香港城市大學
City University of Hong Kong

香港中文大學
The Chinese University of Hong Kong

THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學

International Conference on nonlinear Partial Differential Equations: Theories, Numerics and Applications (Day 1)

Date: 21st May 2016 (Saturday)
Venue: AC3-8210 (City University of Hong Kong)

9:00 am – 9:15 am	**REGISTRATION**
9:15 am – 9:25 am	**WELCOME and OPENING**
9:25 am – 10:10 am	**Prof. Franco Brezzi** VEM for Magnetostatic Problems
10:10 am – 10:20 am	**Break**
10:20 am – 11:05 am	**Prof. José A. Carrillo** Nonlinear Diffusion-dominated Keller-Segal Equations: Stationary States & Long Time Asymptotics
11:05 am – 11:30 am	**COFFEE BREAK and DISCUSSION**
11:30 am – 12:15 pm	**Prof. Wang Shu** Some Topics on Nonlinear Fluid-Dynamical Equations
12:30 pm – 2:30 pm	**LUNCH BREAK**
2:30 pm – 3:15 pm	**Prof. Jorge P. Zubelli** Inverse Problems for Parabolic Partial Differential Equations: An Application to Dupire's Model
3:15 pm – 3:30 pm	**Break**
3:30 pm – 4:15 pm	**Prof. Pierangelo Marcati** Nonlinear Maxwell-Schrödinger System and Quantum Magneto-Hydrodynamics in 3-D
4:15 pm – 4:45 pm	**COFFEE BREAK and DISCUSSION**
4:45 pm – 5:30 pm	**Prof. Weizhu Bao** Numerical Methods and Comparison for the Dirac Equation in the Nonrelativistic Limit Regime

International Conference on nonlinear Partial Differential Equations: Theories, Numerics and Applications (Day 2)

Date: 22nd May 2016 (Sunday)
Venue: Y304 (The Hong Kong Polytechnic University)

10:30 am – 10:45 am	**REGISTRATION**
10:45 am – 11:30 am	**Prof. Anton Arnold** Entropy Method for Hypocoercive BGK and Fokker-Planck Equations
11:30 am – 11:40 am	**Break**
11:40 am – 12:20 pm	**Prof. Shi Jin** Semiclassical Computational Methods for Quantum Dynamics with Band-crossing
12:30 pm – 2:30 pm	**LUNCH BREAK**
2:30 pm – 3:15 pm	**Prof. Donatella Marini** Serendipity Nodal VEM spaces
3:15 pm – 3:30 pm	**Break**
3:30 pm – 4:15 pm	**Prof. Massimo Fornasier** Learning and Sparse Control of Multiagent Systems
4:15 pm – 4:45 pm	**COFFEE BREAK and DISCUSSION**
4:45 pm – 5:30 pm	**Professor Zhongyi Huang** Bloch Decomposition Based Method for Quantum Dynamics in Periodic Media

International Conference on nonlinear Partial Differential Equations: Theories, Numerics and Applications (Day 3)

Date: 23rd May 2016 (Monday)
Venue: Y304 (The Hong Kong Polytechnic University)

10:30 am – 10:45 am	**REGISTRATION**
10:45 am – 11:30 am	**Prof. Xiaoping Wang** An Efficient Threshold Dynamics Method for Wetting on Rough Surfaces
11:30 am – 11:40 am	**Break**
11:40 am – 12:20 pm	**Prof. Zhouping Xin** On the Existence of Global Finite Energy Solutions to the Multi-Dimensional Compressible Navier-Stokes System with Degenerate Viscosities
12:30 pm – 2:30 pm	**LUNCH BREAK**
2:30 pm – 3:15 pm	**Prof. Christian Schmeiser** Kinetic Models of Chemotaxis
3:15 pm – 3:30 pm	**Break**
3:30 pm – 4:15 pm	**Prof. Paola Pietra** Quantum-Drift-Diffusion Model in a Hybrid Strategy for the Simulation of Electron Transport in Carbon Nanotubes
4:15 pm – 4:45 pm	**COFFEE BREAK and DISCUSSION**
4:45 pm – 5:30 pm	**Prof. Kazuo Aoki** Nonlinear Acoustic Wave Propagation in a Rarefied Gas: Numerical Analysis Based on Kinetic and Fluid Equations