

# The Institute of Mathematical Sciences The Chinese University of Hong Kong

## *JMS Workshop on Partial Differential Equations*

**February 3, 2012 (Friday) – February 4, 2012 (Saturday)**

Venue: Room 501a, 5/F, Academic Building No.1, CUHK

### PROGRAMME

DAY 1	February 3, 2012 (Friday)
08:45 – 09:00	<i>Registration</i>
<i>Session Chair</i>	<i>Zhouping XIN</i>
09:00 – 09:50	<b>Yaguang WANG</b> Stability of Contact Discontinuities in 3-D Compressible Steady Flow
09:50 – 10:10	<i>☞ Tea Break ☞</i>
<i>Session Chair</i>	<i>Xiaozhou YANG</i>
10:10 – 11:00	<b>Changjiang ZHU</b> Optimal Decay Rates to Conservation Laws with Diffusion-type Terms
11:00 – 11:50	<b>Xu ZHANG</b> The Weak Maximum Principle for a Class of Strongly Coupled Elliptic Differential Systems
11:50 – 13:50	<i>☞ Lunch ☞</i>
<i>Session Chair</i>	<i>Renjun DUAN</i>
13:50 – 14:40	<b>Huaiyu JIAN</b> Regularity for a Singular Monge-Ampere equation
14:40 – 15:30	<b>Huansong ZHOU</b> Some results on semilinear elliptic equations
15:30 – 16:00	<i>☞ Tea Break ☞</i>
<i>Session Chair</i>	<i>Juncheng WEI</i>
16:00 – 16:50	<b>Juan DAVILA</b> Radial solutions of entire elliptic equations with mixed powers
16:50 – 17:40	<b>Guilong GUI</b> Global well-posedness of the 3D inhomogeneous Navier-Stokes equations
18:15	<i>☞ Dinner ☞</i>

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DAY 2	February 4, 2012 (Saturday)
<i>Session Chair</i>	<i>Zhengan YAO</i>
09:00 – 09:50	<b>Zhong TAN</b> Z-Pinch 內爆等離子體二維三溫輻射磁流體動力學方程
09:50 – 10:20	<i>☞ Tea Break ☞</i>
<i>Session Chair</i>	<i>Yaguang WANG</i>
10:20 – 11:10	<b>Xiaoping WANG</b> Wetting and contact angle hysteresis
11:10 – 12:00	<b>Jin CHENG</b> Unique Continuation on the Analytic Curve and its Applications to Inverse Problems
12:00 – 13:50	<i>☞ Lunch ☞</i>
<i>Session Chair</i>	<i>Zhong TAN</i>
14:00 – 14:50	<b>Yinbin DENG</b> Nodal soliton solutions for quasilinear Schrodinger equations with critical exponent
14:50 – 15:40	<b>Chi Hin CHAN</b> Non-uniqueness of Leray-Hopf type solutions to the Navier-Stokes equation on a two dimensional negatively curved Riemannian manifold
15:40 – 16:10	<i>☞ Tea Break ☞</i>
<i>Session Chair</i>	<i>Tong YANG</i>
16:10 – 17:00	<b>Xiaoping YANG</b> On Some Properties of Sub-Elliptic Equations
18:50	<i>☞ Workshop Dinner ☞</i>

*This workshop was supported by project “Some Problems in Flows Past a Nozzle” (RGC Ref. No. CUHK404208).*