

CANT 2016 Program

Tuesday, May 24, 2016
CUNY Graduate Center, Room C198

- 8:30 - 9:00 a.m. Registration and coffee in the Math Lounge on the 4th floor
- 9:00 - 9:25 a.m. **Sandie Han**, New York City Tech (CUNY)
“Characterization of matrix $\in GL_2(\mathbf{N}_0)$ as product of certain pairs of 2×2 matrices”
- 9:30 - 9:55 a.m. **Arnab Bose**, University of Lethbridge, Canada
“Investigations on some exponential congruences”
- 10:00 - 10:25 a.m. **George Grossman**, Central Michigan University
“Combinatorial identities with Fibonacci and Lucas numbers”
- 10:30 - 10:55 a.m. **Paul Baginski**, Fairfield University
“Arithmetic progressions, nonunique factorization, and additive combinatorics in the group of units mod n ”
- 11:00 - 11:25 a.m. **Coffee break**
- 11:30 - 11:55 a.m. **Jiange Li**, University of Delaware
“An entropy analogue of the more sums than differences problem”
- 12:00 - 12:25 p.m. **Colin Defant**, University of Florida
“The unitary Cayley graph of $\mathbf{Z}/n\mathbf{Z}$ ”
- 12:30 - 1:30 p.m. **Lunch**

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- 1:30 - 1:55 p.m. **Mohamed El Bachraoui**, United Arab Emirates University
“On the polynomiality of $\frac{1-q^b}{1-q^a} \begin{bmatrix} n \\ m \end{bmatrix}$ ”
- 2:00 - 2:25 p.m. **Neil Lyall**, University of Georgia
“Some new results in geometric Ramsey theory”
- 2:30 - 2:55 p.m. **Akos Magyar**, University of Georgia
“A Roth type theorem for dense subsets of \mathbf{R}^d ”
- 3:00 - 3:50 p.m. **Van Vu**, Yale University
“Sum-free sets in groups”
- 4:00 - 4:25 p.m. **Brendan Murphy**, University of Rochester
“Half-way to Szemerédi-Trotter over finite fields”
- 4:30 - 5:00 p.m. **Problem session**, moderated by Mel Nathanson
- 5:15 - 6:00 p.m. **Wine and cheese reception**
in the Math Lounge, 4th floor

CANT 2016 Program

Wednesday, May 25, 2016
CUNY Graduate Center, Room C198

- 8:00 - 8:30 a.m. Registration and coffee in the Math Lounge on the 4th floor
- 8:30 - 9:00 a.m. **Ariane Masuda**, New York City Tech (CUNY)
“Weierstrass semigroups on Kummer extensions”
- 9:00 - 9:50 a.m. **Yuri Tschinkel**, NYU
“Counting integral points on orbits of algebraic groups”
- 10:00 - 10:25 a.m. **Giorgis Petridis**, University of Rochester
“Products of differences in finite fields”
- 10:30 - 10:55 a.m. **Sam Cole**, University of Illinois at Chicago
“Planted partitions in random graphs”
- 11:00 - 11:25 a.m. **Urban Larsson**, Dalhousie University, Halifax, Canada
“Sunsets and impartial games”
- 11:30 - 12:20 a.m. **Péter Pál Pach**,
Budapest University of Technology and Economics, Hungary
“Progression-free sets in \mathbf{Z}_4^n ”
- 12:30 - 1:30 p.m. **Lunch**

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- 1:30 - 1:55 p.m. **Gautami Bhowmik**, Universit of Lille, France
“A combinatorial problem from a mediaeval Sanskrit text”
- 2:00 - 2:25 p.m. **Bradley Rodgers**, University of Michigan
“Divisor sums in short intervals and counts of plane partitions”
- 2:30 - 2:55 p.m. **Steven Senger**, Missouri State University
“A few sum-product type estimates”
- 3:00 - 3:50 p.m. **Tom Sanders**, Oxford University, UK
“Monochromatic sums and products”
- 4:00 - 4:25 p.m. **Alex Iosevich**, University of Rochester
“On analytic, combinatorial and number theoretic aspects of the distance graph”
- 4:30 - 5:00 p.m. **Problem session**, moderated by Alex Iosevich
- 5:15 - 6:00 p.m. **Pizza party** in the Math Lounge, 4th floor

