CUNY Mathematics Seminars Bulletin - CUNY Ph.D. Program in Mathematics
---------- Fall 2019 | Tuesday, September 16, 2019 ----------

Unless otherwise noted, all seminars meet at the CUNY Graduate Center 365 Fifth Ave. NY, NY).
Seminars are listed below in chronological order, and show information for the current week and the following week's seminars based on the information provided by the seminar organizer. Always check the seminar's website (if provided) for the most current information including updates and abstracts. Special Events, if any, are listed at the end.

If you would like to sign up or change your email address to receive the weekly Seminar Bulletin, please visit: https://gc.listserv.cuny.edu/Scripts/wa-gc.exe?A0=MATHSEMINARGC. All other matters related to the seminars should be sent to mathseminars@gc.cuny.edu.

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MONDAY, September 16th

Student Dynamics Seminar
Meets: 12:00PM – 1:30PM, Rm. 5417
Speaker: NA

Algebraic Number Theory
Website: https://sites.google.com/site/gradcenterseminars/current-seminars/algebraic-number-theory-student-seminar
Meets: 2:00PM – 4:00PM, Rm. 4214.03
Speaker: NA

Einstein Chair Seminar
Website: http://www.gc.cuny.edu/Page-Elements/Academics-Research-Centers-Initiatives/Doctoral-Programs/Mathematics/Seminars/Einstein-Chair-Mathematics-Seminar
Meets: 2:00PM – 6:15PM, Rm. 6417
Speaker: NA

Graduate Student Colloquium
Website: https://sites.google.com/site/gradcenterseminars/current-seminars/graduate-student-colloquium
Meets: 4:15pm- 6:15pm, Rm. 5417
Speaker: Mahmoud Zeinalian
Title: Differential forms, iterated integrals, and the cohomology of the loop space.

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TUESDAY, September 17th

Working Group on Probabilistic Number Theory
Meets: 9:30AM – 11:30AM, Rm. 4214.03
Speaker: NA
Geometry & Topology Student Seminar
Website: http://www.math.csi.cuny.edu/abhijit/studentseminar/
Meets: 2:00PM – 3:00PM, Rm. 4214.03
Speaker: Abhijit Champanerkar
Title: Polyhedral decompositions of link complements in the 3-sphere and generalizations II

Hyperbolic Geometry Seminar
Website: https://sites.google.com/site/hyperbolicgeometryseminar/home
Meets: 3:00PM - 4:00PM, Rm. 4214.03
Speaker: Vincent Alberge, Fordham University
Title: Measured laminations and stratifications

CUNY Geometry & Topology Seminar
Website: http://comet.lehman.cuny.edu/behrstock/seminar/
Meets: 4:15PM - 5:15PM, Rm. 6417
Speaker: Thomas Ng, Temple
Title: Uniform exponential growth in groups with nonpositive curvature

CUNY Probability Seminar
Website: https://probability.commons.gc.cuny.edu/
Meets: 4:15PM - 5:30PM, Rm. 5417
Speaker: Konstantin Matetski, Columbia
Title: Convergence of finite-range weakly asymmetric exclusion processes on a ring.

WEDNESDAY, September 18th

Topology, Geometry and Physics I
Website: https://www.zenialian.com/seminar/
Meets: 10:00AM - 11:30AM, Rm. 6417
Speaker: Raymond Puzio
Title: Introduction to Quantum Field Theory

Topology, Geometry and Physics II
Website: https://www.zenialian.com/seminar
Meets: 12:00PM - 1:30PM, Rm. 6417
Speaker: Rob Thompson
Title: Introduction to spectral sequences for beginners

Topology, Geometry and Physics III
Website: https://www.zenialian.com/seminar
Meets: 2:00PM - 3:30PM, Rm. 6417
Speaker: Martin Bendersky
Title: The Bousfield Kan spectral sequence

Algebraic & Numerical Computation
Meets: 2:00PM - 6:15PM, Rm. 3305
Speaker:
Title: NA
Algebraic Topology Seminar
Website: http://math.hunter.cuny.edu/mbenders/seminar.html
Meets: 4:30PM - 5:30PM, Rm. 4214.03
Speaker:
Title: NA

Models of Peano Arithmetic
Website: https://nylogic.github.io/MOPA.html
Meets: 6:30PM – 8:30PM, Rm. 4214.03
Speaker: Alf Dolich, CUNY
Title: Henkin Constructions of Models with Size Continuum after Baldwin and Laskowski

NYC Category Theory Seminar
Website: http://www.sci.brooklyn.cuny.edu/~noson/CTseminar.html
Meets: 7:00PM - 8:30PM, Rm. 6417
Speaker: Gershom Bazerman
Title: Orientation meeting and starting Introduction to Higher-Order Categorical Logic.

