

**CUNY Mathematics Seminars Bulletin - CUNY Ph.D. Program in Mathematics**  
----- **Fall 2019 | Tuesday, September 9, 2019** -----

Unless otherwise noted, all seminars meet at the CUNY Graduate Center, located at 365 Fifth Ave. (at 34th St.), NYC. Seminars are listed below in chronological order, and show dates for the upcoming two weeks. Special Events, if any, are listed at the end. A seminar's website, if available, may contain abstracts of the talks plus additional information. Note: A pdf version of this bulletin is attached in case the formatting of the text below is thrown off on your screen. Matters related to the seminars should be sent to [mathseminars@gc.cuny.edu](mailto:mathseminars@gc.cuny.edu)

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**MONDAY, September 9<sup>th</sup>**

**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>  
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>  
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>  
Meets: 4:15pm- 6:15pm, Rm. 5417  
Speaker: Ara Basmajian  
Title: NA

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**TUESDAY, September 10<sup>th</sup>**

**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/>  
Meets: 2:00PM – 3:00PM, Rm. 4214.03  
Speaker: Abhijit Champanerkar  
Title: Polyhedral decompositions of link complements in the 3-sphere and generalizations

### **Hyperbolic Geometry Seminar**

Website: <https://sites.google.com/site/hyperbolicgeometryseminar/home>

Meets: 3:00PM - 4:00PM, Rm. 4214.03

Speaker: Edgar Bering, Temple University

Title: Special covers of alternating links

### **CUNY Geometry & Topology Seminar**

Website: <http://comet.lehman.cuny.edu/behstock/seminar/>

Meets: 4:15PM - 5:15PM, Rm. 6417

Speaker: Heejoung Kim, UIUC

Title: Algorithms detecting stability and Morseness for finitely generated groups

### **CUNY Probability Seminar**

Website: <https://probability.commonsc.gc.cuny.edu/>

Meets: 4:15PM - 5:30PM, Rm. 5417

Speaker: Guillaume Dubach, CUNY

Title: Words of non-Hermitian random matrices

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## **WEDNESDAY, September 11<sup>th</sup>**

### **Topology, Geometry and Physics I**

Website: <https://www.zeinalian.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.zeinalian.com/seminar>

Meets: 12:00PM - 1:30PM, Rm. 6417

Speaker: Collective Participation

Title: Working with students on some fundamental concepts

### **Topology, Geometry and Physics III**

Website: <https://www.zeinalian.com/seminar>

Meets: 2:00PM - 4:00PM, Rm. 6417

Speaker: Martin Bendersky

Title: The Bousfield Kan completion

### **Algebraic & Numerical Computation**

Meets: 2:00PM - 6:15PM, Rm. 3305

Speaker: Vitaly Zaderman, CUNY, The Graduate Center

Title: Solving a Polynomial Equation: Algorithmic Issues I.

4.15 p.m. Speaker: Victor Pan, CUNY, The Graduate Center and Lehman College

Title: Low Rank Approximation of Matrices and Tensors I.

### **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:

Title: NA

### **NYC Category Theory Seminar**

Website: <http://www.sci.brooklyn.cuny.edu/~noson/CTseminar.html>

Meets: 7:00PM - 8:30PM, Rm. 6417

Speaker:

Title: NA

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## **THURSDAY, September 12<sup>th</sup>**

### **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: Mel Nathanson

Title: Sinkhorn limits in finitely many steps

### **CUNY Geometric Analysis Seminar**

Website: <https://bsantoro.ccny.cuny.edu/GCSeminar.html>

Meets: 3:00PM – 4:00PM, Rm. 3212

Speaker: Markus Upmeyer, University of Oxford

Title: Spin structures and orientation data for CY3

### **Nonlinear Analysis and PDEs Seminar**

Website:

<https://www.math.csi.cuny.edu/~mlucia/GCactivities.html>

Meets: 4:15PM - 5:15PM, Rm. 6496

Speaker:

Title: NA

No meeting today

### **Research Training Group in Number Theory Seminar**

Website: <http://www.math.columbia.edu/~goldfeld/ScheduleJointNTS33.html>

Meets: 4:00PM – 5:00PM, Rm. 4102

Speaker:

Title: NA

Tea: 5:00PM – 5:30PM in Rm. 4102

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. 4102

Speaker:

Title: NA

Tea: 5:00PM - 5:30PM in Rm. 4102

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### **FRIDAY, September 13<sup>th</sup>**

