## Tuesday, May 24, 2011 CUNY Graduate Center, Room C198

8:30 - 9:00 a.m.	Registration and coffee
9:00 - 9:25 a.m.	<b>Peter Hegarty</b> , Chalmers University of Technology, Sweden "Sumsets, exponents and growth of graph powers"
9:30 - 10:20 a.m.	Seva Lev, University of Haifa, Israel "Doubling-critical sets in binary spaces"
10:40 - 11:05 a.m.	<b>Željka Ljujić</b> , CUNY Graduate Center "A lower bound for the size of a sum of dilates"
11:10 - 12:00 a.m.	Giorgis Petridis, University of Cambridge, England "The Plünnecke-Ruzsa inequality, 1"
12:00 - 1:30 p.m.	Lunch and math movie
1:30 - 1:55 p.m.	Charles Helou, Penn State - Brandywine "Representations by near quadratic sequences"
2:00 - 2:50 p.m.	Matt Devos, Simon Fraser University, Canada "Transforms and Kneser's addition theorem in groups"
3:00 - 3:25 p.m.	Aviezri Fraenkel, Weizmann Institute of Science, Israel "Aperiodic subtraction games"
3:30 - 3:55 p.m.	<b>Urban Larsson</b> , Chalmers University of Technology, Sweden "From heaps of matches to the limits of computability"
4:00 - 4:25 p.m.	<b>Jerry Hu</b> , University of Houston - Victoria "The probability that $m$ positive integers are $k$ -wise relatively prime"
4:30 -5:00 p.m.	Problem session 1, led by Peter Hegarty
5:00 - 6:30 p.m.	Wine and cheese reception in the mathematics common room on the fourth floor

## Wednesday, May 25, 2011 CUNY Graduate Center, Room C198

8:30 - 9:00 a.m.	Registration and coffee
9:00 - 9:25 a.m.	Rishi Nath, York College (CUNY) "Simultaneous core partitions"
9:30 - 9:55 a.m.	Jonathan Sondow, New York "Ramanujan primes: bounds, runs, twins, and gaps"
10:00 - 10:25 a.m.	Nathan Kaplan, Harvard University "Counting semigroups of genus $g$ and Weierstrass semigroups of algebraic curves"
10:40 - 11:05 a.m.	Renling Jin, College of Charleston "One set fits all"
11:10 - 12:00 a.m.	<b>Giorgis Petridis</b> , University of Cambridge, England "The Plünnecke-Ruzsa inequality, 2"
12:00 - 1:30 p.m.	Lunch and math movie
1:30 - 1:55 p.m.	Mel Nathanson, CUNY Graduate Center and Lehman College "Hamidoune's method in additive number theory, 1"
2:00 - 2:50 p.m.	Matt Devos, Simon Fraser University, Canada "A generalization of Kneser's theorem to nonabelian groups"
3:00 - 3:25 p.m.	Lan Nguyen "On the Grothendieck group associated to quantum arithmetic"
3:30 - 3:55 p.m.	Omar Kihel, Brock University, Canada "On permutation binomials over finite fields"
4:00 - 4:25 p.m.	Jonathan Cutler, Montclair State University "Extremal problems for homomorphisms"
4:30 -5:00 p.m.	Problem session 2, led by Kevin O'Bryant
5:00 - 6:30 p.m.	Wine and cheese reception in the mathematics common room on the fourth floor

#### Thursday, May 26, 2011 CUNY Graduate Center, Room 9204

CONI	Graduate Center, Room 9204
8:30 - 9:00 a.m.	Registration and coffee
9:00 - 9:25 a.m.	<b>Scott Chapman</b> , Sam Houston State University "Factorizations of algebraic integers, block monoids, and additive number theory"
9:30 - 9:55 a.m.	Mei-Chu Chang, University of California - Riverside "Character sums with smooth moduli"
10:00 - 10:25 a.m.	Neil Lyall, University of Georgia "Polynomial patterns in subsets of the integers"
10:40 - 11:05 a.m.	<b>Alex Kontorovich</b> , SUNY at Stony Brook "On Zaremba's Conjecture"
11:10 - 12:00 a.m.	<b>Giorgis Petridis</b> , University of Cambridge, England "The Plünnecke-Ruzsa inequality,3"
12:00 - 1:30 p.m.	Lunch and math movie
1:30 - 1:55 p.m.	<b>Mel Nathanson</b> , CUNY Graduate Center and Lehman College "Hamidoune's method in additive number theory, 2"
2:00 - 2:50 p.m.	Matt Devos, Simon Fraser University, Canada "Toward the Schrijver-Seymour conjecture"
3:30 - 3:55 p.m.	Steven J. Miller, Williams College "Cookie Monster meets the Fibonacci numbers, II. Mmmmmm – theorems!"
4:00 - 4:25 p.m.	Steven J. Miller, Sean C. Pegado, Sidney Luc Robinson, Williams College "Explicit Constructions of Generalized MSTD Sets"
4:30 - 5:00 p.m.	Problem session 3, led by Alex Kontorovich
5:00 - 6:00 p.m.	Wine and cheese reception
6:30 - 8:30 p.m.	Conference banquet at Grand Sichuan Restaurant, 227 Lexington Avenue (between 33rd and 34th Streets)

## Friday, May 27, 2011 CUNY Graduate Center, Room C198

8:30 - 9:00 a.m.	Registration and coffee
9:00 - 9:25 a.m.	Paul Baginski, Université Claude Bernard Lyon, France "Factoring within arithmetic progressions"
9:30 - 9:55 a.m.	<b>Alex Iosevich</b> , University of Rochester "Sum-product theory over $\mathbf{Z}_{p^l}$ "
10:00 - 10:25 a.m.	<b>Thai Hoang Le</b> , Institute for Advanced Study "Problems and results on intersective sets"
10:40 - 11:05 a.m.	Steve Senger, University of Missouri "Consequences and connections of recent results in geometric combinatorics"
11:10 - 12:00 a.m.	<b>Giorgis Petridis</b> , University of Cambridge, England "The Plünnecke-Ruzsa inequality, 4"
12:00 - 1:30 p.m.	Lunch and math movie
1:30 - 1:55 p.m.	<b>Mel Nathanson</b> , CUNY Graduate Center and Lehman College "Hamidoune's method in additive number theory, 3"
2:00 - 2:50 p.m.	Matt Devos, Simon Fraser University, Canada "Small separations in vertex-transitive graphs"
3:00 - 3:25 p.m.	Hoi H. Nguyen, University of Pennsylvania "Inverse Littlewood-Offord theorems for quadratic forms and the singularity of random symmetric matrices"
3:30 - 3:55 p.m.	Mizan R. Khan, Eastern Connecticut State University "Revisiting Toom's proof of Bulgarian Solitaire"
4:00 - 4:30 p.m.	Problem session 4, led by Seva Lev
4:30 - 5:30 p.m.	Wine and cheese reception in the mathematics common room on the fourth floor
5:30 - 8:00 p.m.	Excursion to the Museum of Modern Art