

TAGMaC Schedule - Fall 2019

9:30 - 10:00	Check In and Breakfast		
	Room 1 - Phillips 367	Room 2 - Phillips 381	Room 3 - Phillips 385
	MS1: Analysis of PDEs	MS2: Algebraic and Complex Geometry	MS3: Mathematical Biology
10:00 - 10:25	Russell Arnold - UNC <i>Hyperbolic Systems of Conservation Laws</i>	Paul Kruse - UNC <i>Stability Conditions on K3 surfaces and Some Wall Crossings</i>	Ben Vadala-Roth - UNC <i>Stabilization of the Immersed Boundary Method for Finitely Thin Structures</i>
10:25 - 10:50	Claire Kiers - UNC <i>A Bifurcation Analysis of Standing Pulses and the Maslov Index</i>	Georgy Scholten - NCSU <i>Log Concave MLE</i>	John Lagergren - NCSU <i>Learning PDEs from Noisy Spatiotemporal Data</i>
10:50 - 11:15	Blake Keeler - UNC <i>Spectral Asymptotics on Manifolds without Conjugate Points</i>	Hunter Dinkins - UNC <i>Quasimaps to a Nakajima Quiver Variety</i>	Andrew Ford - UNC <i>Simulating Polymer-Like Substances in Biology</i>
11:15 - 12:15	Plenary Speaker: Mette Olufsen NCSU <i>How mathematical techniques can be used to better understand cardiovascular dynamics in health and disease</i>		
12:15 - 1:15	Lunch		
	MS4: Mathematical Modeling	MS5: Algebraic Structures	MS6: Statistics and Probability
1:15 - 1:40	Gracie Conte - UNC <i>Discretizing Schrodinger Type Operators with Spectral Accuracy on Quantum Graphs</i>	Thomas Tran - Duke <i>Secondary Terms in Asymptotics for the Number of Zeros of Quadratic Form</i>	Steven Gilmore - NCSU <i>A Model of Debt with Bankruptcy Risk and Currency Devaluation</i>
1:40 - 2:05	Kathrine Daftari & Neall Caughman - UNC <i>Using Stochastic Models to Understand Single Particle Microrheology</i>	Logan Tatham - UNC <i>Representations of Link Invariants and their Link to Quantum Groups</i>	Oliver Tough - Duke <i>The Fleming-Viot Particle System with McKean-Vlasov Dynamics</i>
2:05 - 2:30	Dylan Bruney - UNC <i>Faxen's First Law: The Challenging Exercise of Validating a 100 Year Old Theorem</i>	Grant Barkley - NCSU <i>Coxeter Groups and the Lattice of Total Orders</i>	Ben Hollering - NCSU <i>Identifiability in Phylogenetics using Algebraic Matroids</i>
2:30 - 2:55		Stephen Lacina - NCSU <i>Poset Topology of S-Weak Order</i>	Jane Coons - NCSU <i>Maximum Likelihood Estimation in Independence Models with Structural Zeros</i>