CANT 2026

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24th Annual Workshop on Combinatorial and Additive Number Theory

CUNY Graduate Center, New York

Monday, July 13, to Thursday, July 16 (in person and Zoom)

Friday, July 17, to Saturday, July 18 (Zoom only)

Speakers

(1) Sukumar Das Adhikari, Ra.m. EDT akrishna Mission Vivekananda Educational and Research Institute, India
Email: adhikarisukumar@gmail.com
Title: A pearl of number theory: Some old and new applications
In person: Wednesday, 9:00 - 9:25 a.m. EDT

(2) Chahat Ahuja, Indraprastha Institute of Information Technology, Delhi, India
Email: chahat22138@iiitd.ac.in
Title: Visibility of lattice points across polynomial curves
Zoom: Saturday 8:00 - 8:25 a.m. EDT

(3) Krishnaswami Alladi, University of Florida
Email: alladik@ufl.edu
Title: Duality between prime factors and prime numbers in arithmetic progressions
In person: Tuesday 3:00 - 3:50 p.m. EDT

(4) George Andrews, Pennsylvania State University
Email: gea1@psu.edu
Title: The mystery of two-color partitions with distinct parts
Zoom: Tuesday, 4:00 - 4:50 p.m. EDT

(5) Daniel Baczkowski, University of Findlay
Email: baczkowski@findlay.edu
Title: Building off the ideas of Erdős, Sierpiński, Riesel, and more
Zoom: Saturday, 8:30 - 8:55 a.m. EDT

(6) Arindam Biswas, Polynom Research, Paris, France
Email: arin.math@gmail.com
Title: Asymptotic approximate groups in virtually nilpotent groups
Zoom: Thursday, 9:00 - 9:25 a.m. EDT

(7) Veronica Bitonti, University of Oxford, UK
Email: veronica.bitonti@merton.ox.ac.uk
Title: Gap sets of random generalized numerical semigroups
Zoom: Friday, 1:30 - 1:55 p.m. EDT

(8) Alexander Borisov, Binghamton University
Email: aborisov@bingha.m. EDT ton.edu
Title: A structure sheaf for Kirch topology on $\mathbb{N}$
Zoom: Wednesday, 2:30 - :2:55 p.m. EDT

(9) Glenn T. Bruda, University of Florida
Email: glenn.bruda@ufl.edu
Title: Generalized polygonal number representations
Zoom: Saturday 4:00 - 4:25 p.m. EDT

(10) Marco Cantarini, University of Perugia, Italy
Email: marco.cantarini@unipg.it
Title: Averages of diagonal Elliott-Halberstam problem twisted by Möbius function with Sobolev and Hölder-Zygmund weights
Zoom: Saturday, 11:30 - 11:55 a.m. EDT

(11) Scott Chapman, Sam Houston State University
Email: STC008@shsu.edu
Title: A surprising characterization of unique factorization domains
In person: Tuesday, 11:00 - 11:25 1.m. EDT

(12) Austin Abraham Cramer, Penn State
Email: cramer@psu.edu
Title: Lattice points under polynomial curves
In person: Thursday, 4:30 - 4:55 p.m. EDT

(13) Lindsay Dever, Millersville University
Email: Lindsay.Dever@millersville.edu
Title: Atoms in the semigroup of non-negative integer matrices
Zoom: Friday, 4:30 - 4:55 p.m. EDT

(14) Dennis Eichhorn, University of California - Irvine
Email: deichhor@uci.edu
Title: The combinatorics of sequences that enjoy a curious self-convolutive property
Zoom: Friday, 10:00 - 10:25 a.m. EDT

(15) Jinhui Fang, Nanjing Normal University, Nanjing, P.R. China
Email: fangjinhui1114@163.com
Title: Minimal asymptotic bases related to $\mathcal{G}$-adic sequences
Zoom: Wednesday 9:30 - 9:55 a.m. EDT

(16) Neranga Fernando, Knox College
Email: nfernando@knox.edu
Title: Contributions to the famiily of reversed Dickson polynomials
Zoom: Friday, 4:30 - 4:55 p.m. EDT

(17) Michael Filaseta, University of South Carolina
Email: filaseta@math.sc.edu
Title: On the factorization of a sum of cyclotomic polynomials
Zoom: Wednesday, 4:30 - 4:55 p.m. EDT

(18) Mikhail Gabdullin, University of Illinois at Urbana-Champaign
Email: mikhail.gabdullin@gmail.com
Title: Moments of the shifted prime divisor function
In person: Monday, 11:00 - 11:25 a.m. EDT

(19) Krystian Gajdzica, Jagiellonian University, Poland
Title: On the Bessenrodt-Ono inequality for polynomials
Email: krystian.gajdzica@uj.edu.pl
Zoom: Saturday, 9:30 - 9:55 a.m. EDT

