

CANT 2017 Program

Tuesday, May 23, 2017
CUNY Graduate Center, Room C198

- 8:00 - 8:45 a.m. **Coffee and muffins in the Math Lounge**, Room 4214
- 9:00 - 9:30 a.m. **Robert Donley**, Queensborough Community College (CUNY)
“Clebsch-Gordan coefficients in characteristic zero”
- 9:35 - 10:05 a.m. **Nathan McNew**, Towson State University
“Primitive and geometric-progression-free sets without large gaps”
- 10:10 - 10:40 a.m. **Yifan Zhang**, Central Michigan University
“The generating function of the product of second-order recurrence sequences”
- 10:40 - 11:10 a.m. **Coffee break**
- 11:10 - 11:40 a.m. **Jonathan Sondow**, New York
“Power-sum denominators”
- 11:45 - 12:15 p.m. **James Sellers**, Pennsylvania State University
“An infinite family of congruences for ℓ -regular overpartitions”
- 12:15 - 1:30 p.m. **Lunch**
- 1:30 - 2:00 p.m. **Ali Armandnejad**, Vali-e-Asr University of Rafsanjan, Iran
“Number of signature matrices on each component of J -orthogonal matrices”
- 2:05 - 2:35 p.m. **Charles Helou**, Pennsylvania State University - Brandywine
“Cyclotomic expressions for representation functions”
- 2:40 - 2:55 p.m. **Mizan R. Khan**, Eastern Connecticut State University
“An *amuse-bouche* arising from a result of Mordell”
- 3:00 - 3:15 p.m. **Ajmain Yamin**, Bronx High School of Science
“An n -dimensional Calkin-Wilf tree and its graph structure”
- 3:15 - 3:40 p.m. **Coffee break**
- 3:40 - 4:10 p.m. **Nana Li**, Bard College at Simon’s Rock
“On the union-closed sets conjecture”
- 4:15 - 4:45 p.m. **Brian Hopkins**, St. Peter’s University
“Magic configurations”
- 4:50 - 5:20 p.m. **Jared Lichtman**, Dartmouth College
“Lying on the Fermat primality test”
- 5:30 - 6:30 p.m. **Wine and cheese reception** in the Math Lounge, Room 4214

CANT 2017 Program

Wednesday, May 24, 2017
CUNY Graduate Center, Room C198

- 8:00 - 8:45 a.m. **Coffee and muffins in the Math Lounge, Room 4214**
- 9:00 - 9:30 a.m. **Byungchan Kim**, SeoulTech, Republic of Korea
“ (q, t) -Delannoy numbers and integer partitions”
- 9:35 - 10:05 a.m. **Jack Sonn**, Technion, Israel
“Quadratic residues and difference sets”
- 10:10 - 10:40 a.m. **Colin Defant**, University of Florida
“A new proof of Euler’s formula for $\zeta(2k)$ ”
- 10:40 - 11:10 a.m. **Coffee break**
- 11:10 - 11:40 a.m. **David Chudnovsky and Gregory Chudnovsky**, NYU
“Near isomorphism of graphs”
- 11:45 - 12:15 p.m. **Joseph Gunther**, CUNY Graduate Center
“Slicing the stars: Counting algebraic numbers by degree and height”
- 12:15 - 1:30 p.m. **Lunch**
- 1:30 - 2:00 p.m. **Hershy Kisilevsky**, Concordia University, Canada
“Sign matrices and quadratic residue matrices”
- 2:05 - 2:35 p.m. **Yuri Tschinkel**, Courant Institute, NYU
“Rationality problems”
- 2:40 - 3:10 p.m. **Robert Hough**, SUNY at Stony Brook
“The shape of cubic fields”
- 3:10 - 3:40 p.m. **Coffee break**
- 3:40 - 4:10 p.m. **Mengqing Qin**, Missouri State University
“Bounds on $AA + AA$ in terms of AA in finite fields”
- 4:15 - 4:45 p.m. **Yoni Stancescu**, Afeka College, Israel
“Selected problems and results in inverse additive number theory”
- 4:50 - 5:20 p.m. **Problem session**, moderated by Kevin O’Byrant
- 5:30 - 6:30 p.m. **Pizza party** in the Math Lounge, Room 4214

