

Workshop on Mathematical Analysis on
Nonlinear Phenomena
in honor of Professor Atusi Tani on the occasion of his 60th birthday

Date : December 19 – 21, 2006

Venue : Raiou-sha Symposium-space, Hiyoshi Campus, Keio University

Program

December 19 (Tuesday)

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| 9 : 30~10 : 00 | Tatsuo Iguchi
A shallow water approximation for water waves |
| 10 : 10~10 : 40 | Yoshiaki Kusaka
On the Stefan problems in an incompressible fluid |
| 11 : 00~11 : 50 | Seiji Ukai
New Function Space for Boltzmann Equation |
| 13 : 30~14 : 20 | Gregory A. Seregin
A sufficient condition of regularity for axially symmetric solutions to the Navier-Stokes equations |
| 14 : 30~15 : 20 | Shuichi Kawashima
Asymptotic stability of stationary waves for viscous conservation laws |
| 15 : 40~16 : 30 | Tosiaki Kori
Clebsh Parametrization, Helicity and Chern-Simons Functional |
| 16 : 40~17 : 30 | Tadayoshi Kano
Water waves KdV hierarchy II |

December 20 (Wednesday)

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| 9 : 30~10 : 00 | Takeyuki Nagasawa
Equivariant bifurcation theory without equivariant branching lemma |
| 10 : 10~10 : 40 | Shigenori Yanagi
Asymptotic stability of the solutions for a combustion model of compressible viscous gas |
| 11 : 00~11 : 50 | Kiyoshi Asano
Almost Transversality in the classical dynamical system |
| 13 : 30~14 : 20 | Yasuhide Fukumoto
Analogy between three-dimensional motions of an elastic rod and a vortex-jet filament |

- 14 : 30~15 : 20 Akitaka Matsumura
Asymptotic stability of a composite wave of two viscous shock waves for the equations of one-dimensional motion of the viscous and heat-conductive gas
- 15 : 40~16 : 30 Vsevolod A. Solonnikov
On the problem of stability of equilibrium figures of rotating liquid
- 16 : 40~17 : 30 Atusi Tani
Mathematical problems for the primitive equations

Party

18 : 00~20 : 00 Raiou-sha Faculty Lounge

December 21 (Thursday)

- 9 : 30~10 : 00 Takahiro Nishiyama
Relaxation methods for constructing steady Euler flows
- 10 : 10~10 : 40 Hiromichi Itou
Reconstruction of a linear crack in an isotropic elastic body from a single set of measured data
- 11 : 00~11 : 50 Alexander M. Khudnev
Boundary value problems in nonsmooth domains
- 13 : 30~14 : 20 Kumbakonam R. Rajagopal
Beyond the Navier-Stokes Equations
- 14 : 30~15 : 20 Nobutoshi Itaya
私と Compressible N S 方程式
- 15 : 40~16 : 30 Mikhail M. Lavrentiev, Jr.
Kuramoto-Sakaguchi integroparabolic equation: results, technique, unsolved problems
- 16 : 40~17 : 30 Takaaki Nishida
Bénard-Marangoni heat convection problem

Organizers T. Nagasawa
 S. Itoh
 N. Tanaka
 S. Yanagi
 T. Nishiyama
 T. Iguchi
 Y. Kusaka
 M. Ogawa
 H. Itou