THURSDAY, September 19th

Symbolic-Numeric Computing Seminar
Website: http://qcpages.qc.cuny.edu/~aovchinnikov/seminar.html
Meets: 2:00PM – 4:00PM, Rm. 6496
Speaker:
Title: NA

New York Number Theory Seminar
Website: http://www.math.rutgers.edu/~bumby/nyntsem/
Meets: 2:45PM - 4:00PM, Rm. 4419
Speaker: Sandie Han and Johann Thiel, NYCTC
Title: Subgroups of SL_2 (Z) characterized by certain continued fraction representations

CUNY Geometric Analysis Seminar
Website: https://bsantoro.ccny.cuny.edu/GCSeminar.html
Meets: 3:00PM – 4:00PM, Rm. 6496(Double Header)
Speaker: Charles Ouyang, Rice University
Title: High Energy Harmonic Maps and Degeneration of Minimal Surfaces
Speaker: Mohameden Ahmedou, University of Giessen
Title: Morse theory and the resonant $Q$-curvature problem
This is a joint event with the Nonlinear Analysis and PDEs seminar.

Nonlinear Analysis and PDEs Seminar
Website: https://www.math.csi.cuny.edu/~mlucia/GCactivities.html
Meets: 4:15PM - 5:15PM, Rm. 6496
Speaker: Mohameden Ahmedou, Giessen University (Germany)
Title: Morse theory and the resonant $Q$-curvature problem
Research Training Group in Number Theory Seminar
Website: http://www.math.columbia.edu/~goldfeld/ScheduleJointNTS33.html
Meets: 4:00PM – 5:00PM, Rm. TBA
Speaker:
Title: NA
Tea: 5:00PM – 5:30PM in Rm. TBA
NOTE: The RTG talk is aimed at graduate students and post-docs.

New York Joint Columbia-CUNY-NYU Number Theory Seminar
Website: http://www.math.columbia.edu/~goldfeld/ScheduleJointNTS33.html
Meets: 5:30PM - 7:00PM, Rm. TBA
Speaker:
Title: NA
Tea: 5:00PM – 5:30PM in Rm. TBA

FRIDAY, September 20th

Number Theory Student Seminar
Meets: 10:00AM – 11:30M, Rm. 4419
Speaker: Kevin O’Bryant, CSI and Graduate Center
Title: Interval arithmetic and global optimization: The Moore-Skelboe algorithm

Set Theory Seminar
Website: https://nylogic.github.io/set-theory-seminar.html
Meets: 10:00AM - 11:45AM, Rm. 6417
Speaker: Sam Coskey, Boise State University
Title: Jumps of equivalence relations and scattered linear orders

Kolchin Seminar in Differential Algebra
Website: http://qcpages.qc.cuny.edu/~aovchinnikov/ksda/
Meets: 10:15AM – 11:30AM, Rm. 5382
Speaker:
Title: NA

Extremal Length Seminar
Website: http://userhome.brooklyn.cuny.edu/gardiner/notes.html
Meets: 10:30AM - 12:00PM, Rm. 4214.03
Speaker:
Title: NA

Almost Complex Geometry
Website: http://qcpages.qc.cuny.edu/~swilson/ACGsem.html
Meets: 11:45AM – 1:45PM, Rm. 3212
Speaker: Santiago Simanca
Title: Orthogonal complex structures on products of even spheres

