

MASON: Mid Atlantic Seminar On Numbers

October 29, 2016

Schedule

	Room 121	Room 122
10:00 AM	Jon Grantham IDA/CCS Parallel Computation of Primes of the Form $x^2 + 1$	
10:30 AM	Tristan Phillips Shippensburg University New Primitive Covering Numbers and Their Properties	Saikat Biswas Arizona State University Capitulation, unit groups, and the cohomology of S-idèle classes
11:00 AM	James Hammer Cedar Crest College On the Congruence $x^x \equiv x \pmod{n}$	Spencer Hamblen McDaniel College Local Arboreal Representations
11:20 AM	Break	
11:40 AM	Charles Samuels Christopher Newport University A Connection Between Fibonacci Numbers and Metric Heights	Abbey Bourdon University of Georgia Torsion in Isogeny Classes of CM Elliptic Curves
12:10 PM	Greg Dresden Washington and Lee University When is $a^n + 1$ the sum of two squares?	Heidi Goodson Haverford College Hypergeometric Functions and Arithmetic and Analytic Properties of Dwork Hypersurfaces
12:30 PM	Lunch	
2:00 PM Room 205	Robert Vaughan Penn State University The density of positive diagonal binary quadratic forms	
2:50 PM	Break	
3:10 PM	Tianyi Mao CUNY Graduate Center The Distribution of Integers in a Totally Real Cubic Field	Cassie Williams James Madison University Numerical secondary terms for a conjecture of Cohen and Lenstra
3:40 PM	Matthew Litman Penn State University On Consecutive Primitive nth Roots of Unity Modulo q	Eva Goedhart Lebanon Valley College On the Family of Diophantine Equations of the Form $X^{2N} + 2^{2\alpha}5^{2\beta}p^{2\gamma} = Z^5$
4:10 PM	Patrick Lank University of Massachusetts Lowell Arithmetic Combinatorics & Diophantine Equations	Mike Knapp Loyola University Sextic forms over extensions of \mathbb{Q}_2
4:40 PM	John Miller Johns Hopkins University Lower Bounds for Counting Low-Lying Zeros	Jiayuan Wang George Washington University A Computational Method for Solving Exponential-Polynomial Diophantine Equations