#### **Number Theory Student Seminar**

Meets: 10:00AM - 11:30M, Rm. 4419

Speaker: Mel Nathanson

Title: The max-flow min-cut theorem for integers and matchings in bipartite graphs

#### **Set Theory Seminar**

Website: <https://nylogic.github.io/set-theory-seminar.html>

Meets: 10:00AM - 12:00PM, Rm. 6417

Speaker: Gunter Fuchs, CUNY

Title: Simultaneous exact reflection and mutual stationarity

#### **Kolchin Seminar in Differential Algebra**

Website: <http://qcpages.qc.cuny.edu/~aovchinnikov/ksda/>

Meets: 10:15AM - 11:30AM, Rm. 5382

Speaker: Daniel Robertz, University of Plymouth

Title: Algorithmic Approach to Strong Consistency Analysis of Finite Difference Approximations to PDE Systems

#### **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: Prof. Luis Fernandez, BCC- CUNY

Title: Basics on almost complex manifolds

#### **New York Combinatorics Seminar**

Website: <http://userhome.brooklyn.cuny.edu/skingan/CombinatoricsSeminar/index.html>

Meets: 11:45AM - 12:45PM, Rm. 4422

Speaker:

Title: NA

First seminar will start on September 20<sup>th</sup>

#### **Study Group in Number Theory**

Meets: 11:45PM - 1:45PM, Rm. 5417

Speaker:

Title: NA

### **Data Science and Applied Topology**

Website: <http://cunygc.appliedtopology.nyc/>

Meets: 11:45AM - 1:45PM, Rm. 4419

Speaker: Mikael Vejdemo-Johansson

Title: NA

### **CUNY Representation Theory Seminar**

Website: <https://sites.google.com/site/cunyrts/>

Meets: 1:00PM - 1:45PM, Rm (Math 407 Columbia, special time)

Speaker: Daniel Tubbenhauer, University of Zurich

Title: 2-representations of Soergel bimodules

(Joint with the Columbia Symplectic Geometry, Gauge Theory, and Categorification Seminar, 1pm Columbia Math 407)

### **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/SPRING\\_2019](https://lagcc-cuny.digication.com/beag/SPRING_2019) [[lagcc-cuny.digication.com](http://lagcc-cuny.digication.com)]

Meets: 3:00PM - 4:00PM, Rm. 4433

Speaker:

Title: NA

First seminar will start September 20<sup>th</sup>

### **Complex Analysis and Dynamics Seminar**

Website: <http://qcpages.qc.cuny.edu/~zakeri/seminar.html>

Meets: 2:00PM - 3:30PM, Rm. 3212

Speaker:

Title: NA

### **CUNY Logic Workshop**

Website: [https://nylogic.github.io/\[nylogic.github.io](https://nylogic.github.io/[nylogic.github.io)

Meets: 2:00PM - 3:45PM, Rm. 6417

Speaker:

Title: NA

### **Discrete Geometry Seminar**

Website: <https://geometrynyc.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: Krystal Taylor, Ohio State University

Title: The Buffon-circle problem via a quantification of the Besicovitch projection theorem

**Kolchin Afternoon Seminar in Differential Algebra**

Website: <http://qcpages.qc.cuny.edu/~aovchinnikov/ksda/>

Meets: 2:00PM – 4:00PM, Rm. 5382

Speaker:

Title: NA

**Collaborative Number Theory Seminar**

Website: <http://qcpages.qc.cuny.edu/~msabitova/CNTS.html>

Meets: 2:00PM – 3:30PM, Rm. TBA

Speaker:

Title: NA

**Algebra and Cryptography Seminar**

Website: <http://www.sci.ccnycuny.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: Heejoung Kim, University of Illinois at Urbana Champaign

Title: Algorithms detecting stability and Morseness for finitely generated groups

**Commutative Algebra & Algebraic Geometry Seminar**

Webpage: <http://websupport1.citytech.cuny.edu/Faculty/hschoutens/CAAG.html>

Meets: 4:15PM – 5:15PM, Rm. 6417

Speaker:

Title: NA

**Learning Seminar: Introduction to modular forms**

Meets: 4:15PM – 5:45PM, Rm. 5382

Speaker: Kris Klosin

Title: Eisenstein series and the Riemann zeta function

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**MONDAY, September 16<sup>th</sup>**

**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>

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>

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>

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 17<sup>th</sup>**

### **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/>

Meets: 2:00PM – 3:00PM, Rm. 4214.03

Speaker:

