26th Matsuyama Camp: Recent Development on Partial Differential Equations

Dedicated to the 60th Birthday of Professor Yoshinori MORIMOTO

6/1/2011 to 9/1/2011

TOMOIKISO (Ryukoku University)
tel: 075-366-5303
http://www.ryukoku.ac.jp/tomoikiso/ (in Japanese)
602-8019 38 Konoe-chou, Shimochoja-machi Sagaru, Muromachi-dori,
Kamigyou-ku, Kyoto

January 6, 2011

11:00 − 11:50
Boltzmann equation and the existence of solutions
Seiji UKAI (Professor Emeritus Tokyo Institute of Technology)

13:30 − 14:20
Lower and upper estimates for the non-cutoff collisional operator
Radjesvarane ALEXANDRE
(Shanghai Jiao Tong University / French Naval Academy)

14:40 − 15:30
Optimal hypoelliptic estimates for a class of kinetic equations
Karel PRAVDA-STAROV
(Chaire CNRS de Physique-Mathématique Université de Cergy-Pontoise)

16:10 − 17:00
Stark effect on H_2^+-like molecules
Vania SORDONI (University of Bologna)

17:20 − 18:10
Life-time for the molecular predissociation (joint work with A. Grigis)
Andre MARTINEZ (University of Bologna)

January 7, 2011

10:00 – 10:50
> **Regularities of solutions for a class of degenerate partial differential equations**
>> Hua CHEN (Wuhan University)

11:10 – 12:00
> **Regularity of solutions for the non-cutoff Boltzmann equation**
>> Chao-Jiang, XU (Wuhan University/Université de Rouen)

13:30 – 14:20
> **Hypocoercivity in kinetic theory and the convergence to the equilibrium**
>> Tong YANG (City University of Hong-Kong)

14:40 – 15:30
> **Uniqueness of solutions for non-cutoff Boltzmann equation and singular change of variables in pres-post collisional velocities**
>> Yoshinori MORIMOTO (Kyoto University)

16:10 – 17:00
> **On fundamental solutions related to non-local Dirichlet forms with BMO convections**
>> Yasunori MAEKAWA (Kobe University)

17:20 – 18:10
> **On the Cauchy problem for the water wave system**
>> Claude ZUILLY (Professor Emeritus Université de Paris XI)

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19:00   BANQUET: Kyoto Garden Palace
>   tel: 075-411-0111   http://www.hotelgp-kyoto.com/
> **602-0912 605 Tatsumae-chou, Shimochoja-machi Agaru, Karasuma-dori, Kamigyou-ku, Kyoto**

January 8, 2011

10:00 – 10:50

The construction of a class of solutions to hyperbolic equations and applications to inverse problems
   Hideki TAKUWA (Doshisha University)

11:10 – 12:00

Nonlinear eigenvalue problem and related topics
   Toshihiko HOSHIRO (University of Hyogo)

13:30 – 14:20

Singularities of solutions to the Cauchy problem for second-order hyperbolic operators with the coefficients of their principal parts depending only on the time variable
   Seiichiro WAKABAYASHI (University of Tsukuba)

14:40 – 15:30

The Lyapunov exponents for nonhomogeneous linear differential systems
   Haruhisa ISHIDA (University of Electro-Communications)

16:10 – 17:00

Note on lower bounds of energy growth for solutions to wave equation
   Tatsuo NISHITANI (Osaka University)

17:20 – 18:10

On the energy estimates for second order homogeneous hyperbolic equations with Levi-type conditions
   Fumihiko HIROSAWA (Yamaguchi University)

January 9, 2011

10:00 – 10:50

Semiclassical resonance width for homoclinic trajectories (joint work with J.-F.Bony, T.Ramond, M.Zerzeri)
   Setsuro FUJIIE (Ritsumeikan University)

11:10 – 12:00

Construction of the fundamental solutions and spectral functions of nilmanifolds
   Chisato IWASAKI (University of Hyogo)

13:30 – 14:20
Blow up Phenomena on the curvature of closed plane elastic curves
Toshiyuki MIYOSHI (Ryukoku University, Master Course)

14:40 – 15:30
Blow up Phenomena on the curvature of closed plane elastic curves with the winding number $\omega \geq 1$
Minoru MURAI (Ryukoku University, Post-Doctral)

Organaising Comitee
Toshihiko HOSHIRO (University of Hyogo)
Waichiro MATSUMOTO (Ryukoku University)
Humihiko HIROSAWA (Yamaguchi Universitu)

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