(20) Collier Gaiser, Community College of Aurora, Colorado
Email: collier.gaiser@ccaurora.edu
Title: On Rado numbers for equations with unit fractions
Zoom: Saturday, 4:30 - 4:55 p.m. EDT

(21) Alfred Geroldinger, University of Graz, Austria
Email: alfred.geroldinger@uni-graz.at
Title: On factorizations of zero-sum sequences over abelian torsion groups, I
In person: Monday, 11:30 - 11:55 a.m. EDT

(22) Aradhya Goel, Indian Institute of Technology Kanpur, India
Email: aradhyag24@iitk.ac.in
Title: Sophie Germain primes and the totient of Fibonacci numbers
In person: Monday, 9:30 - 9:55 a.m. EDT

(23) Vivekanand Goswami, IIT Bhilai, India
Email: vivekanandg@iitbhilai.ac.in
Title: Restricted set addition in finite abelian groups
Zoom: Friday, 8:30 - 8:55 a.m. EDT

(24) David Grynkiewicz, Memphis University
Email: dia.m. EDT bri@hotmail.com
Title: On factorizations of zero-sum sequences over abelian torsion groups, II
In person: Monday, 12:00 - 12:25 p.m. EDT

(25) Sinan Gunturk, NYU
Email: sinan.gunturk@nyu.edu
Title: Exponential sums and a conjecture involving quantization of bandlimited functions
In person: Monday, 1:30 - 1:55 p.m. EDT

(26) Katalin Gyarmati, Eötvös Loránd University, Hungary
Email: katalin.gyarmati@gmail.com
Title: The taxicab problem for polynomials and generalizations of Mason's theorem
Zoom: Friday, 2:30 - 2:55 p.m. EDT

(27) Yasuaki Gyoda, Nagoya University, Japan
Email: yasuakigyoda@gmail.com
Title: Generalized discrete Lagrange–Markov spectra
Zoom: Saturday, 7:30 - 7:55 a.m. EDT

(28) Norbert Hegyvári, Eötvös University and Rényi Institute, Hungary
Email: hegyvari.norbert@renyi.hu
Title: Consecutive sums, Sidon sets, convex sequences: Old and new problems
Zoom: Thursday, 12:00 - 12:25 p.m. EDT

(29) Russell Hendel, Towson University
Talk: Improvements in calculating the recursion satisfied by a family of determinants
Email: DrRussellJayHendel@gmail.com
Zoom: Friday, 3:00 - 3:25 p.m. EDT

(30) Philippa Holdridge, Alfréd Rényi institute, Hungary
Email: holdridge.philippa@renyi.hu
Title: The size of certain symmetric differences of sets of integers
Zoom: Friday, 12:00 - 12:25 p.m. EDT

(31) Francis Atta Howard, University of Abomey-Calavi, Benin Republic
Email: hfrancisatta@ymail.com
Title: Gertsch quotient living in the "poor man's adele ring" $\mathcal{A}$: Kurepa-Bell-Wilson congruence
Zoom: Saturday, 2:00 - 2:25 p.m. EDT

(32) Bobby Jacobs
Email: BobbyJacobs@email.com
Title: Fibonacci multiplication
Zoom: Saturday, 2:30 - 2:55 p.m. EDT

(33) Renling Jin, College of Charleston
Email: jinr@cofc.edu
Title: Three-in-one in Ramsey theory
In person: Tuesday, 10:30 - 10:55 a.m. EDT

(34) Alexander Kalmynin, Higher School of Economics, Russia
Email: alkalb1995cd@gmail.com
Title: Sárközy's conjecture on quadratic residues
Zoom: Friday, 10:30 - 10:55 a.m. EDT

(35) Sandra Kingan, Brooklyn College and the Graduate Center, CUNY
Email: skingan@brooklyn.cuny.edu
Title: Deletable edges in 3-connected graphs and their applications
In person: Thursday, 3:30 - 3:55 p.m. EDT

(36) Gergely Kiss, Rényi Alfréd Institute of Mathematics and Corvinus University, Hungary
Email: kigergo57@gmail.com
Title: Lower bounds for mask polynomials with many cyclotomic divisors
In person: Thursday, 10:30 - 10:55 a.m. EDT

(37) Sándor Kiss, Budapest University of Technology and Economics, Hungary
Email: ksandor@math.bme.hu
Title: Monotone increasing representation functions
Zoom: Friday, 9:30 - 9:55 a.m. EDT

(38) Jonah Klein, University of South Carolina
Email: jonah.klein@sc.edu
Title: The distortion method and its applications
In person: Thursday, 11:30 - 11:55 a.m. EDT

(39) Sergei Konyagin, Russia
Email: konyagin@mi-ras.ru
Title: On Sidon sets with squares, cubes and quartics in short intervals
Zoom: Tuesday, 9:30 - 9:55 a.m. EDT

