

Wednesday, November 7 SAS Hall 4201	Multiscale Computations for Kinetic and Related Problems
9:00 - 9:20	<i>Welcome Coffee (SAS Hall 4104)</i>
9:20 - 9:30	Alina Chertock (North Carolina University) <i>Welcoming Remarks</i>
MORNING SESSION	Chair: Alina Chertock (North Carolina University)
9:30 - 10:10	Lorenzo Pareschi , (University of Ferrara) Multiscale control variate methods for kinetic equations with random inputs
10:15 - 10:55	Jianfeng Lu , (Duke University) Efficient algorithms for multiscale kinetic equations based on random sampling
11:00 - 11:30	BREAK
11:30 - 12:10	Francis Filbet , (Paul Sabatier University, Toulouse III) Rigorous derivation of the nonlocal reaction-diffusion FitzHugh-Nagumo system
12:15 - 2:00	LUNCH
AFTERNOON SESSION	Chair: Lorenzo Pareschi , (University of Ferrara)
2:00 - 2:40	Yuhua Zhu , (University of Wisconsin-Madison) The Vlasov Fokker Planck equation with high dimensional parametric forcing term
2:45 - 3:15	BREAK
3:15 - 3:55	Alexander Kurganov , (Southern University of Science and Technology and Tulane University) Asymptotic preserving schemes for Euler equations of gas dynamics and shallow water equations with Coriolis forces
4:00 - 5:00	Working groups, discussion

Thursday, November 8 SAS Hall 4201	Multiscale Computations for Kinetic and Related Problems
9:00 - 9:30	<i>Welcome Coffee (SAS Hall 4104)</i>
MORNING SESSION	Chair: Alexander Kurganov , (Southern University of Science and Technology and Tulane University)
9:30 - 10:10	Maria Lukacova , (University of Mainz) Convergence analysis of compressible flows: asymptotic preserving error estimates
10:15 - 10:55	Jingmei Qiu , (University of Delaware) High order semi-implicit IMEX WENO scheme for the Euler system with all-Mach number
11:00 - 11:30	BREAK
11:30 - 12:10	Jingwei Hu , (Purdue University) Asymptotic-preserving and positivity-preserving implicit-explicit schemes for the stiff BGK equation
12:15 - 2:00	LUNCH
AFTERNOON SESSION	Chair: Maria Lukacova , (University of Mainz)
2:00 - 2:40	Ruiwen Shu , (University of Maryland) A second-order asymptotic-preserving and positivity-preserving exponential Runge-Kutta method for a class of stiff kinetic equations
2:45 - 5:00	FREE AFTERNOON
6:00	DINNER

Friday, November 9 SAS Hall 4201	Multiscale Computations for Kinetic and Related Problems
9:00 - 9:30	<i>Welcome Coffee (SAS Hall 4104)</i>
MORNING SESSION	Chair: Francis Filbet , (Paul Sabatier University, Toulouse III)
9:30 - 10:10	Liu Liu , (University of Texas at Austin) Asymptotic analyses for the study of asymptotic-preserving schemes for two-species collisional plasma with disparate masses
10:15 - 10:55	Li Wang , (Univeristy of Minnesota) Asymptotic preserving scheme for nonlinear grey radiative transfer equation
11:00 - 11:30	BREAK
11:30 - 12:10	Doron Levy , (University of Maryland) Modeling the chemotherapy-induced selection of drug-resistant traits during tumor growth
12:15 - 2:00	LUNCH
AFTERNOON SESSION	Chair: Jianfeng Lu , (Duke University)
2:00 - 2:40	Henning Struchtrup , (University of Victoria) Grad's method of moments, and beyond
2:45 - 3:15	BREAK
3:15 – 3:55	Rodney Fox , (Iowa State University) Hyperbolic quadrature method of moments
4:00 - 5:00	Working groups, discussion

Saturday, November 10 SAS Hall 4201	Multiscale Computations for Kinetic and Related Problems
9:00 - 9:30	<i>Welcome Coffee (SAS Hall 4104)</i>
MORNING SESSION	Chair: Alina Chertock (North Carolina University)
9:30 - 11:30	Working groups, discussion