the Stokes equations and its application

16:00–18:00 Free discussion

November 28 (Saturday)

- 09:00–09:30 Wen Yuan (Beijing Normal University, China)
Interpolations of Morrey spaces and related smoothness
- 09:40–10:10 Yoshihiro Sawano (Tokyo Metropolitan University, Japan)
Complex interpolation of Morrey spaces – second method
- 10:20–10:50 Kwok-Pun Ho (The Hong Kong Institute of Education, China)
Fourier integrals and Sobolev embedding on rearrangement-invariant quasi-Banach function spaces
- 11:00–11:30 Mitsuo Izuki (Okayama University, Japan)
Characterization of BMO via Banach function spaces
- 11:30–11:50 Conference photo
- 13:20–13:50 Masaharu Kobayashi (Hokkaido University, Japan)
Inclusion relations between L^p -Sobolev and Wiener amalgam spaces
- 14:00–14:30 Hidemitsu Wadade (Kanazawa University, Japan)
Scaling invariant Hardy inequalities of multiple logarithmic type on the whole space
- 14:40–15:10 Yohei Tsutsui (Shinshu University, Japan)
Div - curl estimates with critical power weights
- 15:10–15:40 Poster Session
- 15:40–16:10 Jun Cao (Zhejiang University of Technology, China)
Decompositions of the products of Hardy and Lipschitz or BMO spaces through wavelets
- 16:20–16:50 Haibo Lin (China Agricultural University, China)
Boundedness of commutators on Hardy spaces over metric measure spaces of non-homogeneous type
- 17:00–17:30 Yuan Zhou (Beihang University, China)
The Q -Extension domains
- 17:50– Banquet

November 29 (Sunday)

- 09:00–09:30 Zunwei Fu (Linyi University, China)
A note on Nakai's generalized Morrey spaces and applications
- 09:40–10:10 Sibeï Yang (Lanzhou University, China)
Hardy type spaces associated with Schrödinger operators on domains and applications
- 10:20–10:50 Naohito Tomita (Osaka University, Japan)
On the boundedness of multilinear Fourier multiplier operators
- 11:00–11:30 Yoshihiro Mizuta (Hiroshima Institute of Technology, Japan)
Sobolev's inequality for Riesz potentials of functions in central Herz-Morrey-Orlicz spaces on the unit ball
- 12:40–13:10 Hitoshi Tanaka (The University of Tokyo, Japan)
General maximal operators and the reverse Hölder classes
- 13:20–13:50 Gaku Sadasue (Osaka Kyoiku University, Japan)
Martingale Morrey-Campanato spaces
- 14:00–14:30 Mitsuru Sugimoto (Nagoya University, Japan)
On a condition for the global L^p -boundedness of Fourier integral operators
- 14:40–15:10 Yasuo Komori-Furuya (Tokai University, Japan)
An inequality which interpolates Adams and Spanne
- 15:30–18:00 Free discussion

Poster Session

Display Time: All days

Standing Time: November 28, 15:10–15:40

- Jayson Mesitas B. Cunanan (Shinshu University, Japan)
On L^p -boundedness of pseudo-differential operators of Sjöstrand's class
- Denny Ivanal Hakim (Tokyo Metropolitan University, Japan)
Vector-valued inequalities for the Hardy-Littlewood maximal operator on generalized Orlicz-Morrey spaces
- Xiaojing Liu (Ibaraki University, Japan)
Remarks on the strong maximum principle involving p -Laplacian
- Shohei Nakamura (Tokyo Metropolitan University, Japan)
Embedding properties for weighted Morrey spaces
- Takahiro Noi (Tokyo Metropolitan University, Japan)
Weighted variable modulation spaces
- Ryo Takada (Tohoku University, Japan)
Dispersive estimates for the stably stratified Boussinesq equations