2009 Fourth Trilateral Meeting on Analysis and Applications
"Australia-Italy-Taiwan"

Date: December 7- 11, 2009   Venue: Institute of Mathematics, Academia Sinica

December 7 (Monday)

08:30~09:30   Registration

Chairman: *Prof. Tai-Ping Liu*

09:30~10:20   Prof. Nicola Fusco (University of Napoli)
Equilibrium configurations of epitaxially strained elastic films: regularity and qualitative properties

10:20~10:40   Tea Break

10:40~11:30   Prof. Susanna Terracini (Università di Milano Bicocca)
Uniform Holder bounds and regularity properties of the limiting profile for highly competing nonlinear systems of Schroedinger equations

11:30~11:50   Tea Break

11:50~12:40   Prof. Chao-Nien Chen (National Changhua University of Education)
On the standing waves of FitzHugh-Nagumo type equations

12:40~14:30   Lunch

Chairman: *Prof. Kuo-Chang Chen*

14:30~15:20   Prof. Phillip Broadbridge (La Trobe University)
Series Solutions of Nonlinear Boundary Value Problems by Separation of Variables for 2nd Order and 4th Order Diffusion Equations

15:20~15:40   Tea Break

15:40~16:30   Prof. Piero Marcati (University of L' Aquila)
Analysis of quantum fluids

16:30~16:50   Tea Break

16:50~17:40   Prof. Chiun-Chuan Chen (National Taiwan University)
Lower bound on the blow-up rate of the axisymmetric Navier-Stokes equations

18:00~   Reception

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December 8 (Tuesday)

Chairman: *Prof. Yihong Du*

09:30~10:20	Prof. Stefano Bianchini (SISSA-ISAS) *On the extremality, uniqueness and optimality of transference plans*
10:20~10:40	Tea Break
10:40~11:30	Prof. Markus Hegland (Australian National University) *Approximating the Solution of the Chemical Master Equation*
11:30~11:50	Tea Break
11:50~12:40	Prof. Lung-Chi Chen (Fu Jen Catholic University) *Critical behavior and limit theorems for long-range oriented percolation*
12:40~14:30	Lunch

Chairman: *Prof. Stefano Bianchini*

14:30~15:20	Prof. Minchun Hong (University of Queensland) *Global existence of solutions of the simplified Ericksen-Leslie system in dimension two*
15:20~15:40	Tea Break
15:40~16:30	Prof. Shih-Hsien Yu (National University of Singapore) *Pointwise time-asymptotic stability of a Boltzmann shock profile*
16:30~16:50	Tea Break
16:50~17:40	Prof. Tai-Ping Liu (Academia Sinica) *Singularities for Dissipative Systems*

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December 9 (Wednesday)

Chairman: *Prof. Piero Marcati*

09:30~10:20	Prof. Kuo-Chang Chen (National Tsing Hua University) *On action-minimizing properties of some retrograde and prograde orbits of the three-body problem*
10:20~10:40	Tea Break
10:40~11:30	Prof. Timothy Marchant (University of Wollongong) *Semi-analytical results for optical solitary waves in nematic liquid crystals*
11:30~14:30	Lunch
14:30~17:40	Informal Discussion

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December 10 (Thursday)

Chairman: *Prof. Nalini Joshi*

09:30~10:20
Prof. Giuseppe Buttazo (Universita di Pisa)
Optimal Dirichlet regions for some elliptic problems

10:20~10:40 Tea Break

10:40~11:30
Prof. Ching-Hsiao Cheng (National Central University)
On the motion of vortex sheets with surface tension and the zero density limit in one phase

11:30~11:50 Tea Break

11:50~12:40
Prof. Adam Sikora (Macquarie University)
Harmonic analysis on asymptotically conic manifolds: Bochner-Riesz summability and restriction theorems

12:40~14:30 Lunch

Chairman: *Prof. Fon-Che Liu*

14:30~15:20
Prof. Peter Greiner (Academia Sinica)
Heat Kernels on Complex spheres

15:20~15:40 Tea Break

15:40~16:30
Prof. Andrea Malchiodi (SISSA)
Minimal surfaces in the Heisenberg group

16:30~16:50 Tea Break

16:50~17:40
Prof. Luigi Ambrosio (Scuola Normale Superriore de Pisa)
Flows in the space of probability measures and convergence of Wigner transforms

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December 11 (Friday)

Chairman: *Prof. Chiun-Chuan Chen*

09:30~10:20   Prof. Nalini Joshi (University of Sydney)
Hunting Non-linear Mathematical Butterflies

10:20~10:40   Tea Break

10:40~11:30   Prof. Vittorio Coti Zelati (University of Napoli)
Stationary solutions for pseudo-relativistic Schrödinger equation

11:30~11:50   Tea Break

11:50~12:40   Prof. Kin-Ming Hui (Academia Sinica)
Existence and dynamic properties of a parabolic nonlocal MEMS equation

12:40~14:30   Lunch

Chairman: *Prof. Nicola Fusco*

14:30~15:20   Prof. Shusen Yan (University of New England)
Bubbling solutions for relativistic Abelian Chern-Simons model   on a Torus

15:20~15:40   Tea Break

15:40~16:30   Prof. Jenn-Nan Wang (National Taiwan University)
Quantitative uniqueness and inverse problems

16:30~16:50   Tea Break

16:50~17:40   Prof. Yihong Du (University of New England)
Spreading speed revisited-a free boundary model