The Institute of Mathematical Sciences Department of Mathematics **The Chinese University of Hong Kong**

International Workshop on PDEs May 6-9, 2019 (Monday-Thursday)

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

May 6 (Monday)

08:45 - 09:05	REGISTRATION	
09:05 - 09:15	Opening Remarks by Professor Jun ZOU	
Session Chair:	Professor Zhouping XIN	
09:15 – 10:15	Professor Tong YANG (City University of Hong Kong)	
[Plenary talk]	Some studies on the Boltzmann equation without angular cutoff	
10:15 - 10:30	TEA BREAK [5/F]	
10:30 – 11:15	Professor David Christophe Luc GERARD-VARET (Université Paris Diderot) Analysis of the effective viscosity of dilute suspensions	
11:15 – 12:00	Professor Yasunori MAEKAWA (Kyoto University) On stability of physically reasonable solutions to the two-dimensional Navier-Stokes equations	
12:00 - 14:00	LUNCH	
Session Chair:	Professor Tong YANG	
14:00 - 14:45	Professor Huijiang ZHAO (Wuhan University)	
	On the Vlasov-Maxwell-Boltzmann systems	
14:45 – 15:30	Professor Dong LI (The Hong Kong University of Science and Technology) Sharp Gevrey regularity for supercritical surface quasi-geostrophic equations	
15:30 - 15:50	TEA BREAK [5/F]	
15:50 – 16:35	Professor Dongho CHAE (Chung-Ang University) Liouville type theorems in the stationary Navier-Stokes and related equations	
16:30 – 18:00	FREE DISCUSSIONS	

May 7 (Tuesday)

Session Chair	Professor Reniun DUAN
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- 09:00 09:45 **Professor Yoshiyuki KAGEI** (Tokyo Institute of Technology) Stability of spatio-temporal periodic states of the compressible Navier-Stokes equations
- 09:45 10:15 GROUP PHOTO [ROOF] & TEA BREAK [5/F]
- 10:15 11:00 **Professor Zhen LEI** (Fudan University) *Rigidity of the Navier-Stokes equations*
- 11:00 11:45Professor Jinhae PARK (Chungnam National University)Some mathematical properties of Ferroelectric Liquid Crystals
- 11:45 14:00 LUNCH
- Session Chair:Professor Yoshiyuki KAGEI14:00 14:45Professor David Jean Michel LANNES (Université de Bordeaux)
The shoreline problem for the Green-Naghdi equations
- 14:45 15:30 **Dr. Giacomo CANEVARI** (University of Verona) Design of effective bulk potential for nematic liquid crystals via homogenisation
- 15:30 15:50 TEA BREAK [5/F]
- 15:50 16:35**Professor Pin YU** (Tsinghua University)Global behaviors for Maxwell-Klein-Gordon equations with arbitrary large data
- 18:00 20:00 BANQUET at Chung Chi College Staff Restaurant

May 8 (Wednesday)

Session Chair:	Professor Yong YU
09:00 - 10:00	Professor Chun LIU (Illinois Institute of Technology)
[Plenary Talk]	Thermal Effects in General Diffusion: An Energetic Variational Approach
10:00 - 10:15	TEA BREAK [5/F]
10:15 – 11:00	Professor Changyou WANG (Purdue University) Suitable weak solutions of Beris-Edwards Q-tensor system for nematic liquid crystal flow
11:00 - 11:45	Professor Jinkai LI (South China Normal University) Entropy-bounded solutions to compressible Navier-Stokes equations with far field vacuum
11:45 – 14:00	LUNCH
Session Chair:	Professor Chun LIU
14:00 – 14:45	Professor Zhi-Qiang WANG (Utah State University) Convergence in power law nonlinear scalar field equations
14:45 – 15:30	Professor Ning JIANG (Wuhan University) On the Ericksen-Leslie's hyperbolic model for liquid crystals
15:30 – 15:50	TEA BREAK [5/F]
15:50 – 16:35	Professor Shih-Hsien YU (National University of Singapore) The pointwise structure of the Green's function of a heat equation with a BV coefficient

May 9 (Thursday)

09:00 – 12:00 FREE DISCUSSIONS

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