Title: NA

### **Hyperbolic Geometry Seminar**

Website: <https://sites.google.com/site/hyperbolicgeometryseminar/home>

Meets: 3:00PM - 4:00PM, Rm. 4214.03

Speaker:

Title: NA

### **CUNY Geometry & Topology Seminar**

Website: <http://comet.lehman.cuny.edu/behrstock/seminar/>

Meets: 4:15PM - 5:15PM, Rm. 6417

Speaker: Thomas Ng, Temple

Title: NA

### **CUNY Probability Seminar**

Website: <https://probability.common.gc.cuny.edu/>

Meets: 4:15PM – 5:30PM, Rm. 5417

Speaker: Konstantin Matetski, Columbia

Title: NA

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## **WEDNESDAY, September 18<sup>th</sup>**

### **Topology, Geometry and Physics I**

Website: <https://www.zeinalian.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.zeinalian.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.zeinalian.com/seminar>  
Meets: 2:00PM - 4:00PM, 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:  
Title: NA

**NYC Category Theory Seminar**

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

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**THURSDAY, September 19<sup>th</sup>**

**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:

Title: NA

**CUNY Geometric Analysis Seminar**

Website: <https://bsantoro.ccny.cuny.edu/GCSeminar.html>

Meets: 3:00PM - 4:00PM, Rm. 3212

Speaker: Charles Ouyang, Rice University

Title: High Energy Harmonic Maps and Degeneration of Minimal Surfaces

**Nonlinear Analysis and PDEs Seminar**

Website:

<https://www.math.csi.cuny.edu/~mlucia/GCactivities.html>

Meets: 4:15PM - 5:15PM, Rm. 6496

Speaker:

Title: NA

**Research Training Group in Number Theory Seminar**

Website: <http://www.math.columbia.edu/~goldfeld/ScheduleJointNTS33.html>

Meets: 4:00PM - 5:00PM, Rm. 4102

Speaker:

Title: NA

Tea: 5:00PM - 5:30PM in Rm. 4102

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. 4102

Speaker:

Title: NA

Tea: 5:00PM - 5:30PM in Rm. 4102

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**FRIDAY, September 20<sup>th</sup>**

**Number Theory Student Seminar**

Meets: 10:00AM - 11:30M, Rm. 4419

Speaker: Kevin O'Bryant

Title: NA

**Set Theory Seminar**

Website: <https://nylogic.github.io/set-theory-seminar.html>

Meets: 10:00AM - 12:00PM, Rm. 6417

Speaker: Sam Coskey, Boise State University

Title: NA

### **Kolchin Seminar in Differential Algebra**

Website: <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>

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:

Title: NA

### **New York Combinatorics Seminar**

Website: <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:

Title: NA

### **Data Science and Applied Topology**

Website: <http://cunygc.appliedtopology.nyc/>

Meets: 11:45AM - 1:45PM, Rm. 4419

Speaker:

Title: NA

### **CUNY Representation Theory Seminar**

Website: <https://sites.google.com/site/cunyrts/>

Meets: 1:00PM – 1:45PM, Rm (Math 407 Columbia, special time)

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 - 1:45PM, Rm. 6417

Speaker:

Title: NA

### **BEAG seminar (Beginners Explorations in Algebraic Geometry)**

Website: [https://lagcc-cuny.digication.com/beag/FALL\\_2018](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.qc.cuny.edu/~zakeri/seminar.html>

Meets: 2:00PM - 3:30PM, Rm. 3212

Speaker:  
Title: NA

### **CUNY Logic Workshop**

Website: [https://nylogic.github.io/\[nylogic.github.io](https://nylogic.github.io/[nylogic.github.io)

Meets: 2:00PM - 3:45PM, Rm. 6417

Speaker: Artem Chernikov, UCLA  
Title: NA

### **Discrete Geometry Seminar**

Website: <https://geometrynyc.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.qc.cuny.edu/~aovchinnikov/ksda/>

Meets: 2:00PM - 4:00PM, Rm. 5382

Speaker:  
Title: NA

### **Collaborative Number Theory Seminar**

Website: <http://qcpages.qc.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: NA

**Commutative Algebra & Algebraic Geometry Seminar**

Webpage: <http://websupport1.citytech.cuny.edu/Faculty/hschoutens/CAAG.html>

Meets: 4:15PM – 5:15PM, Rm. 6417

Speaker:

Title: NA

**Learning Seminar: Introduction to modular forms**

Meets: 4:15PM – 5:45PM, Rm. 5382

Speaker:

Title: NA