(40) Noah Kravitz, Oxford University, UK
Email: noah.kravitz@maths.ox.ac.uk
Title: Sets with few subset sums
Zoom: Thursday, 9:30 - 9:55 a.m. EDT

(41) Gaurav Kumar, Indian Institute of Technology Gandhinagar, India
Email: kumargaurav@iitgn.ac.in
Title: Some identities of the sums-of-tails type
Zoom: Friday, 8:00 - 8:25 a.m. EDT

(42) Jeffrey C. Lagarias, University of MIchigan
Email: lagarias@umich.edu
Title: The Collatz problem: Progress and perspectives
Zoom: Wednesday, 10:30 - 11:20 p.m. EDT

(43) Paolo Leonetti, Università degli Studi dell'Insubria and Università Bocconi, Italy
Email: leonettipaolo@gmail.com
Title: Independent families and asymptotic density
Zoom: Friday, 12:30 - 12:55 p.m. EDT

(44) Jared Duker Lichtman, Stanford University
Email: jared.d.lichtman@gmail.com
Title: Primitive sets and von Mangoldt chains: Erdős #1196 and beyond
In person: Monday, 3:00 - 3:50 p.m. EDT

(45) Florian Luca, Stellenbosch University, South Africa
Email: fluca@sun.ac.za
Title: Multiply gleeful numbers
Zoom: Saturday, 1:30 - 1:55 p.m. EDT

(46) Jose Ramon Madrid Padilla, Virginia Tech
Email: josematrid@vt.edu
Title: Convolution inequalities and applications
In person: Monday, 10:30 - 10: 55 a.m. EDT

(47) Akos Magyar, University of Georgia
Email: a.m. EDT agyar@uga.edu
Title: Almost primes solutions to forms of odd degrees in many variables
In person: Tuesday, 11:30 - 12:20 p.m. EDT

(48) Amita Malik, Pennsylvania State University
Email:malik@psu.edu
Title: Lehmer-type partition statistics
In person: Thursday, 3:00 - 3:25 p..m. EDT

(49) Debyani Manna, Indian Institute of Technology Roorkee, India
Email: debyani97@gmail.com
Title: Extended Inverse results for restricted h-fold sumset in integer
Zoom: Saturday, 10:00 - 10:25 a.m EDT

(50) Eshita Mazumdar, Ahmedabad University, Ahmedabad, India
Title: Extending zero-sum theory from abelian to non-abelian groups
Email: eshita.mazumdar@ahduni.edu.in
Zoom: Saturday, 9:00 - 9:25 a.m. EDT

(51) Nathan McNew, Towson University
Title: Matchable numbers
Email: nmcnew@towson.edu
In person: Thursday, 10:00 - 10:25 a.m. EDT

(52) Steven J. Miller, Williams College, and PANTHers
(Steven Miller's REU: Probability And Number THeory)
Email: sjm1@willia.m. EDT s.edu
Title: Recent advances in generalized MSTD problems and Zeckendorf games
In person: Monday, 4:00 - 4:50 p.m. EDT

(53) Mohan, BK Birla Institute of Engineering and Technology, Pilani, India
Email: mohan98math@gmail.com
Title: Lehmer-type conjectures and open problems for Nathanson's totient functions
Zoom: Friday, 11:00 - 11:25 a.m EDT

(54) Amanda Montejano, Mexico
Email: a.m. EDT anda.m. EDT ontejano@ciencias.una.m. EDT .mx
Title: Discrete Brunn–Minkowski inequalities
Zoom: Thursday, 1:30 - 1:55 p.m. EDT

(55) Ivan V. Morozov, City College (CUNY)
Email: imorozo000@citymail.cuny.edu
Title: On quotients of a more general theorem of Wilson
In person: Wednesday, 10:00 - 10:25 .m. EDT

(56) C. J. Mozzochi, Connecticut
Email: cjm@ix.netcom.com
Title: A new approach to the circle method attack on the m-prime conjecture
In person: Thursday, 4:00 - 4:25 p.m. EDT

(57) Akshat Mudgal, University of Warwick, UK
Email: Akshat.Mudgal@warwick.ac.uk
Title: A structure theorem for sets with doubling $4 + \delta$
Zoom: Saturday, 11:00 - 11:25 a.m. EDT

(58) Augustine O. Munagi, University of the Witwatersrand, South Africa
Email: Augustine.Munagi@wits.ac.za
Title: A Bessenrodt-Ono inspired inequality for compositions proved constructively
Zoom: Saturday, 3:00 - 3:25 p.m. EDT

(59) Mel Nathanson, Lehman College and CUNY Graduate Center
Email: melvyn.nathanson@lehman.cuny.edu
Title: Three problems in additive number theory
In person: Wednesday, 11:30 - 12:20 p.m. EDT