CANT 2017 Program

Thursday, May 25, 2017
CUNY Graduate Center
Science Center, Room 4102

- 8:00 - 8:45 a.m. **Coffee and muffins in the Science Center**
- 9:00 - 9:30 a.m. **Ryan Ronan**, CUNY Graduate Center
“An asymptotic for the growth of Markoff-Hurwitz tuples”
- 9:35 - 10:05 a.m. **Abdul Basit**, Rutgers - New Brunswick
“Recent improvements in sum-product estimates”
- 10:10 - 10:40 a.m. **Sándor Kiss**, Budapest University of Technology and Economics, Hungary
“On the structure of sets which has coincide representation functions”
- 10:40 - 11:10 a.m. **Coffee break**
- 11:10 - 11:40 a.m. **Satyanand Singh**, New York City Tech (CUNY)
“A sinusoidal twist with exponential influences”
- 11:45 - 12:15 p.m. **Michael Maltenfort**, Northwestern University
“Characterizing additive systems”
- 12:15 - 1:30 p.m. **Lunch**
- 1:30 - 2:00 p.m. **Giorgis Petridis**, University of Georgia
“An inverse sum-product result in arbitrary fields ”
- 2:05 - 2:35 p.m. **Neil Lyall**, University of Georgia
“Embedding distance graphs into sets of positive density, I”
- 2:40 - 3:10 p.m. **Akos Magyar**, University of Georgia
“Embedding distance graphs into sets of positive density, II ”
- 3:10 - 3:40 p.m. **Coffee break**
- 3:40 - 4:10 p.m. **Alex Iosevich**, University of Rochester
“On a two-parameter variant of the Erdős distance problem”
- 4:15 - 4:45 p.m. **Azita Mayeli**, Queensborough CC and Graduate Center (CUNY)
“Recent developments in Gabor orthogonal bases on finite vector spaces”
- 4:50 - 5:20 p.m. **William J. Keith**, Michigan Technological University
“Major index over descent for pattern avoidance classes:
unimodality and other combinatorial features”
- 5:30 - 6:30 p.m. **Wine and cheese reception** in the Science Center

CANT 2017 Program

Friday, May 26, 2017
CUNY Graduate Center
Science Center, Room 4102

- 8:00 - 8:45 a.m. **Coffee and muffins in the Science Center**
- 9:00 - 9:30 a.m. **Steven J. Miller**, Williams College
“Ramsey theory over number fields and quaternions”
- 9:35 - 10:05 a.m. **Steve Senger**, Missouri State University
“Rainbow triangles”
- 10:10 - 10:40 a.m. **Hans Parshall**, University of Georgia
“Spherical quadrilaterals over finite fields”
- 10:40 - 11:10 a.m. **Coffee break**
- 11:10 - 11:40 a.m. **Salvatore Tringali**, University of Graz, Austria
“On the Interplay between arithmetic combinatorics and factorization theory”
- 11:45 - 12:15 p.m. **Csaba Sándor**, Budapest University of Technology and Economics, Hungary
“A lower bound of Ruzsa’s number related to the Erdős-Turán conjecture”
- 12:15 - 1:30 p.m. **Lunch**
- 1:30 - 2:00 p.m. **Sinai Robins**, University of Sao Paulo, Brazil
“Discrete volumes and Fourier transforms of polytopes, and solid angle sums”
- 2:05 - 2:35 p.m. **Sam Chow**, University of York, England
“Bohr sets and multiplicative diophantine approximation”
- 2:40 - 3:10 p.m. **Brandon Hanson**, Pennsylvania State University
“Integers not represented by diagonal forms of large degree”
- 3:10 - 3:40 p.m. **Coffee break**
- 3:40 - 4:10 p.m. **Stefan Steinerberger**, Yale University
“Strange new interactions between analysis and number theory”
- 4:15 - 4:45 p.m. **Mel Nathanson**, CUNY
“Problems in additive number theory and some applications of commutative algebra”
- 4:50 - 5:20 p.m. **Problem session**, moderated by Steve Miller
- 5:30 - 6:30 p.m. **Wine and cheese reception** in the Science Center