New York Combinatorics Seminar
Website: http://userhome.brooklyn.cuny.edu/skingan/CombinatoricsSeminar/index.html
Meets: 11:45AM - 12:45PM, Rm. 4422
Speaker: Kerry Ojakian, BMCC, CUNY
Title: Bounding the k-rainbow total domination number
Study Group in Number Theory
Meets: 11:45PM - 1:45PM, Rm. 5417
Speaker: Heidi Goodson, Brooklyn College
Title: Sato-Tate Groups of Trinomial Hyperelliptic Curves

Data Science and Applied Topology
Website: http://cunygc.appliedtopology.nyc/
Meets: 11:45AM - 1:45PM, Rm. 4419
Speaker: Art Dikyom
Title: NA

CUNY Representation Theory Seminar
Website: https://sites.google.com/site/cunyrt/
Meets: 1:00PM – 1:45PM, Rm. 3307
Speaker: Yasuyoshi Yonezawa
Title: Braid group actions from categorical Howe duality on a category of matrix factorizations and a bimodule category of deformed Webster algebra (joint with the Columbia Symplectic Geometry, Gauge Theory, and Categorification Seminar)

Model Theory Seminar
Website: http://nylogic.org/model-theory
Meets: 12:30PM - 2:00PM, Rm. 6417
Speaker: Matěj Konečný, Charles University
Title: Extending partial automorphisms of structures

BEAG seminar (Beginners Explorations in Algebraic Geometry)
Website: https://lagcc-cuny.digication.com/beag/SPRING_2019 [lagcc-cuny.digication.com]
Meets: 3:00PM – 4:00PM, Rm. 4433
Speaker:
Title: NA

Complex Analysis and Dynamics Seminar
Website: http://qcpages.qc.cuny.edu/~zakeri/seminar.html
Meets: 2:00PM - 3:30PM, Rm. 5417
Speaker:
Title: NA

CUNY Logic Workshop
Website: https://nylogic.github.io/logic-workshop.html
Meets: 2:00PM – 3:30PM, Rm. 6417
Speaker: Artem Chernikov, UCLA
Title: N-dependent groups and fields

Discrete Geometry Seminar
Website: https://geometrynycc.wixsite.com/home/nyc-geometry-seminar
Meets: 2:00PM – 4:00PM, Rm. 5383
Speaker:
Title: NA
Harmonic Analysis and PDE’s Seminar
Website: https://sites.google.com/site/mathphysseminar/
Meets: 2:00PM – 4:00PM, Rm. 4419
Speaker:
Title: NA
No meeting today

Kolchin Afternoon Seminar in Differential Algebra
Website: http://qcpages.gc.cuny.edu/~aovchinnikov/kdsa/
Meets: 2:00PM – 4:00PM, Rm. 5382
Speaker:
Title: NA

Collaborative Number Theory Seminar
Website: http://qcpages.gc.cuny.edu/~msabitova/CNTS.html
Meets: 2:00PM – 3:30PM, Rm. TBA
Speaker:
Title: NA

Algebra and Cryptography Seminar
Website: http://www.sci.ccny.cuny.edu/~shpil/algcryp.html
Meets: 2:30PM – 4:30PM, Rm. 3307
Speaker:
Title: NA

NY Group Theory Seminar
Website: https://sites.google.com/site/nygrouptheory/new-york-group-theory-seminar/fall-2019
Meets: 4:00PM – 5:30PM, Rm. 5417
Speaker: Susan Hermiller, University of Nebraska
Title: Algorithms for groups of PL homeomorphisms

Algebraic & Numerical Computation
Meets: 4.15 PM - 6:15PM, Rm. 4214.03
4:15PM- 5:00PM Speaker: Victor Pan, CUNY, The Graduate Center and Lehman College.
Title: Low Rank Approximation of Matrices and Tensors II.
5:15PM- 6:15PM Speaker: Vitaly Zaderman, CUNY, The Graduate Center.
Title: Solving a Polynomial Equation: Algorithmic Issues II.

