

Real Analysis

March 21st (Sat) Conference Room IX

9:30–12:00

- 06-01-0031
1 Noriaki Yoshino (Tokyo Univ. of Sci.)
Tomomi Yokota (Tokyo Univ. of Sci.) An operator theoretic approach to a quasi-linear degenerate parabolic-elliptic Keller–Segel system 15
- 06-01-0009
2 Kentarou Fujie (Tokyo Univ. of Sci.) Global existence and asymptotic behavior in a chemotaxis-growth model for tumor invasion 15
- 06-01-0002
3 Yutaka Tsuzuki (Tokyo Univ. of Sci.) Solvability of heat equations with hysteresis coupled with Navier–Stokes equations in 2D and 3D domains 15
- 06-01-0029
4 Kota Kumazaki
(Tomakomai Nat. Coll. of Tech.) On a system of parabolic type equations with a hysteresis operator 15
- 06-01-0008
5 Akio Ito (Kinki Univ.) Asymptotic behavior of global-in-time solutions to 1D tumor invasion model of Chaplain–Anderson type with quasi-variational structure . . . 15
- 06-01-0019
6 Hirokazu Komatsu (Kinki Univ.)
Akio Ito (Kinki Univ.)
Hiroyuki Nakajima (Kinki Univ.) Non-negativity and boundedness of solutions to non-autonomous ordinary differential equations 15
- 06-01-0015
7 Akio Ito (Kinki Univ.)
Atsushi Kadoya
(Hiroshima Shudo Univ.)
Kazuhiko Yamamoto (Kinki Univ.) Numerical simulation of the systems of ordinary differential equations arising from Cardiac hypertrophy-related factor network 15
- 06-01-0027
8 Keisuke Takasao (Kanagawa Univ.)* Existence of mean curvature flow via Allen–Cahn equation with constraints 15
- 06-01-0001
9 Noriaki Yamazaki (Kanagawa Univ.)
Takeshi Fukao (Kyoto Univ. of Edu.)
M. Hassan Farshbaf-Shaker (WIAS) Numerical simulations of Allen–Cahn equation with constraints via Lagrange multiplier 15

14:15–16:30

- 06-01-0032
10 Shoji Shimizu (Waseda Univ.)
Mitsuharu Ôtani (Waseda Univ.) Solvability of complex Ginzburg–Landau equation in a general domain 15
- 06-01-0026
11 Shun Uchida (Waseda Univ.)
Mitsuharu Ôtani (Waseda Univ.) Exponential attractor of some autonomous double-diffusive convection system 15
- 06-01-0017
12 Hiroshi Watanabe (Salesian Polytech.) Solvability of strongly degenerate parabolic equations with variable coefficients 15
- 06-01-0020
13 Takeshi Fukao (Kyoto Univ. of Edu.)^b
Pierluigi Colli (Pavia Univ.) Some equations and dynamic boundary conditions of Cahn–Hilliard type with singular potentials 15
- 06-01-0025
14 Risei Kano (Kochi Univ.)
Takeshi Fukao (Kyoto Univ. of Edu.) The existence of solutions for the model of perfect plasticity with time dependent 15
- 06-01-0036
15 Yusuke Murase (Meijo Univ.)
Masahiro Kubo (Nagoya Inst. of Tech.) Solvability of quasi-variational inequalities generated by a quasi-subdifferential operator 15
- 06-01-0014
16 Ken Shirakawa (Chiba Univ.)
Hiroshi Watanabe (Salesian Polytech.) Phase-field models of grain boundary motions under non-isothermal settings 15

06-01-0016	17	<u>Toyohiko Aiki</u> (Japan Women's Univ.) Oleh Krehel (TU Eindhoven) Adrian Muntean (TU Eindhoven)	Homogenization for differential equations describing change of mass of colloids	15
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16:40–17:40 Talk Invited by Real Analysis Section

