Tuesday, April 18	Selected topics in transport phenomena: deterministic and probabilistic aspects
9:00 - 9:25	*BREAKFAST (hosted by CSCAMM)*
MORNING SESSION	*Chair:* **Eitan Tadmor** (University of Maryland)
9:25 – 9:30	**Eitan Tadmor** (University of Maryland) Welcoming Remarks
9:30 - 10:10	**Roman Shvydkoy** (University of Illinois at Chicago) Fractional parabolic models arising in flocking dynamics and fluids
10:15 - 10:55	**Eric Vanden-Eijnden** (New York University) Spatiotemporal self-organization of fluctuating bacterial colonies
11:00 - 11:30	*COFFEE BREAK*
11:30 - 12:10	**Benjamin Gess** (Max Planck Institute for Mathematics in the Sciences) Well-posedness and regularization by noise for scalar conservation laws
12:15 - 2:00	*LUNCH (hosted by CSCAMM)*
AFTERNOON SESSION	*Chair:* **Pierre-Emmanuel Jabin** (University of Maryland)
2:00 - 2:40	**Martina Hofmanova** (Technical University Berlin) Stationary solutions to the compressible Navier-Stokes system driven by stochastic forces
2:45 - 3:15	*COFFEE BREAK*
3:15 - 3:55	**Maria Lukacova** (University of Mainz) Convergence of a mixed finite element-finite volume scheme for the compressible Navier-Stokes system via dissipative measure-valued solutions

Wednesday, April 19	Selected topics in transport phenomena: deterministic and probabilistic aspects
9:00 - 9:30	*BREAKFAST (hosted by CSCAMM)*
MORNING SESSION	*Chair:* **Maria Lukacova** (University of Mainz)
9:30 – 10:10	**René Carmona** (Princeton University) Mean Field Games: theory and applications
10:15 - 10:55	**François Delarue** (University of Nice Sophia Antipolis) Fluctuations and deviations in mean field games
11:00 - 11:30	*COFFEE BREAK*
11:30 - 12:10	**Sandra Cerrai** (University of Maryland) Large deviations for nonlinear SPDEs with vanishing noise correlation
12:15 - 2:00	*LUNCH (hosted by CSCAMM)*
AFTERNOON SESSION	*Chair:* **Jacob Bedrossian** (University of Maryland)
2:00 - 2:40	**Alina Chertock** (North Carolina State University) Numerical methods for hyperbolic systems of PDEs with uncertainties
2:45 - 3:15	*COFFEE BREAK*
3:15 - 3:55	**Arnulf Jentzen** (ETH Zurich) On numerical approximation algorithms for high-dimensional nonlinear PDEs, nonlinear SDEs, and high-dimensional nonlinear FBSDEs

Thursday, April 20	Selected topics in transport phenomena: deterministic and probabilistic aspects
9:00 - 9:30	*BREAKFAST (hosted by CSCAMM)*
MORNING SESSION	*Chair:* **Alina Chertock** (North Carolina State University)
9:30 - 10:10	**Mark Freidlin** (University of Maryland) Asymptotic problems for PDE's and a motion on the simplex of invariant measures
10:15 - 10:55	**Jianfeng Lu** (Duke University) Stochastic algorithms for high dimensional transport systems
11:00 - 11:30	*COFFEE BREAK*
11:30 - 12:10	**Michele Coti Zelati** (University of Maryland) Stochastic perturbations of passive scalars and small noise inviscid limits
12:15 - 2:00	*LUNCH*
AFTERNOON SESSION	*Chair:* **Konstantina Trivisa** (University of Maryland)
2:00 - 2:40	**Pierre-Emmanuel Jabin** (University of Maryland) Critical non Sobolev regularity for continuity equations with rough force fields
2:45 - 3:15	*COFFEE BREAK*
3:15 - 3:55	**Anna Mazzucato** (Pennsylvania State University) Loss of regularity in transport equations
4:00 – 4:40	**Li Wang** (SUNY Buffalo) Uniform regularity for linear kinetic equations with random input based on hypocoercivity
EVENING ACTIVITIES	
7:00	*DINNER*

Friday, April 21	Selected topics in transport phenomena: deterministic and probabilistic aspects
9:00 - 9:30	*BREAKFAST (hosted by CSCAMM)*
MORNING SESSION	*Chair:* **Dave Levermore** (University of Maryland)
9:30 - 10:10	**Jacob Bedrossian (**University of Maryland**)** Landau damping and nonlinear echoes
10:15 - 10:55	**Christian Seis** (University of Bonn) Optimal stability estimates for continuity equations
11:00 - 11:30	*COFFEE BREAK*
11:30 - 12:10	**Gautam Iyer** (Carnegie Mellon University) Anomalous diffusion in passive scalar transport
12:15	*CLOSING*