Chemotaxis and Nonlinear Parabolic Equations –In honor of Professor Takasi Senba on his 60th birthday–

Date: Nov. 6th (Wednesday) – Nov. 8th (Friday), 2019 Venue: Kitakyushu International Conference Center, 2F Address: 3-9-30 Asano, Kokurakita-ku, Kitakyushu-shi, Fukuoka 802-0001

Wednesday, Nov. 6th

- 13:20 13:50 Registration
- 13:50 13:55 Opening
- 14:00 14:50 Grzegorz Karch (Uniwersytet Wrocławski) Variations on Kurokiba-Ogawa approach to model of chemotaxis
- 15:00 15:50 Hiroshi Wakui (*Uniwersytet Wrocławski*) Self-similar solution to a problem of a model of chemotaxis in higher dimensions
- 16:10 17:00 Sachiko Ishida (*Chiba University*)
 Boundedness and weak stabilization in Keller-Segel systems with porous medium diffusion
- 17:10 18:00 Goro Akagi (*Tohoku University*) Traveling wave dynamics for Allen-Cahn equations with non-decreasing constraints

Thursday, Nov. 7th

- 10:00 10:50 Youshan Tao (*Shanghai Jiao Tong University*) Boundedness and stabilization in a triangular cross-diffusion system
- $10{:}50-11{:}10$ Coffee break
- 11:10 12:00 Tomasz Cieślak (Institute of Mathematics, Polish Academy of Sciences) Fully parabolic chemorepulsion

Lunch break

14:00 – 14:50 Tetsuya Yamada (*National Institute of Technology, Fukui College*) Global existence and blow up of solutions to an attraction–repulsion chemotaxis system in the balance case

- 15:00 15:50 Yuusuke Sugiyama (*The University of Shiga Prefecture*)
 Stationary and nonstationary problems for the drift-diffusion equation with fractional dissipation
- 16:10 17:00 Masakazu Yamamoto (*Niigata University*) Spatial decay of solutions to anomalous diffusion equation
- 17:10 18:00 Takayoshi Ogawa (*Tohoku University*)
 Singular limit problem for the Keller-Segel equation to the drift-diffusion system in a critical setting

Friday, Nov. 8th

- 10:00 10:50 Messoud Efendiev (University of Waterloo/Helmholtz Zentrum München) Finite dimensional dynamics of a degenerate chemotaxis system
- $10{:}50-11{:}10$ Coffee break
- 11:10 12:00 Philippe Laurençot (Institut de Mathématiques de Toulouse, CNRS) Dynamics of a chemotaxis system with indirect signal production Lunch break
- 14:00 14:50 Kimie Nakashima (*Tokyo University of Marine Science and Technology*) Uniqueness of indefinite nonlinear diffusion problem in population genetics
- 15:10 16:00 Kazuhiro Ishige (*The University of Tokyo*)
 Existence of solutions for a higher-order semilinear parabolic equation with singular initial data
- 16:20 17:10 Yūki Naito (*Ehime University*)
 Blow-up criteria for the simplest Keller-Segel model of chemotaxis in higher dimensions
- 17:10 Free discussion

Organizers: Masaki Kurokiba (Muroran Institute of Technology) Tohru Wakasa (Kyushu Institute of Technology) Kentarou Fujie (Tohoku University)

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