

Workshop on Dissipated System



Duke Kunshan University

Friday 10/22/2021 - Sunday 10/24/2021

10/22 (Friday)	Morning Chair: Jian-Guo Liu. Afternoon Chair: Xiaoqian Xu. Venue: Innovation Building 2071, Zoom Meeting ID: 913 9549 7173 Passcode: 718267	
Time	Speaker	Title (or activities)
8:30-8:35		Registration & Reception
8:35-8:40		Opening Remark
8:40-9:25	Zhouping Xin (Chinese University of Hong Kong)	Compressible Navier-Stokes Equations, Vacuum and Entropy
9:30-10:15	Ping Zhang (Chinese Academy of Sciences)	Global hydrostatic approximation of hyperbolic Navier-Stokes system with small Gevrey class 2 data
10:20-12:00		Free Discussion
12:00-2:00		Lunch
2:00-2:45	Jinkai Li (South China Normal University)	Entropy-bounded solutions to the compressible Navier-Stokes equations with far field vacuum
2:50-3:35	Yu Feng (Peking University)	Suppression of phase separation and epitaxial thin film blow up by mixing
3:40-4:00		Coffee Break
4:00-4:45	Haitao Wang (Shanghai Jiao Tong University)	1-D Navier-Stokes equation with BV data: well-posedness and wave propagation
4:50-5:35	De Huang (Peking University)	Potential singularity formation of the 3D axisymmetric Navier-Stokes equations with vanishing numerical diffusion
6:30-8:30		Dinner

10/23 (Saturday)	Morning Chair: Weike Wang. Afternoon Chair: Zhifei Zhang. Venue: Innovation Building 2071, Zoom Meeting ID: 913 9549 7173 Passcode: 718267	
Time	Speaker	Title (or activities)
9:00-9:45	Xiuqing Chen (Sun Yat-Sen University)	Global Existence and Uniqueness analysis of Reaction-Cross-Diffusion Systems
9:50-10:35	Min Tang (Shanghai Jiao Tong University)	Fokker-Plank system for movement of micro-organism population in confined environment
10:40-11:00		Coffee Break
11:00-11:45	Zhaoyin Xiang (University of Electronic Science and Technology of China)	The stability analysis of a 2D Keller-Segel-Navier-Stokes system in fast signal diffusion
11:50-2:00		Lunch
2:00-2:45	Shi Jin (Shanghai Jiao Tong University)	Hypocoercivity based local sensitivity analysis for multiscale kinetic equations with uncertainties
2:50-3:35	Fei Wang (Shanghai Jiao Tong University)	The linearized Vlasov and Vlasov-Fokker-Planck equations in a uniform magnetic field
3:35-4:10		Coffee Break, Group Photo
4:10-4:55	Binbin Shi (Shanghai Jiao Tong University)	Global well-posedness for a generalized Keller-Segel system with full degenerate dissipation and mixing
5:00-5:45	Ruizhao Zi (Central China Normal University South)	Linear stability of the Couette flow in the 3D isentropic compressible Navier-Stokes equations
6:30-8:30		Dinner

10/24 (Sunday)	Morning Chair: Shi Jin. Venue: Innovation Building 2071, Zoom Meeting ID: 913 9549 7173 Passcode: 718267	
Time	Speaker	Title (or activities)
9:00-9:45	Yuan Lou (Ohio State University)	On principal eigenvalues for 2nd order elliptic and time-periodic parabolic operators
9:50-10:35	Chunjing Xie (Shanghai Jiao Tong University)	Uniform structural stability of Poiseuille flows in a pipe under Navier boundary conditions
10:40-11:00		Coffee Break
11:00-11:45	Zhenfu Wang (Peking University)	Gaussian fluctuations for interacting particle systems with singular kernels
12:00-2:00		Lunch