

# Real Analysis

March 17th (Mon) Conference Room III

## 9:00–12:05

- 06-01-0014  
1 Yukino Tomizawa (Chuo Univ.)# Non-Lipschitzian mappings with respect to the Bregman distance . . . . 15
- 06-01-0027  
2 Koji Aoyama (Chiba Univ.)# Approximations to solutions of the variational inequality problem for inverse-strongly-monotone mappings . . . . . 15
- 06-01-0017  
3 Ryotaro Tanaka (Niigata Univ.)# A geometric approach to two-dimensional Tingley's problem . . . . . 15
- 06-01-0015  
4 Kenichi Mitani (Okayama Pref. Univ.)# James constant of two dimensional Lorentz sequence space and its dual  
Kichi-Suke Saito (Niigata Univ.) . . . . . 15  
Ryotaro Tanaka (Niigata Univ.)
- 06-01-0026  
5 Hiroyasu Mizuguchi (Niigata Univ.)# Several geometric constants and the extreme points of the unit ball . . . . . 15
- 06-01-0037  
6 Toshikazu Watanabe (Niigata Univ.)# Fixed point theorem for set-valued Kannan mappings with a vector-valued distance . . . . . 15  
Masashi Toyoda (Tamagawa Univ.)
- 06-01-0029  
7 Toshiharu Ikeda (Kyushu Inst. of Tech.)# On von Neumann–Jordan and James constants for absolute norms on  $\mathbb{R}^2$  . . . . . 15  
Mikio Kato (Shinshu Univ.)
- 06-01-0024  
8 Sachiko Atsushiba (Univ. of Yamanashi)# Strong convergence theorems for nonlinear mappings by iterative schemes . . . . . 15
- 06-01-0003  
9 M. Ali Khan (Johns Hopkins Univ.)# Weak sequential convergence in  $L^1(\mu, X)$  and an exact version of Fatou's lemma . . . . . 15  
Nobusumi Sagara (Hosei Univ.)
- 06-01-0035  
10 Yoichi Miyazaki (Nihon Univ.)\* Introduction to complex interpolation between Sobolev spaces . . . . . 15
- 06-01-0034  
11 Yōhei Yamasaki# The commutation of limit and singular integral, avoiding the dominating functions. . . . . 15

## 14:15–16:25

- 06-01-0009  
12 Toshiharu Kawasaki (Nihon Univ.)# Criteria for the C-integral . . . . . 15  
Shizu Nakanishi (Osaka Pref. Univ.)  
Ichiro Suzuki (日本文化大)
- 06-01-0025  
13 Takanori Yamamoto (Hokkai-Gakuen Univ.)\* Majorization of singular integral operators with Cauchy kernel on  $L^2$  . . . . . 15
- 06-01-0018  
14 Aoi Honda (Kyushu Inst. of Tech.)\* Linear quasi-metric of the Shepp space . . . . . 15  
Yoshiaki Okazaki (Kyushu Inst. of Tech.)  
Hiroshi Sato (Kyushu Univ.\*)
- 06-01-0004  
15 Jayson Mesitas Cunanan (Nagoya Univ.)# Inclusion relations between  $L^p$ -Sobolev and Wiener amalgam spaces . . . . . 15
- 06-01-0010  
16 Gaku Sadasue (Osaka Kyoiku Univ.)# A characterization of BLO martingales . . . . . 15  
Eiichi Nakai (Ibaraki Univ.)
- 06-01-0012  
17 Hitoshi Tanaka (Univ. of Tokyo)# The Fatou property of block spaces . . . . . 15  
Yoshihiro Sawano (Tokyo Metro. Univ.)

- 06-01-0002  
18 Masami Okada (Tokyo Metro. Univ.)\* Toward two-dimensional approximate sampling theorem —scattered data ..... 15
- 06-01-0019  
19 Hiroki Saito (Tokyo Metro. Univ.)# Boundedness of the Takeya maximal operators on the variable Lebesgue spaces ..... 15  
Hitoshi Tanaka (Univ. of Tokyo)

**16:45–17:45 Talk invited by Real Analysis Section**

- 06-02-0002  
Mitsuo Izuki (Tokyo Denki Univ.)# A real analytic study of various function spaces with variable exponent

