AMCS-MATH Day, Saturday August 26, 2023, room 110 MLH

- 8:15am (3 MLH, Muhly lounge) Breakfast pastries and drinks
- 9:00am Welcoming remarks
- 9:15am Natalie Randall: *Building a Stochastic Program for a Power System*
- 9:15am (118 MLH) Jinyang Wu (DiffG): *A new renormalized volume type invariant*
- 9:35am Jessa Rhea: *A Covering Model for Multi-Period Mobile Facility Location and Routing with Stochastic Demand*
- 9:35am (118 MLH) Jacob Van Grinsven (Alg): *Hopf Actions on Algebras*
- 9:55am Joey Small: *Initial Value Problems, Starting Approximations, and Traveling Backwards in Time*
- 9:55am (118 MLH) Joe Starr (Top): *The Tanglenomicon: Tabulation of two string tangles*
- 10:15am Umesh Arampath: *Deep Learning applications in Molecular Property Prediction Tasks*
- 10:35am Adriana Fernandez (An): *An exposition on von Neumann algebras*
- 10:55am Quentin Chediak: *Starting Approximations for Implicit Runge-Kutta methods*
- 11:15am Rebecca Sorsen (Top): *Birman-Ko-Lee Left Canonical Form and its Applications*
- 11:35am Ibrahim Emirahmetoglu: *Using Second-Order Information in Training Autoencoders*
- 11:55am (3 MLH, Muhly lounge) Lunch break Italian style
- 1:30pm Jose Beltran Lizarazo (PDE): *An introduction to the compensated compactness method and applications to hyperbolic conservation laws*
- 1:50pm Jingchao Gao: *Outlier Detection for Generative Models with Performance Guarantees*
- 2:10pm Fatou Ndow (MBio): *Global Synchronization of Nonlinear and Non-Diffusively Coupled Oscillators*
- 2:30pm Breanna Guppy: *Determining Metabolic Fluxes from Metabolomics and Stable Isotope Tracing Data*
- 2:50pm Margarita Bustos Gonzalez (Alg): *The Space of Holomorphic Differentials*
- 3:10pm Yao Yao: *Primal-Dual Hybrid Gradient Methods for Smooth Semi-Infinite Programming with Applications in Fairness-aware Machine Learning*
- 3:30pm Michael Davis (An): *Rigidity for von Neumann Algebras of Graph Product Groups*
- 3:50pm Ying Liu: *Semi-Implicit Neural ODE for Graph Neural Diffusion*
- 4:10pm Anh Phan (MBio): *Robustness of Mixed Mode Oscillations in three-timescale coupled Morris-Lecar neurons*
- 4:35pm Concluding remarks