The Institute of Mathematical Sciences
The Chinese University of Hong Kong

IMS Workshop on PDEs
January 25-26, 2019 (Friday & Saturday)

Venue: G03, G/F, Academic Building No. 1, CUHK

January 25, 2019 (Friday)

08:45 – 08:55   *REGISTRATION*
08:55 – 09:00   *Opening Remarks by **Professor Zhouping XIN***

Session Chair: *Professor Zhouping XIN*
09:00 – 09:55   <u>Plenary talk</u> by **Professor Tong YANG** (City University of Hong Kong)
Exterior Problem of the Linear Vlasov-Poisson-Boltzmann System

10:00 – 10:30   *TEA RECEPTION [5/F] & GROUP PHOTO [ROOF]*

Session Chair: *Professor Yachun LI*
10:30 – 11:20   **Professor Huicheng YIN** (Nanjing University)
On the weak shocks and strong shocks for the supersonic flow past sharp bodies

11:20 – 12:10   **Professor Chunpeng WANG** (Jilin University & IMS, CUHK)
Free boundary problems of degenerate potential equations and sonic jet flows from convergent nozzles

12:10 – 14:00   *LUNCH*

Session Chair: *Professor Yinbin DENG*
14:00 – 14:50   **Professor Hua CHEN** (Wuhan University)
Estimates of Eigenvalues for Subelliptic Operators on Compact Manifolds

14:50 – 15:40   **Professor Weike WANG** (Shanghai Jiao Tong University)
Global Solution of the Stokes Approximation Equations in Three-Dimensions

15:40 – 16:00   *TEA RECEPTION [5/F]*

Session Chair: *Professor Chunlai MU*
16:00 – 16:50   **Professor Feng XIE** (Shanghai Jiao Tong University)
Magnetic effects on stability of boundary layer

16:50 – 17:40   **Professor Chunjing XIE** (Shanghai Jiao Tong University)
Structural stability of Poiseuille flows in nozzles

18:15   *BANQUET*

January 26, 2019 (Saturday)

Session Chair: *Professor Renjun DUAN*
09:00 – 09:50   **Professor Ming MEI** (Champlain College St.-Lambert and McGill University)
Traveling Waves and Global Stability to Time-Delayed Reaction-Diffusion Equations with Degenerate Diffusion

09:50 – 10:40   **Professor Hongjun YU** (South China Normal University)
The Vlasov-Poisson-Landau system near a local Maxwellian

10:40 – 11:00   *TEA RECEPTION [5/F]*

Session Chair: *Professor Hongxia LIU*
11:00 – 11:50   **Professor Shangkun WENG** (Wuhan University)
Subsonic and transonic shock flows in three dimensional bounded nozzles

12:00 – 14:00   *LUNCH*

Session Chair: *Professor Yong YU*
14:00 – 14:50   **Professor Zhi-An WANG** (Hong Kong Polytechnic University)
Kinetics models of chemotaxis with temporal sensing mechanism: the parabolic limit and its dynamics

14:50 – 15:40   **Dr. Shuangqian LIU** (Jinan University & CUHK)
The dilute gas flow in a finite channel

15:40 – 16:00   *TEA RECEPTION [5/F]*

Session Chair: *Professor Xiangao LIU*
16:00 – 16:50   **Dr. Fei HOU** (Nanjing Normal University)
Global smooth solution to nonlinear wave equations with non-compact data

16:50 – 17:40   **Professor Zhenhua GUO** (Northwest University)
Some results on compressible non-Newtonian fluids

~~~ End of Workshop ~~~

Last updated: 24 Jan 2019, 12:30