CANT 2012 Program

Tuesday, May 22, 2012
CUNY Graduate Center, Room C198

8:30 - 9:15 a.m.	Registration and coffee in the Math Lounge, 4th floor
9:30 - 10:00 a.m.	**Steven J. Miller**, Williams College "To infinity and beyond: Gaps between summands in Zeckendorf decompositions"
10:10 - 10:40 a.m.	**Kevin O'Bryant**, College of Staten Island (CUNY) "Fractional Parts of Roots"
10:50 - 11:20 a.m.	**Sandra Kingan**, Brooklyn College (CUNY) "Unlabeled equivalence for matroids representable over finite fields"
11:30 - 12:30 p.m.	**Alex Kontorovich**, Yale University "From Apollonius to Zaremba: Local-global phenomena in orbits, 1"
12:30 - 2:00 p.m.	**Lunch and math movie**
2:00 - 2:50 p.m.	**Mel Nathanson**, Lehman College (CUNY) "The Calkin-Wilf tree and a forest of linear fractional transformations"
3:00 - 3:30 p.m.	**Charles Helou**, Penn State Brandywine "Representation functions: Generating series, and lower and upper limits"
3:40 - 4:20 p.m.	**Renling Jin**, College of Charleston "Plünnecke for Densities"
4:30 -5:00 p.m.	**Problem session 1**, led by Renling Jin
5:00 - 7:00 p.m.	**Wine and cheese reception** in the Math Lounge, 4th floor

CANT 2012 Program

Wednesday, May 23, 2012
CUNY Graduate Center, Room 9206

8:30 - 9:15 a.m.	Registration and coffee in the Math Lounge, 4th floor
9:30 - 10:00 a.m.	**Mei-Chu Chang**, University of California-Riverside "Lattice points in small boxes over finite fields"
10:10 - 10:40 a.m.	**Oleg Lazarev**, Princeton University "Distribution of missing sums in sumsets"
10:50 - 11:20 a.m.	**Ryan Ronan**, Cooper Union "The distribution of generalized Ramanujan primes"
11:30 - 12:30 p.m.	**Alex Kontorovich**, Yale University "From Apollonius to Zaremba: Local-global phenomena in orbits, 2"
12:30 - 2:00 p.m.	**Lunch and math movie**
2:00 - 2:50 p.m.	**Alex Iosevich**, University of Rochester "A hands-on tutorial on obtaining incidence results in geometric combinatorics by linear and multi-linear analytic methods, 1"
3:00 - 3:30 p.m.	**Xian-Jin Li**, Brigham Young University "On the Hilbert inequality"
3:40 - 4:10 p.m.	**Steven Senger**, University of Delaware "Combinatorial estimates of the size of an image set"
4:20 - 4:50 p.m.	**Nathan Kaplan**, Harvard University "Numerical semigroups and hook sets of partitions"
5:00 -5:30 p.m.	**Problem session 2**, led by Steve Miller
6:30 - 8:30 p.m.	**Conference dinner** at IchiUmi: Japanese Sushi and Seafood Buffet 6 East 32nd Street.

CANT 2012 Program

Thursday, May 24, 2012
CUNY Graduate Center, Room 9206

8:30 - 9:15 a.m.   Registration and coffee in the Math Lounge, 4th floor

9:30 - 10:00 a.m.   **Christopher Hanusa**, Queens College (CUNY)
"Self-conjugate core partitions: it's storytime!"

10:10 - 10:40 a.m.   **Rishi Nath**, York College (CUNY)
"The Durfee square and the quotient of a self-conjugate partition"

10:50 - 11:20 a.m.   **Geoff Iyer**, University of Michigan, and **Liyang Zhang**, Williams College
"Constructing generalized sum-dominant sets"

11:30 - 12:30 p.m.   **Alex Kontorovich**, Yale University
"From Apollonius to Zaremba: Local-global phenomena in orbits, 3"

12:30 - 2:00 p.m.   **Lunch and math movie**

2:00 - 2:50 p.m.   **Alex Iosevich**, University of Rochester
"A hands-on tutorial on obtaining incidence results in geometric
combinatorics by linear and multi-linear analytic methods, 2"

3:00 - 3:30 p.m.   **Jonathan Sondow**, New York
"A weak Schanuel conjecture implies Gel'fond's conjecture for power towers"

3:40 - 4:10 p.m.   **Urban Larsson**, Chalmers University of Technology and
University of Gothenburg, Göteborg, Sweden
"$(1, 2)$ GDWN splits"

4:20 - 4:50 p.m.   **Neil Lyall**, University of Georgia
"Improvements and extensions of two theorems of Sarközy"

5:00 -5:30 p.m.   **Problem session 3**, led by Alex Iosevich

CANT 2012 Program

Friday, May 25, 2012
CUNY Graduate Center, Room 4102

8:30 - 9:00 a.m. Registration and coffee in the Room 4102

9:00 - 9:20 a.m. **Frederic Gilbert**, Ecole Polytechnique, Paris
"Around the Erdös-Turán conjecture: Bounded
representation functions and vertex cover problems"

9:30 - 10:00 a.m. **Emel Demirel**, Bergen County College
"Greatest common divisors of polynomial solutions
to the diophantine equation $x^2 + y^3 = 6912z^2$"

10:10 - 10:40 a.m. **Wei Zhang**, Columbia University
"Local character expansion and L-values"

10:50 - 11:20 a.m. **Jerry Hu**, University of Houston - Victoria
"Pairwise relative primality of positive integers"

11:30 - 12:30 p.m. **Alex Kontorovich**, Yale University
"From Apollonius to Zaremba: Local-global phenomena in orbits, 4"

12:30 - 2:00 p.m. **Lunch and math movie**

2:00 - 2:50 p.m. **Alex Iosevich**, University of Rochester
"A hands-on tutorial on obtaining incidence results in geometric
combinatorics by linear and multi-linear analytic methods, 3"

3:00 - 3:30 p.m. **Mizan R. Khan**, Eastern Connecticut State University
"The number of distinct Euclidean distances of points
on a modular hyperbola to the origin"

3:40 - 4:10 p.m. **Kerry Ojakian**, St. Joseph's College, New York
"Cops and Robber on the Hypercube"

4:20 - 4:50 p.m. **John Bryk**, John Jay College (CUNY)
"Counting Roots of Polynomials Modulo Primes"

5:00 -5:30 p.m. **Problem session 4**, led by Kevin O'Bryant