The 3rd Taiwan-Japan Joint Workshop for Young Scholars in Applied Mathematics

Time: February 27-28, 2012

Venue: Room 202, Astro-Math. Building, National Taiwan University

Program

February 27 (Monday)

09:00	Registration
09:20	Opening
09:30 -- 09:45	Yamaguchi, Masahiro山口将大 (Meiji University, D)
	Mathematical model of bone remodeling based on antagonistic adaptability
09:45 -- 10:00	Poh, Ai Ling 傅 愛玲 (Meiji University, D)
	What are the Most Important Aspects of Information Security Systems for the Smart Grid?
10:00 -- 10:15	Sugiura, Kyouichi 杉浦亮一 (Shizuoka University, D)
	Mathematical analysis of the slave-maker Ants
10:15 -- 10:30	Iwamoto, Mayuko 岩本真裕子 (Meiji University, D)
	Crawling Locomotion: The Advantage of Mucus
10:30 -- 10:45	Break
10:45 -- 11:00	Lin, Chui-Ju 林秋如 (Tsing Hua University, D)
	N-species competition model with photo-inhibition.
11:00 -- 11:15	Lin, Ying-Chih 林穎志 (National Taiwan Normal University, D)
	The sign of the wave speed for the Lotka-Volterra competition-diffusion system
11:15 -- 11:30	Ling, Chia-Tung 凌家東 (National Taiwan Normal University, D)
	Dynamics for a complex-valued heat equation with an inverse nonlinearity.
11:30 -- 11:45	Wu, Yen-Lin 吳彥霖 (National Central University, D)
	On the Classication of Solutions for Semilinear Elliptic Equation on the Hyperbolic Space
11:45 -- 11:55	Break
11:55 -- 12:10	Niiya, Hirofumi 新屋啓文 (Hiroshima University, D)
	Pattern formation of granular avalanches simulated by particle method with hydrodynamics interaction
12:10 -- 12:25	Monobe Harunori 物部治徳 (Tokyo Institute of Technology, PoD)
	Behavior of spherically symmetric solutions for a free boundary problem
12:25 -- 13:30	Photo & Lunch
13:30 -- 13:45	Shibuya , Koki 澁谷幸樹 (Meiji University, M)
	Reaction-diffusion approximation of chemotaxis
13:45 -- 14:00	Tanaka, Yoshitaro 田中吉太郎 (Meiji University, M)

Reaction-diffusion model for inflorescence of sunflower

14:00 -- 14:15   Masui, Tsubasa 増井翼 (Meiji University, M)

Arch-shaped equilibrium solutions in social force model

14:15 -- 14:30   Sago, Hiroaki 佐合洋彰 (Meiji University, M)

Mathematical study of a "phantom jam" in traffic flow

14:30 -- 14:40   Break

14:40 -- 14:55   Hung, Kuo-Chih 洪國智 (Tsing Hua University, PoD)

S-shaped bifurcation curve for the perturbed Gelfand problem

14:55 -- 15:10   Cheng, Yan-Hsiou 鄭彥修 (Tsing Hua University, PoD)

Inverse nodal problems for the p-Laplacian eigenvalue problem

15:10 -- 15:25   Tang, Yong-Li 唐永立 (Tsing Hua University, PoD)

On a Model Arising from Single Species Consuming Two Complementary Nutrients in a Water Column

15:25 -- 15:40   Wu, Chang-Hong 吳昌鴻 (Tamkang University, PoD)

On a free boundary problem for a two-species weak competition system

15:40 -- 16:00   Break

16:00 --16:15   Kikugawa, Harue 菊川晴絵 (Meiji University, M）

Time series analysis of exchange rate of Yuan to KM2O-Langevin equation

16:15-- 16:30   Aida, Chihiro 相田千尋 (Meiji University, M）

Bifurcation from infinity of a reaction diffusion system

16:30 -- 16:45   Kaihara, Mai 海原麻衣 (Meiji University, M）

Obstacle-induced spirals in an excited medium

16:45 -- 17:00   Tateno, Kurina 館野紅理奈 (Meiji University, M）

System for supporting fortuitous encounter with books

17:00-17:10   Break

17:10 --17:25   Yang, Sze-Guang 楊世光 (National Central University, PoD)

Evaluation of Solutions in a Cosmic String Model

17:25-- 17:40   Yang, Chi-Ru 楊其儒 (NCTS, PoD.)

Existence of Traveling Wave Solutions for Diffusive Predator-Prey Type Systems

17:40 -- 17:55   Lee, Chiun-Chang 李俊璋 (National Taiwan University, PoD)

Asymptotic formulas for the boundary layers of Poisson-Boltzmann equations

17:55 -- 18:10   Hung, Li-Chang 洪立昌 (National Taiwan University, PoD)

Traveling Wave Solutions of Diffusive Lotka-Volterra Systems of Three Species

18:50   Banquet

February 28 (Tuesday)

09:00 -- 9:15   Sunada, Yasushi 砂田 靖志 (Hiroshima University, M)
A preliminary study for the snake vision simulator

09:15 -- 09:30   Shinjo, Naoyuki 新城 直幸 (Ryukoku University, M)
Mathematical model for transportation of gas in the blood-alveoli

09:30 -- 09:45   Mori, Tatsuki 森 竜樹 (Ryukoku University, M)
Stability of stationary solutions of a cross-diffusion equation -numerical approach

09:45 -- 10:00   Nomura, Rui 野村塁 (Meiji University, M)
Critical Social Learning : A Solution to Roger's Paradox of Non-adaptive Culture

10:00 -- 10:10   Break

10:10 -- 10:25   Nakamura, Yuumi 中村優美 (Meiji University, M）
Time-series analysis of JPY/TWD

10:25 -- 10:40   Inoue, Soichiro 井上総一郎 (Meiji University, M）
Time Series Analysis of Japanese Government Bond

10:40 -- 10:55   Li, Bo 李 博 (Meiji University, M）
An introduction of Cellular Automaton Model

10:55 -- 11:10   Tateishi, Keita 立石恵大 (Meiji University, M）
Emergence of spiral waves on inhomogeneous excitable media.

11:10 -- 11:25   Break

11:25 -- 11:40   Ke, Po-Ju 柯柏如 (National Taiwan University, M)
Linking Plant Defense Trait and Negative Plant-Soil Feedback - a Theoretical Approach

11:40 -- 11:55   Hsiao, Jun-Shian 蕭俊賢 (Tsing Hua University, D)
On central configuration

11:55 -- 12:10   Liu, Chia-Chen 劉家禎 (Chung Cheng University, PoD)
TBA

12:10 -- 12:25   Huang, Chih-Chiang 黃志強 (National Taiwan University, D)
Travelling wave solutions of the diffusive FitzHugh-Nagumo system in a cylinder - a variational approach

12:25 -- 12:35   Break

12:35 -- 12:50   Chen, Yan-Yu 陳彦宇 (Meiji University, D)
Spiral waves of a wave front interaction model in a plane

12:50 -- 13:05   Sushida, Takamichi 須志田 隆道 (Ryukoku University, D)
Voronoi spiral tilings

13:05 -- 13:20   Lukito, Adi Nugroho (Meiji University, D)

TBA

13:20 -- 14:10	Lunch
14:10 -- 14:30	Award Ceremony
14:30	Free Discussion