NUMS 2024

Northfield Undergraduate Mathematics Symposium

3:15-3:20pm | Welcome

3:20-3:35pm | **Barry Han (Carleton)**
Exploring Social Bias in Downstream Applications of Text-to-Image Foundation Models

3:40-3:55pm | **Akash Ganguly (Carleton)**
Ideals Preserved by Changes of Coordinates in Positive Characteristic

4:00-4:15pm | **Mackenzie Amann and Liam Gallagher (St. Olaf)**
A New Graph Move on Higher Rank Graphs that Preserves the Morita Equivalence of C*-Algebras

4:20-4:35pm | **Cynthia Leng (Carleton)**
Narrative Analysis of True Crime Podcasts With Knowledge Graph-Augmented Large Language Models

4:40-4:55pm | **Nzingha Joseph (Carleton)**
Infinite Free Resolutions of Numerical Semigroup Algebras

5:00-5:15pm | **Matthew Blake (St. Olaf)**
Alternating Harmonic Series Grouped by Fibonacci and Triangular Numbers

5:20-5:50pm | **Dinner Break**

5:50-6:05pm | **Elena Parkerson (Carleton)**
Stochastic Simulation and Finite State Projection Algorithms for Viral Infections

6:10-6:25pm | **Yang Tan and Nhi Luong (Carleton)**
Constructing Balanced Walls in Random Groups

6:30-6:45pm | **Murali Meyer (St. Olaf)**
Morsels of Mandelbrots