

# DAY 1

Jan 6 (Sat)			
8:20-8:50	Registration		
8:50-9:00	Opening		
9:00-9:50	<b>Jong-Shenq Guo (R202)</b> <i>Some recent developments on a singular predator-prey model</i>		
9:50-10:20	Tea break		
MS1 (Differential Equations and Applications) (R202)		MS2 (Semilinear Elliptic Equations with Applications) (R101)	
10:20-10:50	Chiu-Yen Kao <i>Extremal Spectral Gaps for Periodic Schrödinger Operators</i>	10:20-10:50	Tsung-Fang Wu <i>Existence and multiplicity of nontrivial solutions for a biharmonic equation</i>
10:50-11:20	Chia-Chieh Jay Chu <i>Volumetric Variational Problems for Partial Differential Equations on Manifolds</i>	10:50-11:20	Hsin-Yuan Huang <i>Bubbling Solutions for the Liouville System</i>
11:30-12:00	Ming-Cheng Shiue <i>Convergence and Stability of the MAC scheme for Stokes/Darcy coupling problems based on finite difference methods</i>	11:30-12:00	Ting-Jung Kuo <i>A connection of generalized Lamé equation and the mean field equation</i>
12:00-12:30	Wei-Fan Hu <i>Spontaneous autophoretic motion of colloidal particles in two-dimensional space</i>	12:00-12:30	Wen Yang <i>On the uniqueness of the steady state in a Keller-Segel model</i>
12:30-14:00	Lunch		
14:00-14:50	<b>Jiahong Wu (R202)</b> <i>Partial differential equations related to fluids with partial or fractional dissipation</i>		
14:50-15:20	Tea break		
MS3 (Reaction-Diffusion Equations and Related Topics) (R202)		MS4 (Kinetic Theory and Gas Dynamics)(R101)	
15:20-15:50	Chao-Nien Chen <i>Localized Patterns and Waves in FitzHugh-Nagumo type systems</i>	15:20-15:50	Kazuo Aoki <i>Shock-wave structure for a polyatomic gas with large bulk viscosity based on kinetic theory</i>
15:50-16:20	Chih-Chiang Huang <i>Wave Interaction for Reaction-Diffusion Equations with Triple-Well Potential</i>	15:50-16:20	I-Kun Chen <i>Regularity for diffuse reflection boundary problem to the stationary linearized Boltzmann equation in a convex domain</i>
16:30-17:00	Tien-Tsan Shieh <i>Ground States of Spin-1 Bose-Einstein Condensates, phase transitions and symmetry breaking</i>	16:30-17:00	Jin-Cheng Jiang <i>On the global dynamics of the Boltzmann equation</i>
17:00-17:30	Jann-Long Chern <i>Effect of Singular Points on Some Parabolic Evolutions and Elliptic Equations</i>	17:00-17:30	Hung-Wen Kuo <i>Effect of abrupt change of the wall temperature in the kinetic theory</i>
17:40--	Reception		

DAY 2

Jan 7 (Sun)			
9:00-9:50	Masahiro Yamamoto (R202) <i>Inverse problems for viscoelasticity systems by Carleman estimates</i>		
9:50-10:20	Group photo, Tea Break		
MS5 (Fluid equations and Schrodinger equations) (R202)		MS6 (Mathematical Biology) (R101)	
10:20-10:50	Jinkai Li <i>Global well-posedness of the anisotropic primitive equations</i>	10:20-11:10	Pierre Magal <i>Forest population dynamics models</i>
10:50-11:20	Jinmyoung Seok <i>Ground states to relativistic quantum mean field equations</i>	11:20-11:50	Chiun-Chang Lee <i>Concentration phenomena and curvature effects on the structure of thin electrical double layers</i>
11:30-12:00	Ching-Hsiao Cheng <i>Stokes expansions and asymptotic models of water waves</i>	11:50-12:20	Chi-Jen Wang <i>Structural and Dynamical Analysis of Social Networks Using Isospectral Reductions</i>
12:00-12:30	Meng-Kai Hong <i>Global Well-posedness of Cauchy problem for Compressible Euler equations in Transonic Nozzle Flow</i>	12:20-12:50	Ching-cher Yan <i>Effcient and flexible implementation of Langevin simulation for gene burst production</i>
12:30-14:00	Lunch		
14:00-14:50	Hideo Kozono <i>Strong solutions of the Navier-Stokes equations based on the maximal Lorentz regularity theorem in Besov spaces</i>		
14:50-15:20	Tea Break		
MS7 (Dynamical Systems and Differential Equations) (R202)		MS8 (Inverse Problems and Related Questions) (R101)	
15:20-15:50	Kuo-Chang Chen <i>Variational nature of Keplerian orbits</i>	15:20-15:50	Ching-Lung Lin <i>Quantitative estimate for the Lamé system with rough coefficients</i>
15:50-16:20	Shih-Feng Shieh <i>Structure-Preserving Flows of Symplectic Matrix Pairs</i>	15:50-16:20	Kuo-Ming Lee <i>Inverse transmission scattering problem via a Dirichlet-to-Neumann map</i>
16:30-17:00	Yi-Chiuan Chen <i>A Note on Holomorphic Shadowing for Hénon Maps</i>	16:30-17:00	Rulin Kuan <i>Strong unique continuation for two-dimensional anisotropic elliptic systems</i>
17:00-17:30	Ya-Lun Tsai <i>Relative Equilibria of the Planar Four-Vortex Problem</i>	17:00-17:30	Yi-Hsuan Lin <i>The nonlocal Calderòn problem</i>