Commutative Algebra & Algebraic Geometry Seminar
Webpage: http://websupport1.citytech.cuny.edu/Faculty/hschoutens/CAAG.html
Meets: 4:00PM – 5:15PM, Rm. 6417
Speaker: Hans Schoutens, CityTech and the CUNY Graduate Center
Title: Generalized Hasse-Schmidt derivations

Learning Seminar: Introduction to modular forms
Meets: 4:15PM – 5:45PM, Rm. 5382
Speaker: Kris Klosin
Title: Fourier expansions of modular forms

Seminar in Logic, Games, and Language
Meets: 4:15PM – 6:15PM, Rm. 4421
Speaker: Arthur Paul Pedersen, Brooklyn College
Title: Amartya Sen: Welfare Aggregation and Measurability
MONDAY, September 23rd

**Student Dynamics Seminar**
Meets: 12:00PM – 1:30PM, Rm. 5417
Speaker:
Title: NA

**Algebraic Number Theory**
Website: [https://sites.google.com/site/gradcenterseminars/current-seminars/algebraic-number-theory-student-seminar](https://sites.google.com/site/gradcenterseminars/current-seminars/algebraic-number-theory-student-seminar)
Meets: 2:00PM – 4:00PM, Rm. 4214.03
Speaker:
Title: NA

**Einstein Chair Seminar**
Website: [http://www.gc.cuny.edu/Page-Elements/Academics-Research-Centers-Initiatives/Doctoral-Programs/Mathematics/Seminars/Einstein-Chair-Mathematics-Seminar](http://www.gc.cuny.edu/Page-Elements/Academics-Research-Centers-Initiatives/Doctoral-Programs/Mathematics/Seminars/Einstein-Chair-Mathematics-Seminar)
Meets: 2:00PM – 6:15PM, Rm. 6417
Speaker:
Title: NA

**Graduate Student Colloquium**
Website: [https://sites.google.com/site/gradcenterseminars/current-seminars/graduate-student-colloquium](https://sites.google.com/site/gradcenterseminars/current-seminars/graduate-student-colloquium)
Meets: 4:15pm- 6:15pm, Rm. 5417
Speaker: Shirshendu Chatterjee
Title: NA

TUESDAY, September 24th

**Working Group on probabilistic Number Theory**
Meets: 9:30AM – 11:30AM, Rm. 4214.03
Speaker:
Title: NA

**Geometry & Topology Student Seminar**
Website: [http://www.math.csi.cuny.edu/abhijit/studentseminar/](http://www.math.csi.cuny.edu/abhijit/studentseminar/)
Meets: 2:00PM – 3:00PM, Rm. 4214.03
Speaker: Alexander Stas
Title: Geometry of toroidal decompositions of semi-regular links

**Hyperbolic Geometry Seminar**
Website: [https://sites.google.com/site/hyperbolicgeometryseminar/home](https://sites.google.com/site/hyperbolicgeometryseminar/home)
Meets: 3:00PM - 4:00PM, Rm. 4214.03
Speaker: Jane Gilman, Rutgers University, Newark
Title: Computability Models: Algebraic, Topological and Geometric Algorithms
CUNY Geometry & Topology Seminar
Website: http://comet.lehman.cuny.edu/behrstock/seminar/
Meets: 4:15PM - 5:15PM, Rm. 6417
Speaker: Adam Lowrance, Vassar College
Title: The Jones polynomial and Khovanov homology of Turaev genus one links

CUNY Probability Seminar
Website: https://probability.commons.gc.cuny.edu/
Meets: 4:15PM – 5:30PM, Rm. 5417
Speaker: Michel Pain, NYU
Title: NA

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WEDNESDAY, September 25th

Topology, Geometry and Physics I
Website: https://www.zeinalian.com/seminar/
Meets: 10:00AM - 11:30AM, Rm. 6417
Speaker: Introduction to Quantum Field Theory
Title: NA

Topology, Geometry and Physics II
Website: https://www.zeinalian.com/seminar
Meets: 12:00PM - 1:30PM, Rm. 6417
Speaker: Micah Miller
Title: Model category structure on diagrams

Topology, Geometry and Physics III
Website: https://www.zeinalian.com/seminar
Meets: 2:00PM - 4:00PM, Rm. 6417
Speaker: Kris Klosin
Title: Modular forms and applications to arithmetic

Algebraic & Numerical Computation
Meets: 2:00PM - 6:15PM, Rm. 3305
Speaker:
Title: NA