CANT 2016 Program

Thursday, May 26, 2016
CUNY Graduate Center, Room C198

- 8:30 - 9:00 a.m. Registration and coffee in the Math Lounge on the 4th floor
- 9:00 - 9:25 a.m. **Nathan McNew**, Towson University
“Counting Integers divisible by a large shifted prime”
- 9:30 - 9:55 a.m. **Kamil Bulinski**, University of Sydney, Australia
“Twisted multiple recurrence and patterns in large subsets of \mathbf{Z}^d ”
- 10:00 - 10:25 a.m. **Satyanand Singh**, New York City Tech (CUNY)
“The odd behavior of Nathanson’s lambda sequences”
- 10:30 - 10:55 a.m. **Mizan Khan**, Eastern Connecticut State University
“On White’s characterization of empty lattice tetrahedra”
- 11:00 - 11:25 a.m. **Pierre Bienvenu**, University of Bristol, UK
“Higher dimensional Siegel-Walfisz theorem”
- 11:30 - 11:55 a.m. **Andrew Treglown**, University of Birmingham, UK
“Maximal sum-free subsets in the integers”
- 12:00 - 12:25 p.m. **Yoni Stanchescu**, Afeka College and the Open University of Israel
“Small sumsets in torsion-free groups”
- 12:30 - 1:30 p.m. **Lunch**

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- 1:30 - 1:55 p.m. **Jonathan Sondow**, New York
“Babbage’s (non)-primality tests”
- 2:00 - 2:25 p.m. **James Sellers**, Pennsylvania State University
“Infinitely many congruences modulo 5 for 4-colored Frobenius partitions”
- 2:30 - 2:55 p.m. **William J. Keith**, Michigan Technological University
“Partitions simultaneously regular, distinct, and/or flat”
- 3:00 - 3:25 p.m. **Sarfraz Ahmad**, Comsats Institute of Information Technology,
Lahore, Pakistan
“On the chain blockers of the poset $C_5 \times C_b$ ”
- 3:30 - 3:55 p.m. **Ray Li**, Carnegie-Mellon, **Steven J. Miller**, Williams College,
Zhao Pan, Carnegie-Mellon, and **Huanzhong Xu**, Carnegie-Mellon
“Convergence rates in generalized Zeckendorf decomposition problems”
- 4:00 - 4:25 p.m. **Steven J. Miller**, Williams College, **Victor Xu**, Carnegie-Mellon,
and **Xiaorong Zhang**, Carnegie-Mellon
“Existence of MSTD subsets and divots in the missing sums distribution”
- 4:30 - 5:00 p.m. **Problem session**, moderated by Steve Miller
- 5:15 - 6:00 p.m. **Wine and cheese reception**
in the Math Lounge, 4th floor

CANT 2016 Program

Friday, May 27, 2016
CUNY Graduate Center, Room C198

- 8:30 - 9:00 a.m. Registration and coffee in the Math Lounge on the 4th floor
- 9:00 - 9:25 a.m. **Rishi Nath**, York College (CUNY)
“Sequences of simultaneous core partitions”
- 9:30 - 9:55 a.m. **Ben Krause**, University of British Columbia
“Discrete analogues in harmonic analysis: A monomial Carlson theorem”
- 10:00 - 10:50 a.m. **Sinai Robins**, ICERM at Brown University,
and University of Sao Paulo, Brazil
“Discrete volumes of polytopes, Fourier transforms of polytopes,
and solid angle sums”
- 11:00 - 11:25 a.m. **Amanda Montejano**, UMDI-Facultad de Ciencias,
Universidad Nacional Autónoma de México, Querétaro, México
“Zero-sum k -blocks in $\{-1, +1\}$ bounded sum sequences”
- 11:30 - 11:55 a.m. **Ryan Ronan**, CUNY Graduate Center
“An asymptotic for the growth of Markoff-Hurwitz tuples”
- 12:00 - 12:25 p.m. **Mel Nathanson**, Lehman College (CUNY)
“Comparison estimates for linear forms”
- 12:30 - 1:30 p.m. **Lunch**

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- 1:30 - 1:55 p.m. **Brian Hopkins**, St. Peter's University
"Color restricted n -color compositions"
- 2:00 - 2:50 p.m. **S. V. Konyagin**, Steklov Mathematical Institute
of the Russian Academy of Sciences
"Number of nontrivial solutions of an equation with reciprocals"
- 3:00 - 3:25 p.m. **Johann Thiel**, New York City Tech (CUNY)
"The growth of coefficients in certain PLFT (u, v) -Calkin-Wilf trees"
- 3:30 - 4:00 p.m. **Problem session, moderated by Kevin O'Bryant**
- 4:15 - 6:00 p.m. **End of conference reception**
in the Math Lounge, 4th floor