函 数 方 程 式 論

3月20日(水)

9:30〜12:00

1　谷 川 智 幸 (熊 本 大 教 育)*　進みと遅れの変数をもつ半分線形微分方程式の正則変動関数解について ····· 15

Tomoyuki Tanigawa (Kumamoto Univ.)*　Regularly varying solutions of half-linear differential equations with retarded and advanced arguments

2　川 﨑 敏 治 (日　大　工)♯　On the Cauchy problem for an ordinary differential equation by using a fixed point theorem ····· 15
豊 田 昌 史 (玉 川 大 工)

Toshiharu Kawasaki (Nihon Univ.)♯
Masashi Toyoda (Tamagawa Univ.)　On the Cauchy problem for an ordinary differential equation by using a fixed point theorem

3　塚 本 一 郎 (東 洋 大 理 工)*　$x'' = t^{\alpha\lambda-2}x^{1+\alpha}$ $(\alpha = \lambda_0,\ \lambda > 0)$ の正値解の漸近的行動について ····· 12

Ichiro Tsukamoto (Toyo Univ.)*　On asymptotic behaviour of positive solutions of $x'' = t^{\alpha\lambda-2}x^{1+\alpha}$ $(\alpha = \lambda_0,\ \lambda > 0)$

4　齋 藤 誠 慈 (同志社大理工)♯　逆定理の応用による差分方程式・常微分方程式の大域的一様漸近安定性 ····· 15

Seiji Saito (Doshisha Univ.)♯　Globally uniformly asymptotic stability of solutions for difference equations

5　西 本 勝 之 (デカルト出版)*　Solutions to the homogeneous Bessel equation by means of N-fractional calculus operator ····· 15

Katsuyuki Nishimoto (Descartes Press Co.)*　Solutions to the homogeneous Bessel equation by means of N-fractional calculus operator

6　西 本 勝 之 (デカルト出版)*　The solutions to the radial Schrödinger equation of the hydrogen atom by means of N-fractional calculus operator ····· 15

Katsuyuki Nishimoto (Descartes Press Co.)*　The solutions to the radial Schrödinger equation of the hydrogen atom by means of N-fractional calculus operator

7　佐 々 木 隆 (京 大 基 礎 研)♯　Global solutions of certain second order differential equations with a high degree of apparent singularity ····· 10
竹 村 剛 一 (中 大 理 工)

Ryu Sasaki (Kyoto Univ.)♯
Kouichi Takemura (Chuo Univ.)　Global solutions of certain second order differential equations with a high degree of apparent singularity

8　高 山 信 毅 ♯　*A*-超幾何方程式系の Pfaffian 系 ····· 15
(神戸大理・JST CREST)
日 比 孝 之
(阪大情報・JST CREST)
西 山 絢 太
(阪大情報・JST CREST)

Nobuki Takayama ♯
(Kobe Univ./JST CREST)
Takayuki Hibi
(Osaka Univ./JST CREST)
Kenta Nishiyama
(Osaka Univ./JST CREST)　Pfaffian systems of *A*-hypergeometric sysytems

9　中 山 洋 将 ♯　Lauricella 超幾何関数の満たす微分方程式系のグレブナー基底とその応用 ····· 15
(神戸大理・JST CREST)

2012/12/25 04:35 作成

Hiromasa Nakayama ♯ (Kobe Univ. / JST CREST) Gröbner basis for differential equations of the Lauricella hypergeometric functions

14:15〜16:30

10 伊藤秀一 (金沢大理) ♯ Superintegrability of vector fields and their normal forms near equilibrium points ····· 15

Hidekazu Ito (Kanazawa Univ.) ♯ Superintegrability of vector fields and their normal forms near equilibrium points

11 松岡千博 (愛媛大理) ♯ Hénon 写像に付随する差分方程式の Borel–Laplace 変換によって生成される大域解 ····· 15
平出耕一 (愛媛大理)

Chihiro Matsuoka (Ehime Univ.) ♯ Global solutions created by Borel–Laplace transform of difference equations associated with Hénon maps
Koichi Hiraide (Ehime Univ.)

12 日比野正樹 (名城大理工) * 或る 1 階線型偏微分方程式に対する発散冪級数解の総和可能性について ····· 15

Masaki Hibino (Meijo Univ.) * On the summability of divergent power series solutions for certain 1st order linear PDEs

13 新島靖章 (千葉大理) ♯ On the prolongation of 2-bounded holomorphic solutions to the first order involutive system ····· 10

Yasuaki Niijima (Chiba Univ.) ♯ On the prolongation of 2-bounded holomorphic solutions to the first order involutive system

14 山根英司 (関西学院大理工) ♯ Long-time asymptotics for the defocusing integrable discrete nonlinear Schrödinger equation ····· 15

Hideshi Yamane ♯ (Kwansei Gakuin Univ.) Long-time asymptotics for the defocusing integrable discrete nonlinear Schrödinger equation

15 水谷治哉 (学習院大理) ♯ Remarks on Strichartz estimates for Schrödinger equations with potentials superquadratic at infinity ····· 15