(60) Neetu, National Institute of Technology Karnataka, India
Email: chananianeetu@gmail.com
Title: Small doubling in right-ordered groups
Zoom: Friday, 1:00 - 1:25 p.m. EDT

(61) Kevin O'Bryant, College of Staten Island and CUNY Graduate Center
Email: obryant@gmail.com
Title: The Sidon error term
In person: Monday, 9:00 a.m. EDT

(62) Péter Pál Pach, HUN-REN Alfréd Rényi Institute of Mathematics and BME, Hungary
Email: p.p.pach@gmail.com
Title: On the density of Kravitz sets
Zoom: Monday, 10:00 - 10:25 a.m. EDT

(63) Cosmin Pohoata, Emory University
Email: cosmin.pohoata@emory.edu
Title: Sidon sets in the squares, repeated distances, and the Elekes-Ronyai problem
Zoom: Thursday, 2:30 - 2:55 p.m. EDT

(64) Carl Pomerance, Dartmouth College
Email: carlp@math.dartmouth.edu
Title: Two topics in combinatorial number theory
In person: Tuesday, 1:30 - 2:20 p.m. EDT

(65) Wladimir Pribitkin, College of Staten Island and CUNY Graduate Center
Email: Wladimir.Pribitkin@csi.cuny.edu
Title: Simple upper bound for the power partition function
In person: Wednesday, 3:00 - 3:25 p.m. EDT

(66) Maksym Radziwill, New York University
Email: maksym.radziwill@gmail.com
Title: Exponential sums over primes
In person: Tuesday, 2:30 - 2:55 p.m. EDT

(67) Isaac Rajagopal, MIT
Email: isaacraj@mit.edu
Title: Possible sizes of sumsets
Zoom: Thursday 2:00 - 2:25 p.m EDT

(68) Manjil P. Saikia, Ahmedabad University, Ahmedabad, India
Email: manjil.saikia@ahduni.edu.in
Title: Hook length biases in t-regular and t-core partitions
Zoom: Friday, 3:30 - 3:55 p.m. EDT

(69) Pramana Saldin, University of California, Berkeley
Email: saldin@berkeley.edu
Title: Left and right quotient sets in non-abelian groups
In person: Thursday 11:00 - 11:25 a.m. EDT

(70) Alisa Sedunova, Purdue University
Email: alisa.sedunova@gmail.com
Title: Euler-Kronecker constants of maximal real cyclotomic subfields and Kummer's conjecture
In person: Wednesday, 2:00 - :2:25 p.m. EDT

(71) Steven Senger, Missouri State University
Email: stevensenger@gmail.com
Title: Nathanson's triangular gap question
In person: Wednesday, 1:30 - 1:55 p.m. EDT

(72) Ilya Shkredov, Purdue University
Email: ilya.shkredov@gmail.com
Title: On Korobov's optimal coefficients
In person: Monday, 2:00 - 2:55 p.m. EDT

(73) Aviral Srivastava, IIT Gandhinagar, India
Email: aviral.srivastava@iitgn.ac.in
Title: Non-Rascoe partitions and a rank parity function associated to the Rogers–Ramanujan partitions
Zoom: Saturday, 12:00 - 12:25 p.m. EDT

(74) Johann Thiel, New York College of Technology (CUNY)
Email: jthiel@citytech.cuny.edu
Title: Generating functions for maximally expanded α-trees
In person: 4:00 - 4:25 p.m. Tuesday 9:00 - 9:25 a.m. EDT

(75) Salvatore Tringali, Hebei Normal University, China
Email: salvo.tringali@gmail.com
Title: Power semigroups and two rigidity theorems for groups
Zoom: Friday, 2:00 - 2:25 p.m. EDT

(76) Laurence P. Wijaya, University of Kentucky
Email: laurence.wijaya@uky.edu
Title: Polynomial corners over finite fields
Zoom: Saturday, 3:30 - 3:55 p.m. EDT

(77) Trevor Dion Wooley, Purdue University
Email: twooley@purdue.edu
Title: Strong paucity in systems of diagonal equations
In person: Wednesday 3:30- 4:20 p.m. EDT

(78) Kiseok Yeon, University of California - Davis
Email: kyeon@ucdavis.edu
Title: On the density of rational lines on cubic diagonal hypersurfaces
Zoom: Saturday, 1:00 - 1:25 p.m. EDT

(79) Chi Hoi Yip, Hong Kong University of Science and Technology, Hong Kong
Email cyip30@gatech.edu
Title: Additive properties of multiplicatively defined sets
Zoom: Saturday, 10:30 - 10:55 a.m. EDT

(80) Semin Yoo, Institute for Basic Science, Korea
Email: syoo19@kias.re.kr
Title: Multiplicative irreducibility of shifted multiplicative subgroups
Zoom: Friday 9:00 - 9:25 a.m. EDT