Algebraic Topology Seminar
Website: http://math.hunter.cuny.edu/mbenders/seminar.html
Meets: 4:30PM - 5:30PM, Rm. 4214.03
Speaker: Peter Patzt, Purdue University
Title: Tails of FI-modules

Models of Peano Arithmetic
Website: https://nylogic.github.io/MOPA.html
Meets: 6:30PM – 8:30PM, Rm. 4214.03
Speaker:
Title: NA
NYC Category Theory Seminar
Website: http://www.sci.brooklyn.cuny.edu/~noson/CTseminar.html
Meets: 7:00PM - 8:30PM, Rm. 6417
Speaker: NA
Title: NA

Symbolic-Numeric Computing Seminar
Website: http://qcpages.qc.cuny.edu/~aovchinnikov/seminar.html
Meets: 2:00PM – 4:00PM, Rm. 6496
Speaker: Cleveland Waddell, Evergreen State College
Title: NA

New York Number Theory Seminar
Website: http://www.math.rutgers.edu/~bumby/nyntsem/
Meets: 2:45PM - 4:00PM, Rm. 4419
Speaker: NA
Title: NA

CUNY Geometric Analysis Seminar
Website: https://bsantoro.ccny.cuny.edu/GCSeminar.html
Meets: 3:00PM – 4:00PM, Rm. 6496
Speaker: NA
Title: NA

Nonlinear Analysis and PDEs Seminar
Website: https://www.math.csi.cuny.edu/~mlucia/GCactivities.html
Meets: 4:15PM - 5:15PM, Rm. 6496
Speaker: NA
Title: NA

Research Training Group in Number Theory Seminar
Website: http://www.math.columbia.edu/~goldfeld/ScheduleJointNTS33.html
Meets: 4:00PM – 5:00PM, Rm. TBA
Speaker: NA
Tea: 5:00PM – 5:30PM in Rm. TBA
NOTE: The RTG talk is aimed at graduate students and post-docs.

New York Joint Columbia-CUNY-NYU Number Theory Seminar
Website: http://www.math.columbia.edu/~goldfeld/ScheduleJointNTS33.html
Meets: 5:30PM - 7:00PM, Rm. TBA
Speaker: NA
Title: NA
Tea: 5:00PM – 5:30PM in Rm. TBA

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FRIDAY, September 27th

**Number Theory Student Seminar**
Meets: 10:00AM – 11:30M, Rm. 4419
Speaker:
Title: NA

**Set Theory Seminar**
Website: [https://nylogic.github.io/set-theory-seminar.html](https://nylogic.github.io/set-theory-seminar.html)
Meets: 10:00AM - 12:00PM, Rm. 6417
Speaker:
Title: NA

**Kolchin Seminar in Differential Algebra**
Website: [http://qcpages.qc.cuny.edu/~aovchinnikov/ksda/](http://qcpages.qc.cuny.edu/~aovchinnikov/ksda/)
Meets: 10:00AM – 11:30AM, Rm. 5382
Speaker:
Title: NA

**Extremal Length Seminar**
Website: [http://userhome.brooklyn.cuny.edu/gardiner/notes.html](http://userhome.brooklyn.cuny.edu/gardiner/notes.html)
Meets: 10:30AM - 12:00PM, Rm. 4214.03
Speaker:
Title: NA

**Almost Complex Geometry**
Website: [http://qcpages.qc.cuny.edu/~swilson/ACGsem.html](http://qcpages.qc.cuny.edu/~swilson/ACGsem.html)
Meets: 11:45AM – 1:45PM, Rm. 3212
Speaker: Xujia Chen, Stony Brook
Title: NA

**New York Combinatorics Seminar**
Website: [http://userhome.brooklyn.cuny.edu/skingan/CombinatoricsSeminar/index.html](http://userhome.brooklyn.cuny.edu/skingan/CombinatoricsSeminar/index.html)
Meets: 11:45AM - 12:45PM, Rm. 4422
Speaker:
Title: NA

**Study Group in Number Theory**
Meets: 11:45PM - 1:45PM, Rm. 5417
Speaker: Larry Rolen, Vanderbilt University
Title: Periodicities for Taylor coefficients of half-integral weight modular forms

