AMCS-MATH Day, Saturday September 7, 2024, room 110 MLH

- 8:15am (3 MLH, Muhly lounge) Breakfast pastries from Deluxe Bakery and coffee from Cortado
- 9:00am Welcoming remarks
- 9:15am (110 MLH) Garrett Mason : Asymptotic Reduction of Competitive Inhibitor Stimulation Model
- 9:15am (118 MLH) George Clare Kennedy : Using Topological Data Analysis for Clustering Aptamers by Site Affinity
- 9:35am (110 MLH) Yuan Yao : The Nonconforming Finite Element Method for a Stokes Variational Inequality
- 9:35am (118 MLH) Matthew Barber : Category Theory via Legendrian Knots
- 9:55am (110 MLH) Ziqing Lu : Optimal cost-constrained adversarial attacks for multiple agent systems
- 9:55am (118 MLH) Shashank P. Singh: Understanding Hopf Algebra Representations through Quivers
- 10:15am Rob Falgout (LLNL) : Multigrid Methods in Space and Time for Extreme-scale Scientific Computing
- 11:00am Yao Yao (via zoom) : Optimization for Fairness-aware Machine Learning
- 11:20am Jessa Rhea : Disaster Response on a Network with Stochastic Demand and Uncertain Edge Accessibility
- 11:40am Joe Starr : The Tanglenomicon: Tabulation of two string tangles
- 12:00pm (3 MLH, Muhly lounge) Lunch from robertasitaliandelicacies.com
- 1:30pm Natalie Randall : Distributionally Robust Generator Scheduling for Power Grids with Storage and Wind Energy Uncertainty
- 1:50pm Jose Beltran Lizarazo : Compensated compactness and applications to hyperbolic conservation laws
- 2:10pm Elise Askelsen : Actions of Hopf-Ore Extensions on Path Algebras
- 2:30pm Ying Liu : The Emergence of Spatiotemporal Patterns in Dynamical Systems
- 2:50pm Jinyang Wu : Regularity of viscosity solutions of the sigma-k-Yamabe type problem for k > n/2
- 3:10pm Quentin Chediak : Starting Approximations for Partitioned ODEs
- 3:30pm Kerry Tarrant : Coupled pump-leak equation system for modeling of ion & cell volume stabilization
- 3:50pm Ibrahim Emirahmetoglu : Behavioral Models in Game Theory
- 4:10pm Casey Stone : Existence and Stability of Traveling Wave Solutions in Systems of PDEs
- 4:30pm Niki Amaraweera Kalutotage : Relative solidity results and their applications to computations of II₁ factors invariants
- 4:50pm Concluding remarks