Mini-Workshop on Nonlinear Waves in Fluids

In honor of Professor Mitsuaki Funakoshi on the occasion of his retirement

Date	:	May 19 (Thu) & 20 (Fri), 2016
Place	:	Research Institute for Mathematical Sciences, Kyoto University Room 111 of RIMS in North Campus
URL	:	http://murasige.sci.ibaraki.ac.jp/mini_WS_Nonlinear_Waves_RIMS_2016.html
Organizers	:	Ken-ichi Maruno (Waseda Univ.), Sunao Murashige (Ibaraki Univ.), Naoto Yokoyama (Kyoto Univ.)

Program

May 19 (Thu)

13:00-13:10 Opening

13:10-13:50 Ken-ichi Maruno (Waseda University)
Self-adaptive moving mesh schemes for Camassa-Holm type equations

13:50-14:30 Takeshi Kataoka (Kobe University)
Three-dimensional instability of internal wave beams

Coffee break

15:00-15:40 Roberto Camassa (University of North Carolina)
Mixing and critical entrainment phenomena in stratified fluids

15:40-16:20 Wooyoung Choi (New Jersey Institute of Technology)
Surface expressions of internal solitary waves

16:20-17:00 Mitsuaki Funakoshi (Kyoto University)
Nonlinear water waves due to the resonant motions of a container

Banquet

May 20 (Fri)

9:30-10:10 Naoto Yokoyama (Kyoto University) and
Masanori Takaoka (Doshisha University)
Weak and strong nonlinearities in stratified turbulence

10:10-10:50 Mitsuhiro Tanaka (Gifu University) and
Naoto Yokoyama (Kyoto University)
On initial evolution of wave turbulence spectrum

10:50-11:30 Hidekazu Tsuji (Kyushu University)
Application of lattice Boltzmann method to nonlinear wave equation

Group Photo

Lunch

13:30-14:10 Yasuhiro Ohta (Kobe University)
Localized solutions for soliton equations and their algebraic structure

14:10-14:50 Yoshimasa Matsuno (Yamaguchi University)
Integrable multi-component generalization of a modified short pulse equation

Coffee break

15:00-15:40 Taro Kakinuma (Kagoshima University)
Numerical solutions for surface and internal solitary waves

15:40-16:20 Tatsuo Iguchi (Keio University)
Variational methods and the Isobe-Kakinuma model for water waves

16:20-17:00 Sunao Murashige (Ibaraki University)
Generalization of Stokes' decay rate formula for solitary waves