FRIDAY AUGUST 12 - SESSION I-1: 1:45PM-3:15PM

Session A - Classroom Scott Lab E0004

1:45pm-2:05pm: On the Continued Fraction Expansion of Random Real Numbers by Zhuo Zhang and Shreyas Singh.
2:15pm-2:35pm: Giving Group Laws for Galois Gerbs by Nir Elber.
2:45pm-3:05pm: Cuspidal Projections of Products of Eisenstein Series by Amy Woodall.

Session B - Classroom Scott Lab E0024

1:45pm-2:05pm: The Permutation Groups of Generalized Perfect Shuffles by Qiyu Zhang.
2:15pm-2:35pm: Maximal skew sets of lines on a Hermitian surface and a modified Bron-Kerbosch algorithm by Haoyu Du.

Session C - Classroom Scott Lab E0040

1:45pm-2:05pm: Linear Preservers of Lorentz Spectra in Higher Dimensions by Rhea Kommerell and Runze Li.
2:45pm-3:05pm: Revisiting the Upper Bound of the Number of Rectangulations of a Finite Planar Point Set by Hannah Ashbach.

FRIDAY AUGUST 12 - SESSION I-2: 3:45PM-4:45PM

Session A - Classroom Scott Lab E0004

3:45pm-4:05pm: Spectral Analysis of the Complex Sub-Laplacian by Supriya Weiss, Ethan Hall and Elaine Danielson.
4:15pm-4:35pm: Spectral Analysis of Perturbed Complex Laplacians on the Rossi Sphere by Megan Kridli.

Session B - Classroom Room: Scott Lab E0024

3:45pm-4:05pm: Finding the Minimal Splitting Surface of the Ideal Regular Octahedron in the Poincar’e Ball by Ella Wilson and Aislinn Smith.
4:15pm-4:35pm: Constructing Group Actions on Triads and Seventh Chords by Meredith Williams, Noe Rodriguez and Ethan Bonnell.

Session C - Classroom Scott Lab E0040

3:45pm-4:05pm: Cell Packing in Epithelial Tissue by Nina De La Torre.
4:15pm-4:35pm: Spreading speed of Fisher-KPP equation and its application in the one-prey two-predator system by Qianzi Hou.
SATURDAY AUGUST 13 - SESSION II-1: 11:00AM-12:00PM

Session A - Classroom Scott Lab E0004
11:00am-11:20am: Lower Volume Bounds for Families of Knotoids by Maya Chande and Joye Chen.
11:30am-11:50am: Graph Theoretic Methods for Computing Quantum Invariants by Andrew Pease and Derya Asaner.

Session B - Classroom Scott Lab E0024
11:00am-11:20am: The Brezis-Nirenberg problem for a system of divergence-form equations by Sean Pooley and Burton Brown.
11:30am-11:50am: Analytical and Computational Study of Darwinian Dynamics by Xin Hui and Quanhai Chen.

Session C - Classroom Scott Lab E0040
11:00am-11:20am: Generalizing Minimality Properties of Far-Difference Fibonacci Decompositions by Andrew Keisling and Jacob Lehmann.
11:30am-11:50am: Sum and Difference Sets in Semidirect Products of Groups by Matthew Phang and Andrew Keisling.

POSTER SESSION - Scott Lab 12:00PM-1:30PM

Exploration of the Pocket Rubik’s Group by Ryan Brown.
Combinatorial Formulas for the Equivariant Cohomology of Peterson Varieties by Swan Klein.

SATURDAY AUGUST 13 - SESSION II-2: 1:45PM-3:15PM

Session A - Classroom Scott Lab E0004
1:45pm-2:05pm: Regularity Conditions on Paths of the Fractional Gaussian Field on $S^1$ and the Torus by Andrew Gannon, Benjamin Hanzsek-Brill and Alexander Neuschotz.
2:45pm-3:05pm: Explicit gaps between $k$-free integers by Simon Ziehr and Russell Scherr.

Session B - Classroom Scott Lab E0024
1:45pm-2:05pm: Bounding ranks of cuspidal newforms through excised orthogonal ensembles by Astrid Lilly and Xuyan Liu.
2:15pm-2:35pm: An alternative method for calculating Bessel integrals appearing in $L$-function zero statistics by Astrid Lilly and Santiago Velazquez.
2:45pm-3:05pm: Generalized harmonic estimates for the $n$-level density of $L$-functions by Annika Mauro and Jack Miller.

Session C - Classroom Scott Lab E0040
1:45pm-2:05pm: Multivariate Fibonacci-Like Polynomials and Their Applications by Sejin Park, Etienne Phillips, Ilir Ziba and Jenny Zhan.
2:45pm-3:05pm: Continuous tilings by Levi Borevitz and Theodore Sandstrom.
SATURDAY AUGUST 13 - SESSION II-3: 3:45PM-4:45PM

Session A - Classroom Scott Lab E0004
3:45pm-4:05pm: Defining the Fractional Gaussian Field on the torus by Ethan Winters, Tyler Campos and Connor Marrs.
4:15pm-4:35pm: Geodesic Dynamics on Discrete Quotients of $H^2 \times H^2$ by River Newman, Reuel Williams and Alette Wells.

Session B - Classroom Scott Lab E0024
3:45pm-4:05pm: Modeling the Effects of Media on COVID-19 Transmission by Makayla Preston.
4:15pm-4:35pm: A Primal Dual Method for Topological Changes in Optimal Adversarial Classification by Henry Shugart and Bethany Fetsko.

Session C - Classroom Scott Lab E0040
3:45pm-4:05pm: Rigidity Properties of 4-Regular Graphs by Kaylee Weatherspoon and Henry Simmons.
4:15pm-4:35pm: Edge Determining Sets and Determining Index by Sean McAvoy.

SUNDAY AUGUST 14 - SESSION III-1: 11:00AM-12:30AM

Session A - Classroom Scott Lab E0004
11:00-11:20am: Benfordness of lower-dimensional spaces resulting from hyper-box fragmentation by Livia Betti and Zoe McDonald.
11:00-11:50pm: Random and Maximal Lengths of Zeckendorf Games by Guilherme Dantas and Prakod Ngamlamai.
12:00-12:20pm: Short-Range Differences of the Number of Summands of Zeckendorf Decompositions by Guilherme Dantas, Xuyan Liu and Jack Miller.

Session B - Classroom Scott Lab E0024
11:00-11:20am: Geometric Investigations of Mandelbrot Orbit Combinatorics by Gwendaline Murray.
11:00-11:50pm: Distinct Angles and Angle Chains in Three Dimensions by Ruben Ascoli and Jacob Lehmann Duke.
12:00-12:20pm: Learning Spheres and Chains in $F^d_q$ by Wyatt Milgrim and Ryan Jeong.

Session C - Classroom Scott Lab E0040
11:00-11:20am: Rationality of Real Conic Bundles with Quartic Discriminant Curve by Mattie Ji.
11:00-11:50pm: Density of Elliptic Dedekind Sums in Non-Euclidean Fields by Stephen Bartell and Brenden Schlader.
12:00-12:20pm: Locality in the Sum-Rank Metric: Bounds by Timothy Cheek and Teresa Pollard.