## March 18th (Tue) Conference Room III

**9:00–12:20**

- 06-01-0036  
20 Yusuke Murase (Meijo Univ.)# Existence of solutions for variational and quasi-variational inequalities  
Masahiro Kubo (Nagoya Inst. of Tech.) generated by quasi-subdifferential operators ..... 15
- 06-01-0011  
21 Shun Uchida (Waseda Univ.)# The solvability of double-diffusive convection system in general domains  
Mitsuharu Ôtani (Waseda Univ.) ..... 15
- 06-01-0007  
22 Yutaka Tsuzuki (Tokyo Univ. of Sci.)# Solvability of  $p$ -Laplace heat equations with constraints coupled with  
Takeshi Fukao (Kyoto Univ. of Edu.) Navier–Stokes equations in 3D domains ..... 15  
Tomomi Yokota (Tokyo Univ. of Sci.)
- 06-01-0032  
23 Kentarou Yoshii (Tokyo Univ. of Sci.)# Non-normal form of abstract evolution equations of hyperbolic type  
Noboru Okazawa (Tokyo Univ. of Sci.) ..... 15
- 06-01-0028  
24 Tetsuya Koyama # On a regularity theorem for non-smooth domains ..... 15  
(Hiroshima Inst. of Tech.)
- 06-01-0031  
25 Takayoshi Ogawa (Tohoku Univ.)\* On optimality of end-point  $L^1$  maximal regularity for the Cauchy problem of the heat equation ..... 15  
Senjo Shimizu (Shizuoka Univ.)
- 06-01-0008  
26 Ken Shirakawa (Chiba Univ.)# Mathematical models of grain boundary motions with solidifications  
Hiroshi Watanabe (Salesian Polytech.) ..... 15  
Noriaki Yamazaki (Kanagawa Univ.)
- 06-01-0005  
27 Noriaki Yamazaki (Kanagawa Univ.)# Non-autonomous phase-field models of grain boundary motion with constraint ..... 15
- 06-01-0021  
28 Hiroki Ohwa (Niigata Univ.)\* On the wave-front tracking algorithm for  $n \times n$  hyperbolic systems of conservation laws ..... 15
- 06-01-0013  
29 Dai Noboriguchi (Waseda Univ.)# Uniqueness for the initial-boundary value problem for conservation laws  
Kazuo Kobayashi (Waseda Univ.) with a multiplicative noise ..... 15
- 06-01-0033  
30 Yôhei Yamasaki # Inverse maps and implicit functions without differentiation ..... 15
- 06-01-0030  
31 Shigehiro Sakata (Tokyo Metro. Univ.)# Uniqueness of a maximizer of Riesz potential and the heart of a body ..... 15

**14:15–15:55**

- 06-01-0023  
32 Takeshi Fukao (Kyoto Univ. of Edu.)# Allen–Cahn equation with dynamic boundary conditions and mass constraints  
Pierluigi Colli (Pavia Univ.) ..... 15
- 06-01-0020  
33 Hiroshi Watanabe (Salesian Polytech.)# Strongly degenerate parabolic equations with diffusion terms depending on the spatial variable ..... 15
- 06-01-0016  
34 Yoji Yamashita (Tokyo Univ. of Sci.)# Existence of solutions to some degenerate parabolic equation associated with the  $p$ -Laplacian in the critical case ..... 15  
Tomomi Yokota (Tokyo Univ. of Sci.)

06-01-0001

- 35 Toyohiko Aiki (Japan Women's Univ.)<sup>#</sup> Smoluchowski population balance equation modified for hot colloids  
 Oleh Krehel (TU Eindhoven) ..... 15  
 Adrian Muntean (TU Eindhoven)

06-01-0006

- 36 Kentarou Fujie (Tokyo Univ. of Sci.)<sup>#</sup> Existence and uniqueness of local-in-time classical solutions to a mathematical model on tumor invasion phenomenon ..... 15  
 Akio Ito (Kinki Univ.)  
 Tomomi Yokota (Tokyo Univ. of Sci.)

06-01-0022

- 37 Risei Kano (Kochi Univ.)<sup>#</sup> The solvability of the evolution problems for the tumor invasion models ..... 15

**16:15–17:15 Talk invited by Real Analysis Section**

06-02-0001

- Kota Kumazaki \* A mathematical model for concrete carbonation phenomenon  
 (Tomakomai Nat. Coll. of Tech.)