

MASON VII Mid-Atlantic Seminar On Numbers

Schedule: Saturday March 29th 2025

	Room A Toll 2213	Room B Toll 2214
9:00 AM	Registration, Coffee and Mingling Kirwan 3201	
9:55 AM	Opening Remarks - Kirwan 3206	
10:00 AM Kirwan 3206	Shabnam Akhtari Penn State Monogenic Orders and Classical Diophantine Equations	
10:50-11:10 AM	Break	
11:10 AM	William Craig United States Naval Academy Quasimodular forms, q -multiple zeta values, and partitions	Joshua Harrington Cedar Crest College Monogenic trinomials of the form $x^4 + ax^3 + d$ and their Galois groups
11:40 AM	Wissam Ghantous University of Central Florida A symmetric symbol for triples of modular forms	Chris Bispels UMBC Using Integer Covering Systems to find Repdigit and Other Forms of Riesel and Sierpiński Numbers
12:10-2:00 PM	Lunch	
2:00 PM Kirwan 3206	Andrew O'Desky Princeton Algebraic integers of bounded height and given Galois group	
2:50-3:10 PM	Break	
3:10 PM	Charles Samuels Christopher Newport University Function spaces on the places of $\overline{\mathbb{Q}}$	Travis Morrison Virginia Tech The SEA algorithm for endomorphisms of supersingular elliptic curves
3:40 PM	Michael Mossinghoff CCR Oscillations in the Goldbach conjecture	Maher Mamah Pennsylvania State University The Supersingular Isogeny Path and Endomorphism Ring Problems: Unconditional Reductions
4:10 PM	Amita Malik Pennsylvania State University Zeros of derivatives of L-functions attached to Maass forms	William Mahaney Virginia Tech Computing Isogenies At Singular Points of the Modular Polynomial
4:40 PM	Kassie Archer United States Naval Academy Egyptian fractions and arithmetical structures on graphs	Ian Whitehead Swarthmore College The Local-Global Conjecture for Generalized Circle Packings
5:00 PM	Problem Session	

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	Room A Toll 2213	Room B Toll 2214
8-9 AM	Registration, Coffee and Mingling Kirwan 3201	
9:00 AM Kirwan 3206	Lillian Pierce Duke Superorthogonality	
9:50-10:10 AM	Break	
10:10 AM	Russell Jay Hendel Towson University Proof of a Conjecture on the Growth of the Maximal Resistance Distance in a Linear 3-Tree	Foivos Chnaras University of Maryland On the cyclotomic Iwasawa invariants of Elliptic Curves of rank 1
10:40 AM	Wing Hong Tony Wong Kutztown University of Pennsylvania Digital sums and variations	
11:10 AM	Max Alekseyev George Washington University On computing solutions to $2^n \equiv 3 \pmod{n}$ and beyond	Michael Wills University of Virginia Non-trivial local-to-global principles for 0-cycles on products of elliptic curves
11:40 AM	Steven J. Miller Williams College From Sperner's Lemma to Spurring Research	