International Conference on the Mathematical Theory of Liquid Crystals and Related Topics

June 15-19, 2014 | Shanghai, China

Sunday, June 15

09:00 – 09:40			Registration
09:45 – 10:00			Opening Remarks
10:00 – 11:00	Robert Hardt	Rice University	Plateau Problems in Singular Spaces
11:00 – 13:00			Lunch
13:00 – 14:00	Pingwen ZHANG	Peking University	Defects of Liquid Crystals
14:00 – 15:00	Søren Fournais	University of Aarhus	Counter-examples to Strong Diamagnetism
15:00 – 15:30			Coffee Break
15:30 – 16:30	Apala Majumdar	University of Bath	Stability of Radial Solutions in the Landau-de Gennes Theory: Interplay between Temperature and Geometry
16:30 – 17:30	Shijin DING	South China Normal University	On the Dynamical Q-tensor Models of Liquid Crystals

Monday, June 16

09:30 – 10:00			Registration
10:00 – 11:00	Bernard Helffer	University of Paris XI	The Ginzburg-Landau Functional with Vanishing Magnetic Field (after K. Attar and Helffer-Kachmar)
11:00 – 13:00			Lunch
13:00 – 14:00	Patricia Bauman	Purdue University	Energy-Minimizing Nematic Elastomers
14:00 – 15:00	Changyou WANG	University of Kentucky	On Nematic Liquid Crystal Flows in Dimension Three
15:00 – 15:30			Coffee Break
15:30 – 16:30	Yaniv Almog	Louisiana State University	Global and Local Stability of the Normal State of Superconductors under the Effect of Strong Electric Current
16:30 – 17:30	Zhen LEI	Fudan University	Global Well-posedness of Incompressible Elastodynamics in 2D

Wednesday, June 18

09:30 – 10:00			Registration
10:00 – 11:00	Etienne Sandier	University of Paris XII	Logarithmic Interaction Energy for Infinitely Many Points in the Plane, Coulomb Gases and Weighted Fekete Sets
11:00 – 13:00			Lunch
13:00 – 14:00	Maria-C. Calderer	University of Minnesota	Mathematical Analysis of Liquid Crystal Models in Biology
14:00 – 15:00	Daniel Phillips	Purdue University	Regularity of Minimizers to a Constrained Q-tensor Energy for Liquid Crystals
15:00 – 15:30			Coffee Break
15:30 – 16:30	Jinhae Park	Chungnam National University	Variational Problems in Smectic Liquid Crystals
16:30 – 17:30	Hao WU	Fudan University	Well-posedness and Stability of a Hydrodynamic System Modeling Vesicle and Fluid Interactions

Thursday, June 19

09:30 – 10:00			Registration
10:00 – 11:00	I-Liang CHERN	National Taiwan University	On Ground States of Spin-1 Bose-Einstein Condensates w/o External Magnetic Field
11:00 – 13:00			Lunch
13:00 – 14:00	Mike Shelley	New York University	Biologically Active Nematics
14:00 – 15:00	Tai-Chia LIN	National Taiwan University	New PNP Type Systems for Ionic Liquids
15:00 – 15:30			Coffee Break
15:30 – 16:30	Arghir Zarnescu	University of Sussex	Tensorial Features and Energetic Stability of Point Defects in the Q-tensor Theory of Nematic Liquid Crystals
16:30 – 17:30	Chun LIU	Pennsylvania State University	Energetic Variational Approaches: General Diffusion and Stochastic Process
17:30 – 17:45			Closing Remarks