**Data Science and Applied Topology**
Website: [http://cunygc.appliedtopology.nyc/](http://cunygc.appliedtopology.nyc/)
Meets: 11:45AM - 1:45PM, Rm. 4419
Speaker:
Title: NA

**CUNY Representation Theory Seminar**
Website: [https://sites.google.com/site/cunyrt/](https://sites.google.com/site/cunyrt/)
Meets: 1:00PM – 1:45PM, Rm 3307
Speaker:
Title: NA
Model Theory Seminar  
Website: http://nylogic.org/model-theory  
Meets: 12:30PM - 1:45PM, Rm. 6417  
Speaker:  
Title: NA

BEAG seminar (Beginners Explorations in Algebraic Geometry)  
Website: https://lagcc-cuny.digication.com/beag/FALL_2018  
Meets: 3:00PM – 4:00PM, Rm. 4433  
Speaker:  
Title: NA

Complex Analysis and Dynamics Seminar  
Website: http://qcpages.gc.cuny.edu/~zakeri/seminar.html  
Meets: 2:00PM - 3:30PM, Rm. 5417  
Speaker:  
Title: NA

CUNY Logic Workshop  
Website: https://nylogic.github.io/logic-workshop.html  
Meets: 2:00PM – 3:45PM, Rm. 6417  
Speaker: Alf Dolich, CUNY  
Title: NA

Discrete Geometry Seminar  
Website: https://geometrynyc.wixsite.com/home/nyc-geometry-seminar  
Meets: 2:00PM – 4:00PM, Rm. 5383  
Speaker: Steven Hoehner, Longwood University  
Title: Intrinsic and dual volume deviations of convex bodies and polytopes

Harmonic Analysis and PDE’s Seminar  
Website: https://sites.google.com/site/mathphysseminar/  
Meets: 2:00PM – 4:00PM, Rm. 4419  
Speaker: Mihalis Mourgoglou, University of the Basque Country  
Title: Regularity theory and Green’s function for elliptic equations with lower order terms in unbounded domains.

Kolchin Afternoon Seminar in Differential Algebra  
Website: http://qcpages.gc.cuny.edu/~aovchinnikov/ksda/  
Meets: 2:00PM – 4:00PM, Rm. 5382  
Speaker:  
Title: NA

Collaborative Number Theory Seminar  
Website: http://qcpages.gc.cuny.edu/~msabitova/CNTS.html  
Meets: 2:00PM – 3:30PM, Rm. TBA  
Speaker:  
Title: NA
Algebra and Cryptography Seminar  
Website: http://www.sci.ccny.cuny.edu/~shpil/algcryp.html  
Meets: 2:30PM – 4:30PM, Rm. 3307  
Speaker:  
Title: NA

NY Group Theory Seminar  
Website: https://sites.google.com/site/nygrouptheory/new-york-group-theory-seminar/fall-2019  
Meets: 4:00PM – 5:30PM, Rm. 5417  
Speaker:  
Title: NA

Commutative Algebra & Algebraic Geometry Seminar  
Webpage: http://websupport1.citytech.cuny.edu/Faculty/hschoutens/CAAG.html  
Meets: 4:00PM – 5:15PM, Rm. 6417  
Speaker:  
Title: NA

Learning Seminar: Introduction to modular forms  
Meets: 4:15PM – 5:45PM, Rm. 5382  
Speaker:  
Title: NA

Seminar in Logic, Games, and Language  
Meets: 4:15PM – 6:15PM, Rm. 4421  
Speaker: Ignacio Ojea Quintana, Australian National University  
Title: NA

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Upcoming Events

Short Talks  
October 2, 2019  
Meets: 3:00PM – 5:00PM, Rm. 4214 (Math Lounge)  
Speaker: 2 Students  
30 min talk from each students

Math Colloquium  
October 28, 2019  
Meets: 5:00PM- 7:00PM, Rm. 4214 (Math Lounge)  
Speaker: Iliya Kapovich, Hunter College and CUNY Graduate Center  
Title: Counting closed geodesics in the moduli space of Outer space: double exponential growth

GC Math Fest  
November 8, 2019  
Meets: 10:30am – 3:45pm, Rm.4214 (Math Lounge)  
Speaker: Various Speakers
Title: Various Titles