Thursday

• 8:45am – 8:50am: Opening Remarks

• 9:15am – 9:35am: Duality in Optimization

Yidonq Xu

• 9:40am – 10:00am: The Affine Low-Rank Matrix Completion Algorithm

Eric Perkerson

• 10:05am – 10:25am: Debiasing Word Embeddings

Andrew Maurer

Coffee Break

• 10:50am – 11:10am: Thinking Inside the (Distinct or Identical) Boxes: A Friendly Introduction to Object Distributions and Stirling Numbers of the Second Kind

Catrina May

• 11:15am – 11:35am: Introduction to Grassmannians

Joseph Dorta

• 11:40am – 12:00pm: A Mathematical Introduction to Quantum Mechanics

Kenneth Allen

• 12:05pm – 12:25pm: Tannakian Reconstruction of Finite Groups

Jack Wagner

Lunch Break

• 1:40pm – 2:00pm: About finite groups acting freely on S^{2k-1}

Swapnanil Banerjee

• 2:05pm – 2:25pm: Ribbon genus, Virtual graphs, and Wirtinger deficiency

Jason Joseph

• 2:30pm – 2:50pm: Four-manifold invariants from broken Lefschetz fibrations and trisections

William Olsen

• 2:55pm – 3:15pm: Differential Graded Algebras of Legendrian Knots

Sarah Blackwell

Coffee Break

• 3:40pm – 4:00pm: What makes a metric super?

Terrin Warren

• 4:05pm – 4:25pm: Totally geodesic subspaces of the space of polygons in \mathbb{R}^3

Erik Schreyer

• 4:30pm – 4:50pm: An Axiomatic Approach to Homology Theory In Algebraic Topology

Freddy Saia

• 4:55pm – 5:15pm: Computing the Fundamental Group of the Circle Using Van Kampen's Theorem

Ernest Guico

Friday

• 8:30am – 8:50am: Hasse Principle Violations of Quadratic Twists of Hyperelliptic Curves

Lori Watson

• 8:55am – 9:15am: Iwasawa Theory of Elliptic Curves

Makoto Suwama

• 9:20am – 9:40am: Collatz Conjecture

Komal Agrawal

• 9:45am – 10:05am: First Digits of 2^n

Peter Woolfitt

Coffee Break

• 10:30am – 10:50am: Small prime power residues

Kubra Benli

 \bullet 10:55am – 11:15am: Existence of positive solution for fractional p laplacian equation

Jinsil Lee

• 11:20am – 11:40am: Irreducible quadratic polynomials and Euler's function

Noah Lebowitz-Lockard

• 11:45am – 12:05pm: Galois theory and Covering Spaces

Amelia Ernst

• 12:10pm – 12:30pm: Geometry and Galois Theory

Nolan Schock

$Lunch\ Break$

 \bullet 1:45pm – 2:05pm: Synchrony and bistability in a Boolean network model of the L-arabinose operon Andy Jenkins

• 2:10pm – 2:30pm: Subsequence Pattern Packing in Permutations and Compositions

Matt Just

• 2:35pm – 2:55pm: Good subsets of the unit circle

Ziqing Xiang

• 3:00pm – 3:20pm: Fractional Coloring

Kirsten Morris

Coffee Break

• 3:45pm – 4:05pm: Ultrafilters and Arrow's Impossibility Theorem

David Galban

• 4:10pm – 4:30pm: Sudoku Symmetry Group

Alex Newman

• 4:35pm – 4:55pm: Hodge Theory, Period Maps and Period Domains

Benjamin Tighe

• 5:00pm – 5:20pm: An Overview of Compactifying Moduli Spaces

Xian Wu