

# CANT 2014 Program

**Tuesday, May 27, 2014**  
**CUNY Graduate Center, Room C198**

- 8:30 - 9:00 a.m. Registration
- 9:00 - 9:30 a.m. **Johann Thiel**, New York City Tech (CUNY)  
“RATS Sequences in General Bases”
- 9:40 - 10:10 a.m. **Nathan Kaplan**, Yale University  
“Arcs in the projective plane”
- 10:20 - 10:50 a.m. **Eshita Mazumdar**, Harish-Chandra Research Institute, Allahabad, India  
“Modification of a certain method in the study of a zero-sum constant”
- 11:00 - 11:50 a.m. **Thai Hoang Le**, University of Texas  
“Equidistribution of polynomial sequences in function fields”
- 12:00 - 1:00 p.m. **Lunch and math movie**
- 1:00 - 1:30 p.m. **Jonathan Sondow**, New York  
“Primary pseudo-perfect numbers and the Erdős-Moser diophantine equation”
- 1:40 - 2:30 p.m. **Giorgis Petridis**, University of Rochester  
“On a question of Bukh on sums of dilates”
- NOTE: The following lecture will be at NYU
- 3:30 - 4:30 p.m. **Harald Helfgott**, École Normale Supérieure, Paris  
“The ternary Goldbach problem”  
Room 109, Courant Institute of Mathematical Sciences  
New York University, 251 Mercer Street

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Wednesday, May 28, 2014  
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- 9:00 - 9:30 a.m. **Satyanand Singh**, New York City Tech (CUNY)  
“Expectations of random  $h$ -fold sums of certain uniform distributions”
- 9:40 - 10:10 a.m. **Alan Chang**, Princeton University  
“Newman’s conjecture in various settings”
- 10:20 - 10:50 a.m. **Jean-Marc Deshouillers**, IPB-IMB Bordeaux, France  
“Sums of 3 or 4 cubes: Heuristic and numerical approaches”
- 11:00 - 12:00 p.m. **Harald Helfgott**, École Normale Supérieure, Paris  
“Major arcs in the solution to the ternary Goldbach problem”
- 12:00 - 1:30 p.m. **Lunch and math movie**
- 1:30 - 2:00 p.m. **Tim Susse**, CUNY Graduate Center and University of Nebraska  
“Commutators, Quasipolynomials and Lattice Points”
- 2:10 - 2:50 p.m. **Yonutz V. Stanchescu**, Afeka Tel Aviv Academic College, Israel  
“Structure theorems for dilates of integers and small doubling sets in Baumslag-Solitar groups”
- 3:00 - 3:30 p.m. **Luciane Quoos**, Instituto de Matemática, UFRJ, Rio de Janeiro, Brasil  
“Weierstrass semigroups and algebraic geometric codes on towers of function fields”
- 3:40 - 4:20 p.m. **Steven J. Miller**, Williams College  
“Continued fraction digit averages and Maclaurin’s inequalities”
- 4:30 - 5:15 p.m. **Problem session**, moderated by Steve Miller
- 5:15 - 6:15 p.m. **Wine and cheese reception**  
in the Math Lounge, 4th floor

# CANT 2014 Program

Thursday, May 29, 2014

CUNY Graduate Center, Science Center, Room 4102

- 9:00 - 9:30 a.m. **Bren Cavallo**, CUNY Graduate Center  
"The subset sum problem and the conjugacy problem in polycyclic groups"
- 9:40 - 10:10 a.m. **Paul Baginski**, Fairfield University  
"Factoring within arithmetic progressions, revisited"
- 10:20 - 10:50 a.m. **Lan Nguyen**, University of Wisconsin-Parkside  
"On the Hasse principle for systems of binary cubic forms"
- 11:00 - 12:00 p.m. **Harald Helfgott**, École Normale Supérieure, Paris  
"Minor arcs in the solution to the ternary Goldbach problem"
- 12:00 - 1:30 p.m. **Lunch and math movie**
- 1:30 - 2:00 p.m. **Angel V. Kumchev**, Towson University  
"New results in the Waring-Goldbach problem"
- 2:10 - 3:00 p.m. **Alberto Perelli**, University of Genova, Italy  
"The Selberg class of  $L$ -functions: A survey"
- 3:10 - 3:40 p.m. **Nathan McNew**, Dartmouth College  
"Random multiplicative walks and the most popular large prime divisors"
- 3:50 - 4:40 p.m. **Kevin O'Bryant**, College of Staten Island, CUNY  
"Sets without geometric progressions"
- 4:40 - 5:15 p.m. **Problem session**, moderated by Kevin O'Bryant
- 5:15 - 6:15 p.m. **Wine and cheese reception**  
in the Math Lounge, 4th floor
- 6:30 - 8:30 p.m. **Conference dinner**  
Ichi Umi Japanese Restaurant, 6 East 32nd Street.

# CANT 2014 Program

**Friday, May 30, 2014**

**CUNY Graduate Center, Science Center, Room 4102**

- 9:00 - 9:30 a.m. **Sandra Kingan**, Brooklyn College (CUNY)  
“Splitters and decomposers for binary matroids”
- 9:40 - 10:10 a.m. **Sukumar Das Adhikari**, Harish-Chandra Research Institute, Allahabad, India  
“Generalizations of certain zero-sum theorems: Some recent progress”
- 10:20 - 10:50 a.m. **Charles Helou**, Penn State Brandywine  
“Some functions related to the general Erdős-Turán conjecture”
- 11:00 - 12:00 p.m. **Harald Helfgott**, École Normale Supérieure, Paris  
“Growth in groups: ideas and perspectives”
- 12:00 - 1:30 p.m. **Lunch and math movie**
- 1:30 - 2:00 p.m. **Steven Senger**, University of Delaware  
“Some Erdős-type dot product problems and applications”
- 2:10 - 2:50 p.m. **Thomas Bloom**, University of Bristol  
“Quantitative improvements for Roth’s theorem”
- 3:00 - 3:30 p.m. **Mel Nathanson**, Lehman College, CUNY  
“A Calkin-Wilf forest of linear fractional transformations”
- 3:40 - 4:30 p.m. **Problem session**, moderated by Mel Nathanson
- 4:45 - 6:00 p.m. **Wine and cheese reception**  
in the Math Lounge, 4th floor