

Thursday, December 16, 2010

Elementary Session: Chair Neville Robbins

- 9:00 Saúl Díaz Alvarado *Fibonacci numbers with two sum ripitdigit representation.*
9:20 Andreas Weingartner *The distribution functions of $\sigma(n)/n$ and $n/\varphi(n)$*
9:40 Bart Goddard *Frodo is a QNR*
10:00 Daniel Wisniewski *Bounding the number of solutions to tetranomial Thue equations*
10:20 Gerry Myerson *Three easy pieces*

10:35-11:00 *Break*

- 11:00 Nathan Hamlin *Integer representation with recurrence sequences*
11:20 Steve Butler *Shuffling with ordered cards*
11:40 Neville Robbins *Progress on cyclic and dihedral compositions*

12:00-1:30 *Lunch Break*

- 1:30 Russell Hendel *Kimberling's "Floor n -squared ϕ minus n floor $n \phi$ " problem*

Algebraic Session: Chair Jasbir Chahal

- 1:50 Vinh Dang *Supersingular Galois representations and a conjecture of Ash, Doud and Pollack*
2:10 Ka Lun Wong *Maximal unramified extensions of cyclic cubic fields*
2:30 Jeremy Rouse *On sums of two cubes*

Computational Session: Chair John Burke

- 2:50 Rich Schroepel *Addition-multiplication chains and factoring*
3:10 Peter Montgomery *Massive Mersenne attack yields record ECM factors*

3:25-3:50 *Break*

- 3:50 John Brillhart *The completion of Euler's factoring formula*

Problem Session

4:10-5:00 *First Problem Session*

5:00-7:00 *Dinner Break*

7:00-9:00 *Selfridge Memorial*

Friday, December 17, 2010

9:00 David Bailey *Hand-to-hand combat with thousand-digit integrals*

Modular Forms Session: Chair Jeremy Rouse

9:20 John Lopez *Two-divisibility of certain weakly holomorphic modular forms*

9:40 Michael Griffin *Divisibility properties of coefficients of weight zero weakly holomorphic modular forms*

10:00 Nick Andersen *Divisibility of Fourier coefficients of level p modular functions for genus zero primes*

10:20 Stephanie Treneer *Zeros of level 2 Eisenstein series*

10:35-11:00 *Break*

11:00 David Keyes *Theta functions attached to rank codes*

11:20 Jeffery Breeding *Admissible representations and cuspidality*

Analytic Session: Chair Ryan Coatney

11:40 Roger Baker *Primes in arithmetic progressions to spaced moduli*

Free Afternoon

Saturday, December 18, 2010

- 9:00** Jennifer Paulhus *The parity of k th powers modulo p*
- 9:20** M Tip Phaovibul *The distribution of the partial sum of the Euler φ function*
- 9:40** Johann Thiel *Divisors and the Union Jack*
- 10:00** Ryan Coatney *Primitive lattice points in convex planar domains*
- 10:20** Wissam Raji *Periods of modular forms and identities between Eisenstein series*
- 10:35-11:00** *Break*
- 11:00** James Phillips *On Carmichael numbers with few prime factors*
- 11:20-11:45** *Business Meeting*
- 11:45-12:45** *Second Problem Session*