COE Workshop on Nonlinear PDE in Analysis and Geometry

Date: 16-18 January, 2006
Place: Koseito meeting room, Yagami Campus, Keio University

January 16 (Monday)

13:20 Opening

13:30-14:20 (1) V.A. Solonnikov (Steklov Mathematical Institute)
TBA

14:30-15:20 (2) M. Padula (University of Ferrara)
Existence of global incompressible flows in a domain with free boundary

Coffee Break

15:40-16:30 (3) E. Feireisl (Institute of Mathematics, Prague)
Asymptotic properties of solutions to the Navier-Stokes-Fourier system

16:40-17:30 (4) G. Seregin (Steklov Mathematical Institute)
Local regularity theory of the Navier-Stokes equations

January 17 (Tuesday)

10:00-10:50 (5) A. Mahalov (Arizona State University)
Bursting and Homoclinic Dynamics of the 3D Euler Equations in Cylinders, I

11:00-11:50 (6) B. Nicolaenko (Arizona State University)
Bursting and Homoclinic Dynamics of the 3D Euler Equations in Cylinders, II

Lunch Break

14:00-14:50 (7) H. Nawa (Osaka University)
Pseudo-conformally Invariant Nonlinear Schr¥"odinger Equations
- Singularity Formation, Variational Structure, Nelson Diffusions

15:00-15:50 (8) Y. Tonegawa (Hokkaido University)
Action minimization problem related phase field model

Coffee Break

16:10-17:00 (9) N. Kikuchi (Keio University)
Construction oh harmonic map flow through the method of discrete Morse flows

18:30- Buffet Party

January 18 (Wednesday)

11:30-12:20 (10) S. Yamada (Tohoku Univeristy)
Variational Construction of Singular Minimal Submanifolds

Lunch Break

14:00-14:50 (11) Inui (Keio University)
On spatially nondecaying Navier-Stokes flow in a rotating frame

15:00-15:50 (12) H.Kozono (Tohoku University)
Some variational inequality in L^r and its application to the
Helmholtz-Weyl decomposition in $3-D$ bounded domains