06-02-0002		Koichi Osaki (Kwansei Gakuin Univ.)	Nonlinear analysis for a chemotaxis-growth system	
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March 22nd (Sun) Conference Room IX

9:30–12:00

06-01-0021	18	<u>Yōhei Yamasaki</u> (Yamato Univ.)*	The limit and “singular integrals of 1 variables”	15
06-01-0003	19	<u>Yoshifumi Ito</u> (Univ. of Tokushima*)	Fourier transformation of distributions in \mathcal{D}'	15
06-01-0004	20	<u>Yoshifumi Ito</u> (Univ. of Tokushima*)	Fourier transformation of L^2_{loc} -functions	15
06-01-0018	21	<u>Youhei Tsutsui</u> (Univ. of Tokyo)	Div-curl lemma with critical power weights in dimension three	15
06-01-0023	22	<u>Shinya Moritoh</u> (Nara Women's Univ.)	Ostrowski's inequalities and some examples	10
06-01-0022	23	<u>Hironari Miyoshi</u> (Waseda Univ.) Masayoshi Tsutsumi (Waseda Univ.)	Lifting problems for a hyperbolic surface in Sobolev spaces	10
06-01-0024	24	<u>Takuya Sobukawa</u> (Waseda Univ.) Eiichi Nakai (Ibaraki Univ.)	Generalization of local Morrey–Campanato type spaces and their interpolation	15
06-01-0028	25	<u>Yoshiaki Okazaki</u> (Kyushu Inst. of Tech.)	A linear quasi-metric structure of the function space $M_p(\mu)$	15
06-01-0034	26	<u>Yoshihiro Sawano</u> (Tokyo Metro. Univ.) ^b	Morrey-type spaces on Gauss measure spaces and boundedness of singular integrals	15
06-01-0035	27	<u>Yoshihiro Sawano</u> (Tokyo Metro. Univ.) ^b	Weak type inequalities for some integral operators on generalized non-homogeneous Morrey spaces	15

13:15–14:15 Talk Invited by Real Analysis Section

06-02-0001		Neal Bez (Saitama Univ.)	Some inequalities from geometric and harmonic analysis via induction-on-scales	
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March 23rd (Mon) Conference Room IX

9:30–12:00

06-01-0005	28	<u>Ryotaro Tanaka</u> (Niigata Univ.) Kichi-Suke Saito (Niigata Univ.)	Recent progress on the duality of James constant	15
06-01-0006	29	<u>Kichi-Suke Saito</u> (Niigata Univ.) Ryotaro Tanaka (Niigata Univ.)	New geometric properties of Banach spaces	15
06-01-0012	30	<u>Sachiko Atsushiba</u> (Univ. of Yamanashi)	Convergence theorems for some classes of nonlinear mappings	15
06-01-0013	31	<u>Hiroyasu Mizuguchi</u> (Niigata Univ.)	Measurements of differences between orthogonalities in normed spaces	15
06-01-0030	32	<u>Koji Aoyama</u> (Chiba Univ.)	Viscosity approximation methods with a sequence of contractions	15
06-01-0007	33	<u>Toshiharu Kawasaki</u> (Nihon Univ.)	Criteria for the improper Lebesgue integral	15

- 06-01-0010
 34 Nobusumi Sagara (Hosei Univ.) An Exact Fatou Lemma for Gelfand Integrals: Equivalence of the
 Mohammed Ali Khan Saturation and Fatou Properties 15
 (Johns Hopkins Univ.)
 Suzuki Takashi (Meiji Gakuin Univ.)
- 06-01-0011
 35 Kiyohisa Tokunaga Double integration by parts based on a triangular element method ... 15
 (Yamaguchi Univ./Fukuoka Inst. of Tech.)
- 06-01-0033
 36 Toshikazu Watanabe (Nihon Univ.) Pseudometric generating property and continuity of non-additive mea-
 Hiroki Saito (Saitama Univ.) sure taking value in an ordered vector space 15