

Ito Workshop on Partial Differential Equations:
KYUSHU UNIV.– POSTECH – SJTU Joint Workshop on
PDEs and Related Topics

Date August 23 (Thurs.) – August 24 (Fri.), 2018

Venue IMI auditorium, Kyushu University Ito Campus
(West Zone 1 Building D 413) TEL: 092-802-4402
<http://www.imi.kyushu-u.ac.jp/eng/>

Program

August 23 (Thursday)

- 9:30 ~ 10:00 Minseok Choi (POSTECH)
Time-dependent Karhunen-Loeve type decomposition methods for SPDEs
- 10:00 ~ 10:30 Yue Cao (Shanghai Jiao Tong University)
Local classical solution to full Navier-Stokes equations with vacuum and temperature-dependent heat-conductivity
- 10:50 ~ 11:20 Takashi Kagaya (Kyushu University)
On traveling waves for one-dimensional surface diffusion with contact angle condition
- 11:40 ~ 12:10 Hyung Ju Hwang (POSTECH)
On dissipative kinetic equations
- 12:10 ~ 12:40 Beixiang Fang (Shanghai Jiao Tong University)
On admissible locations of transonic shock-fronts for full Euler flows in an almost flat finite nozzle
- 14:10 ~ 14:40 Yukihiro Seki (Kyushu University)
On blow-up mechanisms in harmonic map heat flow
- 14:50 ~ 15:20 Youngae Lee (Kyungpook National University)
On the global bifurcation diagram of mean field equations
- 15:30 ~ 16:00 Lei Ma (Shanghai Jiao Tong University)
Existence and convergence rates of subsonic flows through an infinitely long nozzle with an obstacle inside

- 16:30 ~ 17:00 Yoshihiro Ueda (Kobe University)
 Characterization of the dissipative structure for the symmetric hyperbolic system with non-symmetric relaxation
- 17:10 ~ 17:40 Kazuyuki Tsuda (Osaka University)
 Time decay estimate including diffusion wave property for solution to the compressible Navier-Stokes-Korteweg system

August 24 (Friday)

- 9:30 ~ 10:00 Seungchan Ko (University of Oxford)
 Analysis and approximation of incompressible chemically reacting non-Newtonian fluids
- 10:00 ~ 10:30 Haitao Wang (Shanghai Jiao Tong University)
 Pointwise estimate of the solution of the linearized Boltzmann equation
- 10:50 ~ 11:20 Yasunori Maekawa (Kyoto University)
 On two-dimensional flow around a fast rotating disk
- 11:40 ~ 12:10 Donghyun Lee (POSTECH)
 The Boltzmann equation in bounded domains
- 12:10 ~ 12:40 Xiongfeng Yang (Shanghai Jiao Tong University)
 Pointwise structure of a radiation hydrodynamic model in one-dimension
- 14:10 ~ 14:40 Michiaki Onodera (Tokyo Institute of Technology)
 Dynamical approach to Bernoulli's free boundary problem
- 14:50 ~ 15:20 Hyangdong Park (POSTECH)
 Contact discontinuities for compressible flows
- 15:30 ~ 16:00 Qin Zhao (Shanghai Jiao Tong University)
 Stabilization effect of frictions in three-dimensional steady compressible Euler flows
- 16:30 ~ 17:00 Yusuke Ishigaki (Kyushu University)
 Global existence of solutions of the compressible viscoelastic fluid around a parallel flow
- 17:10 ~ 17:40 Ryo Takada (Kyushu University)
 Strongly stratified limit for the 3D inviscid Boussinesq equations

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Organizers Myoungjean Bae (POSTECH)
 Yoshiyuki Kagei (Kyushu University)
 Chunjing Xie (Shanghai Jiao Tong University)
 Tohru Nakamura (Kumamoto University)
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