Haruya Mizutani (Gakushuin Univ.) ♯ Remarks on Strichartz estimates for Schrödinger equations with potentials superquadratic at infinity

16 柴田徹太郎 (広島大工) * Inverse bifurcation problems for diffusive logistic equation of population dynamics ····· 15

Tetsutaro Shibata (Hiroshima Univ.) * Inverse bifurcation problems for diffusive logistic equation of population dynamics

17 上村豊 (東京海洋大海洋) ♯ 移流拡散の逆解析 ····· 15

Yutaka Kamimura ♯ (Tokyo Univ. of Marine Sci. and Tech.) An inverse analysis of advection-diffusion

16:45〜17:45 特別講演

山岡直人 (阪府大工) ♯ 半分線形微分方程式の振動定数とその応用

Naoto Yamaoka (Osaka Pref. Univ.) ♯ Oscillation constant for the halfly linear oridinary differential equations and its applications

3月21日(木)

9:30〜12:00

18 田中敏 (岡山理大理) ♯ Exact multiplicity of positive solutions for a class of two-point boundary value problems with one-dimensional p-Laplacian ····· 15

13:30〜14:30　特別講演

3月22日(金)

9:30〜12:00

28　相田千尋 (明大先端数理)♯　無限遠からの拡散誘導分岐 …… 15
Chao-Nien Chen (Nat. Changhua Univ. of Edu.)
二宮広和 (明大先端数理)
Chihiro Aida (Meiji Univ.)♯　Diffusion-induced bifurcation from infinity
Chao-Nien Chen (Nat. Changhua Univ. of Edu.)
Hirokazu Ninomiya (Meiji Univ.)

29　兼子裕大 (早大理工)♯　数理生態学モデルの自由境界問題に現れる Spreading と Vanishing …… 15
山田義雄 (早大理工)
大枝和浩 (早大理工)
Yuki Kaneko (Waseda Univ.)♯　Spreading and vanishing for free boundary problems in an ecological model
Yoshio Yamada (Waseda Univ.)
Kazuhiro Oeda (Waseda Univ.)

30　大河内広子 (東京薬大)♯　Conditions for Turing's instability concernig reaction-diffusion equations …… 8
Hiroko Okochi (Tokyo Univ. of Pharmacy and Life Sci.)♯　Conditions for Turing's instability concernig reaction-diffusion equations

31　大河内広子 (東京薬大)♯　Pattern transitions of solutions concerning reaction-diffusion equations …… 8
Hiroko Okochi (Tokyo Univ. of Pharmacy and Life Sci.)♯　Pattern transitions of solutions concerning reaction-diffusion equations

32　三村与士文 (東京理大理工)♯　The variational formulation of the fully parabolic Keller–Segel system with degenerate diffusion …… 15
Yoshifumi Mimura (Tokyo Univ. of Sci.)♯　The variational formulation of the fully parabolic Keller–Segel system with degenerate diffusion

33　石田祥子 (東京理大理)♯　準線形退化放物・放物型 Keller–Segel 系の解の時間局所的存在と爆発について …… 15
横田智巳 (東京理大理)
Sachiko Ishida (Tokyo Univ. of Sci.)♯　Local-in-time existence and blow-up of solutions to quasilinear degenerate parabolic-parabolic Keller–Segel systems
Tomomi Yokota (Tokyo Univ. of Sci.)

34　溝口紀子 *　Finite-time blowup in the two-dimensional parabolic Keller–Segel system …… 15
(東京学大教育・JST さきがけ)
M. Winkler (Univ. Paderborn)
Noriko Mizoguchi *　Finite-time blowup in the two-dimensional parabolic Keller–Segel system
(Tokyo Gakugei Univ./JST PRESTO)
Michael Winkler (Univ. Paderborn)

35　鈴木貴 (阪大基礎工)♯　Global-in-time behavior of Lotka–Volterra systems …… 10
山田義雄 (早大理工)
Takashi Suzuki (Osaka Univ.)♯　Global-in-time behavior of Lotka–Volterra systems
Yoshio Yamada (Waseda Univ.)

36　猪奥倫左 (愛媛大理)♯　対数項を用いない臨界 Hardy の不等式とその最良定数 …… 12
Norisuke Ioku (Ehime Univ.)♯　On the best constant for the Hardy inequality in the limiting case with scale invariance

37　伊東裕也 (電　通　大)♯　Korn 不等式の一般化について ····· 15
Hiroya Ito (Univ. of Electro-Comm.)♯　A generalization of the Korn inequality

14:15〜16:15

38　市原直幸 (広島大工)*　On the criticality of viscous Hamilton–Jacobi equations ····· 15
Naoyuki Ichihara (Hiroshima Univ.)*　On the criticality of viscous Hamilton–Jacobi equations

39　新里智行 (阪　大　理)*　Almost global existence of solutions to the short-pulse equation ····· 10
Tomoyuki Niizato (Osaka Univ.)*　Almost global existence of solutions to the short-pulse equation

