

Graduate Student Summer Conference 2019

“The Mock AMS”

July 25 – July 26

Schedule

All talks in Boyd 328

Thursday, July 25

- 9:10-9:15 Opening Remarks
- 9:15-9:35 Ernest Guico - *Gerschgorin Disks*
- 9:40-10:00 Andy Jenkins - *The Decomposition Map and Modular Representation Theory*
- 10:05-10:25 Amelia Ernst - *TBA*

Coffee Break: 10:30-11:00

- 11:00-11:20 David Galban - *Goodstein Sequences and the Kirby-Paris Theorem*
- 11:25-11:45 Nolan Schock - *Approaches to Enumerative Problems*
- 11:50-12:10 Peter Woolfitt - *So You Think You Can Multiply?*

Lunch: 12:15-1:45

- 1:45-2:05 Thomas Melistas - *Pseudoholomorphic curves in celestial mechanics*
- 2:10-2:30 Bill Olsen - *TBA*
- 2:35-2:55 Eric Perkeron - *Learning Low-Dimensional Manifolds*

Coffee Break: 3:00-3:30

- 3:30-3:50 Kirsten Morris - *An Introduction to Topological Data Analysis (TDA)*
- 3:55-4:15 Alex Newman - *TBA*
- 4:20-4:40 Jonathan Foster - *Let's talk about mathematical connections: Shifting the discourse*

Friday, July 26

- 9:10-9:15 Opening Remarks
- 9:15-9:35 Clay Mersmann - *A Domain Decomposition Method for Multivariate Spline Solutions of the Poisson Equation*
- 9:40-10:00 Zhaiming Shen - *The Effectiveness of Quasi-Orthogonal Matching Pursuit Algorithm*
- 10:05-10:25 Jinsil Lee - *Mathematical analysis for daisy chain gene drives*

Coffee Break: 10:30-11:00

- 11:00-11:20 Kübra Benli - *Squares modulo p*
- 11:25-11:45 Matt Just - *Ordered Partitions and Factorizations*
- 11:50-12:10 Tyler Genao - *Why is $e^{\pi\sqrt{163}}$ almost an integer?*

Lunch: 12:15-1:45

- 1:45-2:05 Freddy Saia - *A Conjecture of Kac-Wakimoto and Modular Forms*
- 2:10-2:30 Arvind Suresh - *Multiplication by 2 on elliptic curves*
- 2:35-2:55 Haiyang Wang - *Lenstra elliptic-curve factorization*

Coffee Break: 3:00-3:30

- 3:30-3:50 Xian Wu - *ADE Dynkin Diagrams and Related Topics*
- 3:55-4:15 Ben Tighe - *A very brief introduction to deformation theory*
- 4:20-4:40 Jack Wagner - *Local Systems and the Fundamental Group*