

# **3rd Workshop on recent development of mathematical fluid dynamics and hyperbolic conservation laws**

Date: December 7th-8th, 2018

Venue: 2nd Building Room 2303, Fukae Campus, Kobe University

## **Programme**

### December 7th

09:30 – 09:40 : Opening

09:40 – 10:30 : Soyeun Jung (Kongju National University, Korea)

Stability of periodic traveling waves (I)

10:40 – 11:30 : Soyeun Jung (Kongju National University, Korea)

Stability of periodic traveling waves (II)

11:30 – 13:00 : Lunch Time

13:00 – 13:50 : Jan Brezina (Kyushu University, Japan)

Stability of strong solutions to Navier-Stokes-Fourier system (I)

14:00 – 14:50 : Jan Brezina (Kyushu University, Japan)

Stability of strong solutions to Navier-Stokes-Fourier system (II)

14:50 – 15:20 : Coffee Break

15:20 – 16:10 : I-Kun Chen (National Taiwan University, Taiwan)

Regularity for diffuse reflection boundary problem to the stationary linearized Boltzmann equation in a convex domain (I)

16:20 – 17:10 : I-Kun Chen (National Taiwan University, Taiwan)

Regularity for diffuse reflection boundary problem to the stationary linearized Boltzmann equation in a convex domain (II)

18:00 – : Banquet

December 8th

09:40 – 10:30 : Masashi Aiki (Tokyo University of Science, Japan)

On the interaction of two coaxial vortex rings (I)

10:40 – 11:30 : Masashi Aiki (Tokyo University of Science, Japan)

On the interaction of two coaxial vortex rings (II)

11:30 – 13:00 : Lunch Time

13:00 – 13:50 : Jinmyoung Seok (Kyonggi University, Korea)

Classification on ground states to three coupled nonlinear Schrödinger equations (I)

14:00 – 14:50 : Jinmyoung Seok (Kyonggi University, Korea)

Classification on ground states to three coupled nonlinear Schrödinger equations (II)

14:50 – 15:20 : Coffee Break

15:20 – 16:10 : Ming-Cheng Shine (National Chiao Tung University, Taiwan)

Projection methods for Navier-Stokes and Darcy flow based on finite difference methods (I)

16:20 – 17:10 : Ming-Cheng Shine (National Chiao Tung University, Taiwan)

Projection methods for Navier-Stokes and Darcy flow based on finite difference methods (II)

17:10 – : Closing and free discussion

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Organizers:

Chun-Hsiung Hsia (National Taiwan University)

Bongsuk Kwon (Ulsan National Institute of Science and Technology)

Masahiro Suzuki (Nagoya Institute of Technology)

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