

Functional Equations Based upon Phenomena

Monday, November 6 – Friday, November 10, 2006
Room 115, Research Institute for Mathematical Sciences (RIMS)
Kyoto University

Organizer: Yutaka Kamimura
(Tokyo Univ. of Marine Sci. and Tech.)

Program

Monday, November 6

- 13:00 ~ 13:30 Shingo Iwami, Tadayuki Hara (Osaka Prefecture Univ.)
Global property of invasive disease with n-virulence
- 13:30 ~ 14:00 Fumiyuki Kawahigashi, Hideaki Matsunaga (Osaka Prefecture Univ.)
Asymptotic stability conditions for linear difference systems with two delays
- 14:15 ~ 14:45 Hidekazu Asakawa (Gifu Univ.)
Existence of positive radial solutions for semilinear elliptic equations with harmonic term
- 14:45 ~ 15:15 Hiroyuki Usami (Hiroshima Univ.)
Asymptotic forms of weakly increasing positive solutions of quasilinear ordinary differential equations
- 15:30 ~ 16:00 Minoru Nakano (Keio Univ.)
On a 2nd order linear O.D.E. with a turning point and singularity
- 16:00 ~ 16:30 Shinji Nakaoka (Shizuoka Univ.)
Analysis of size-structured population dynamics

Tuesday, November 7

- 10:00 ~ 10:30 Shigehide Iwata (Shizuoka Univ.)
Plant species coexistence on the revised lottery model—The density dependence effect on the seed settlement rate
- 10:30 ~ 11:00 Keita Ashizawa (Meijo Univ.), Rinko Miyazaki (Shizuoka Univ.)
Spectrum and convergent speed for a type of delay differential system
- 11:15 ~ 11:45 Chun-Gil Park (Hanyang Univ.)
Isomorphisms and derivations in C^* -algebras
- 11:45 ~ 12:15 Jong Son Shin, Toshiki Naito (Univ. of Electro-Communications)
A representation of solutions for periodic linear differential equations

Lunch

- 13:30 ~ 14:00 Masakazu Onitsuka, Jitsuro Sugie (Shimane Univ.)
Global asymptotic stability for half-linear differential equations with bounded coefficients
- 14:00 ~ 14:30 Kouhei Matsumura, Jitsuro Sugie (Shimane Univ.)
Oscillation theorems for half-linear differential equations with divergent coefficients
- 14:45 ~ 15:45 Hideki Nagashima (Tokyo Univ. of Marine Sci. and Tech.)
[Special Lecture] Ocean physics based upon phenomena
- 16:00 ~ 16:30 Masakatsu Suzuki, Hideaki Matsunaga, Tadayuki Hara (Osaka Prefecture Univ.)
Stability criteria for linear differential systems with delay in off-diagonal terms
- 16:30 ~ 17:00 Mami Suzuki (Aichi Gakusen Univ.)
A functional equation which is reduced to nonlinear second order difference equations whose eigenvalues are 1

Wednesday, November 8

- 10:00 ~ 10:30 Naoto Yamaoka (Sophia Univ.)
Oscillation constant of nonlinear differential equations with delay

- 10:30 ~ 11:00 Kazuyuki Matsui, Hideaki Matsunaga (Osaka Prefecture Univ.),
Satoru Murakami (Okayama Univ. of Science)
Perron type theorems for functional differential equations with infinite delay
- 11:15 ~ 12:00 Inbo Sim (Pusan National Univ.)
Global bifurcation of sign-changing solutions for singular one-dimensional p-Laplacian
- Lunch
- 13:30 ~ 14:15 Yong-Hoon Lee (Pusan National Univ.)
Existence of multiple positive radial solutions for p-Laplacian problems in an exterior domain
- 14:30 ~ 15:30 Naoyuki Ishimura (Hitotsubashi Univ.)
[Special Lecture] Mathematical finance and functional equations
- 15:45 ~ 16:15 Ryuji Kajikiya (Nagasaki Institute of Applied Science)
Comparison theorem and a priori estimate of positive solutions for sublinear elliptic equations
- 16:30 ~ 17:00 Kiyoyuki Tchizawa (Musashi Institute Technology),
Hideo Miki, Hisakazu Nishino (Keio Univ.)
On 4-dim duck solution in a trading, dynamical, economic model

Thursday, November 9

- 10:00 ~ 10:30 Tokushi Sato (Tohoku Univ.), Yuki Naito (Kobe Univ.)
Positive solutions for semilinear elliptic equations with singular forcing terms
- 10:30 ~ 11:00 Satoshi Tanaka (Okayama Univ. of Science)
On the uniqueness of nodal radial solutions of superlinear elliptic equations in a ball
- 11:15 ~ 11:45 Jito Vanualailai , Bibya Sharma (South Pacific Univ.) ,
Shin-ichi Nakagiri (Kobe Univ.)
Artificial potential fields with asymptotic stability properties

11:45 ~ 12:15 Bibya Sharma , Jito Vanualailai (South Pacific Univ.) ,
Shin-ichi Nakagiri (Kobe Univ.)
Posture control of tractor-traile systems: A Lyapunov approach.

Lunch

13:30 ~ 14:00 J. Ha (Korea Univ. of Tech. and Edu.),
S. Gutman (Oklahoma Univ.)
Parameter estimation problem for a damped Sine-Gordon equation

14:00 ~ 14:30 Shin-ichi Nakagiri (Kobe Univ.), J. Ha (Korea Univ. of Tech. and
Edu.), Jito Vanualailai (South Pacific Univ.)
Spatially-varying parameters identification problems for nonlinear
strongly damped wave equations

14:45 ~ 15:15 Tomomitsu Teramoto (Onomichi Univ.)
Existence of positive entire solutions of second order semilinear elliptic
systems

15:15 ~ 15:45 Yasuhisa Saito (Shizuoka Univ.)
Stability of chemostadt-type equations and biodiversity

16:00 ~ 16:30 Shigeru Haruki (Okayama Univ. of Science),
Shin-ichi Nakagiri (Kobe Univ.)
Functional equations characterizing quadratic functions and square
measures

Friday, November 10

10:00 ~ 10:30 Seiji Saito, Hiroaki Ishii (Osaka Univ.)
On eventually uniformly asymptotical stability to finite coverings
of periodic points for difference equations

10:30 ~ 11:00 Xianning Liu (Southwest Univ.)
Epidemic models with population dispersal

11:15 ~ 11:45 Yasuhiro Takeuchi (Shizuoka Univ.)
Avian-Human influenza epidemic model