40　加藤孝盛 (京　大　理)♯　Unconditional well-posedness of the fifth order KdV equation with periodic boundary condition ····· 15
津川光太郎 (名大多元数理)
Takamori Kato (Kyoto Univ.)♯
Kotaro Tsugawa (Nagoya Univ.)　Unconditional well-posedness of the fifth order KdV equation with periodic boundary condition

41　林　仲夫 (阪　大　理)*　Logarithmic time decay and cubic nonlinear Schrödinger equations ··· 10
Nakao Hayashi (Osaka Univ.)*　Logarithmic time decay and cubic nonlinear Schrödinger equations

42　池田正弘 (阪　大　理)♯　絶対値 p 乗の非線形項を持つシュレディンガー方程式に対する解のライフスパンについて ····· 10
Masahiro Ikeda (Osaka Univ.)♯　Lifespan of solutions for the nonlinear Schrödinger equation without gauge invariance

43　鈴木敏行 (東京理大理)♯　The limiting case of nonlinear Schrödinger equations with inverse-square potentials ····· 15
Toshiyuki Suzuki (Tokyo Univ. of Sci.)♯　The limiting case of nonlinear Schrödinger equations with inverse-square potentials

44　宮崎隼人 (広島大理)♯　The derivation of the conservation law for nonlinear Schrödinger equations of Gross–Pitaevskii type ····· 10
Hayato Miyazaki (Hiroshima Univ.)♯　The derivation of the conservation law for nonlinear Schrödinger equations of Gross–Pitaevskii type

45　岸本　展 (京　大　理)♯　Well-posedness for the cubic nonlinear Schrödinger equation on two-dimensional torus ····· 15
Nobu Kishimoto (Kyoto Univ.)♯　Well-posedness for the cubic nonlinear Schrödinger equation on two-dimensional torus

16:30〜17:30　特別講演

隠居良行 (九大数理)♯　圧縮性 Navier–Stokes 方程式の漸近解析
Yoshiyuki Kagei (Kyushu Univ.)♯　Asymptotic analysis for the solution to the compressible Navier–Stokes equations

3月23日(土)

9:30〜11:45

46　高村博之 (公立はこだて未来大)*　空間 4 次元で 2 次の非線形項をもつ波動方程式に関する消散構造の一例 ····· 10
若狭恭平 (公立はこだて未来大)
Hiroyuki Takamura (Future Univ.-Hakodate)*
Kyouhei Wakasa (Future Univ.-Hakodate)　An example of dissipative structure of nonlinear wave equations with quadratic terms in four space dimensions

47　土井一幸 (富山県立大工)*
久保英夫 (北　大　理)
On the weighted pointwise estimates for derivatives of solutions to the wave equation ····· 10

Kazuyuki Doi (Toyama Pref. Univ.)*
Hideo Kubo (Hokkaido Univ.)
On the weighted pointwise estimates for derivatives of solutions to the wave equation

48　渡辺朋成 (広島大理)♯
空間非一様な消散項を持つ非線形波動方程式の大域解の存在と減衰評価について ····· 10

Tomonari Watanabe (Hiroshima Univ.)♯
Global existence and decay estimates for quasilinear wave equations with nonuniform dissipative term

49　橋本伊都子　*
(金沢大自然・阪市大数学研)
H. Freistühler (Konstanz Univ.)
単独粘性保存則の初期値境界値問題について ····· 10

Itsuko Hashimoto　*
(Kanazawa Univ. / Osaka City Univ.)
Heinrich Freistühler (Konstanz Univ.)
Initial boundary value problem for scalar conservation law

50　柘植直樹 (岐阜大教育)♯
ノズル内の気体の運動 —時間大域解の存在と不変領域— ····· 15

Naoki Tsuge (Gifu Univ.)♯
The motion of the gas in a nozzle —Time global existence and invariant regions—

51　J. Prüss (Univ. Halle)*
清水扇丈 (静岡大理)
M. Wilke (Univ. Halle)
相転移を伴う有界領域内非圧縮性 2 相流の解の安定性 —異密度の場合— ····· 15

Jan Prüss (Univ. Halle)*
Senjo Shimizu (Shizuoka Univ.)
Mathias Wilke (Univ. Halle)
On a stability of incompressible two-phase flows with phase transitions in a bounded domain: The case of non-equal densities

52　牧野　哲 (山口大工)*
気体星の球対称運動 ····· 15

Tetu Makino (Yamaguchi Univ.)*
Spherically symmetric motions of a gaseous star

53　小林徹平 (明大理工)*
Jeffery–Hamel's flows in the plane III ····· 10

Teppei Kobayasi (Meiji Univ.)*
Jeffery–Hamel's flows in the plane III

54　小林徹平 (明大理工)*
Steady Navier–Stokes equations with Poiseuille's flow and Jeffery–Hamel's flow ····· 15

Teppei Kobayasi (Meiji Univ.)*
Steady Navier–Stokes equations with Poiseuille's flow and Jeffery–Hamel's flow

14:15〜15:15　特別講演

高村博之 (公立はこだて未来大)♯
単独非線形波動方程式の初期値問題に対する一般論とその最適性

Hiroyuki Takamura　♯
(Future Univ.-Hakodate)
General theory for the Cauchy problem of single nonlinear wave equations and its optimality