

# International workshop on mathematical science for nonlinear phenomena

In honor of Prof. Hisashi Okamoto on his 60<sup>th</sup> birthday

September 28<sup>th</sup> – October 1<sup>st</sup>, 2016

Hotel Grand Terrace Obihiro

Program (As of September 21, 2016)

## September 28

16:00—18:00 Registration (At the lobby level)

16:00—17:00 Takashi Sakajo (Kyoto University)

## September 29

9:00— 9:05 Opening

9:05— 9:30 I-Liang Chern (National Taiwan University)

“Mathematical Theory for ground states of spin-1 Bose-Einstein condensates”

9:30— 9:30 Tao Tang (South University of Science and Technology of China)

9:55—10:25 Coffee Break

10:25—10:50 Xiao-Ping Wang (Hong Kong University of Science and Technology)

“An efficient threshold dynamics method for wetting dynamics”

10:50—11:15 Ming-Chih Lai (National Chiao Tung University)

”Numerical issues on some interface problems with flows”

11:15—11:40 Zhouping Xin (The Chinese University of Hong Kong)

11:40—13:30 Lunch

13:30—13:55 Hyung-Chun Lee (Ajou University)

“Computational methods of optimal control problems for Stochastic Partial Differential Equations”

13:55—14:20 Hyeonbae Kang (Inha University)

”Precise quantitative analysis of stress between adjacent inclusions: A survey”

14:20—14:45 Sun-Chul Kim (Chung-Ang University)

14:45—15:15 Coffee Break

15:15—16:15 Bernardo Cockburn (University of Minnesota)

”An HDG method for the Navier-Stokes equations”

16:15—16:45 Ryo Kobayashi (Hirshoshima University)

17:00—17:30 Hisashi Okamoto (Kyoto University)

17:40—18:00 Kyoko Tomoeda (Setsunan University)

“The bifurcation of Okamoto's mathematical fluid dynamics”

18:30—20:30 Dinner (Celebration Party)

### September 30

9:30— 9:55 Tomoyuki Miyaji (Meiji University)

”In search of closed orbits in Craik and Okamoto’s 3D dynamical system”

9:55—10:20 Norikazu Saito (The University of Tokyo)

“Analysis of the immersed boundary method for the Stokes interface problem”

10:50—11:15 Yusuke Iso (Kyoto University)

11:15—11:40 Hideo Kozono (Tohoku University)

“Navier-Stokes equations in the Besov space”

11:40—13:30 Lunch

13:30—13:55 Yoshifumi Kimura (Nagoya University)

13:55—14:20 Takayoshi Ogawa (Tohoku University)

14:20—14:50 Coffee Break

14:50—15:15 Hayato Nawa (Meiji University)

“決定論的系の中の確率論的な性質：二つの例”

15:15—15:40 Toshiyuki Ogawa (Meiji University)

“多種反応拡散系の進行波解について”

15:40—16:05 Hiroshi Kokubu (Kyoto University)

16:10—16:15 Closing

18:00— Dinner (at Tokachi Nouen)

<http://www.tokachinouen.com/>

for 5000 yen/person

October 1<sup>st</sup>

9:00—11:30 Free talks

### Organizers

Masaharu Nagayama (Hokkaido University)

Kenta Kobayashi (Hitotsubashi University)

Takashi Sakajo (Kyoto University)

## Access Information

### [Workshop Venue]

Hotel Gran Terrace Obihiro

Address: 11-2 Nishi 1-jo Minami, Obihiro, Hokkaido 080-0011 Tel: 0155-27-0109

URL: <http://breezbay-group.com/hgt-obihiro/index.html>

The Hotel is located near JR Obihiro station. We are arranging to have staff at New Chitose Airport on September 28th who will accompany participants to JR Obihiro station.

### [Passengers with bus reservation from New Chitose Airport]

(1) Buy tickets at Hokuto Kotsu (北都交通) Bus Counter located at the domestic terminal building on the first floor before you get on the bus.

[http://www.new-chitose-airport.jp/en/access/trans\\_info\\_counter/](http://www.new-chitose-airport.jp/en/access/trans_info_counter/)

You may use the credit card, but it is safer to prepare for some Japanese yen.

(2) Go to the bus stop No 21 at the domestic terminal building on the first floor.

<http://www.new-chitose-airport.jp/en/access/bus/>

The name of the bus is “Tokachi Milky Liner (とがちミルクレーライナー)”. I am afraid no English sign is shown on the bus. Please take care about the Japanese name. It will take 2.5 hours to get to JR Obihiro Station Bus Terminal

<http://www.obiuun.co.jp/bus/> (in Japanese only)

(3) Please keep the bus ticket for the return trip.

### [Passengers from Obihiro Airport]

Connecting Bus service

<http://www.tokachiobihiro-airport.jp/en/transportation/>