Unseen otherwise noted, all seminars meet at the CUNY Graduate Center, 365 Fifth Ave. (at 34th St.), NYC. Seminars are listed below in chronological order, and show dates for the upcoming three 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. Please send any corrections or additions to: mathematics@gc.cuny.edu.

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**TUESDAY, FEB. 24TH**

**Computational Logic Seminar**  
website: [http://nylogic.org/computational-logic-seminar](http://nylogic.org/computational-logic-seminar)  
Meets: 2:00PM - 4:00PM, RM. 6421  
Speaker: Sergei Artemov (CUNY Graduate Center)  
Title: "Syntactic Epistemic Logic and Games, II"

**Differential Geometry Seminar**  
website: [http://qcpages.qc.cuny.edu/~dlee2/seminar.html](http://qcpages.qc.cuny.edu/~dlee2/seminar.html)  
Meets: 2:45PM - 4:00PM, Rm. 3207  
Speaker: Steven Kleene (Brown Univ.)  
Title: "Minimal Laminations With Prescribed Singularities"

**CUNY Geometry and Topology Seminar**  
website: [http://comet.lehman.cuny.edu/behrstock/seminar/](http://comet.lehman.cuny.edu/behrstock/seminar/)  
Meets 4:15PM - 6:15PM, Rm. 3212  
Speaker: Steven Frankel (Yale Univ.)  
Title: "Coarse Geometry and Closing Lemmas"

**CUNY Probability Seminar**  
website: [http://www.math.csi.cuny.edu/probability/](http://www.math.csi.cuny.edu/probability/)  
Meets: 4:15PM - 5:30PM, Rm.5417  
Speaker: Daniel Fresen (Yale Univ.)  
Title: "Asymptotic structure of Large Random samples: Global Shape and Local Limiting Poisson Process"

**Study Group in Number Theory**  
Meets: 5:00PM - 6:30PM, Rm. 4214-03  
Speaker: Karen Taylor (Bronx Comm. College)  
Title: "Indefinite Binary Quadratic Forms and Zeta Functions"

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**WEDNESDAY, FEB. 25TH**

**Dynamics and Analysis Student Seminar**  
website:  
[http://qcpages.qc.cuny.edu/~yjiang/HomePageYJ/LinkPages/StudentSeminars.htm](http://qcpages.qc.cuny.edu/~yjiang/HomePageYJ/LinkPages/StudentSeminars.htm)  
Meets: 10:30AM - 12:00PM, Rm. 4214.03  
Speaker: Ms. Alice Kwon (CUNY Graduate Center)
Topic: Sections 2.4 - 2.6 of book "Quadratic Differentials" by Strebel

**Dynamics and Complex Analysis Research Seminar**
website: [http://qcpages.qc.cuny.edu/~yjiang/HomePageYJ/LinkPages/ResearchSeminars.htm](http://qcpages.qc.cuny.edu/~yjiang/HomePageYJ/LinkPages/ResearchSeminars.htm)
Meets: 1:30PM - 3:00PM, Rm. 4214-03
Speaker: Yoshihico Shinomiya (Waseda Univ.)
Title: "Veech Groups of Veech Surfaces and Periodic Points"

**Extremal Length Geometry Seminar**
website: [http://qcpages.qc.cuny.edu/~yjiang/HomePageYJ/LinkPages/ExtLengthSeminar.htm](http://qcpages.qc.cuny.edu/~yjiang/HomePageYJ/LinkPages/ExtLengthSeminar.htm)
Meets: 3:30PM - 4:55PM, Rm. 4214.03
Speaker: Fred Gardiner (Brooklyn College & The CUNY Graduate Center)
Title: "Kobayashi's and Carathéodory's metrics on Teichmuller space, IV"

**Models of Peano Arithmetic Seminar [MOPA Seminar]**
website: [http://nylogic.org/MOPA](http://nylogic.org/MOPA)
Meets: 4:50PM - 5:50PM, Rm. 6300
Speaker: Petr Glivický (Charles Univ.)
Title: "Definability in linear fragments of Peano arithmetic, II"

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**THURSDAY, FEB. 26TH**

**New York Number Theory Seminar**
website: [http://www.math.rutgers.edu/~bumby/nyntsem/](http://www.math.rutgers.edu/~bumby/nyntsem/)
Meets: 3:00PM - 4:00PM, Rm. 8202
Speaker: Mel Nathanson (Lehman College & the CUNY Graduate Center)
Title: "CenterDickson's Lemma and the Asymptotics of Sumsets"

**Symbolic-Numeric Computing Seminar**
website: [http://qcpages.qc.cuny.edu/~aovchinnikov/seminar.html](http://qcpages.qc.cuny.edu/~aovchinnikov/seminar.html)
Meets 3:15PM - 4:10PM, Rm. 3209
Speaker: Robert Lewis (Fordham Univ.)
Title: "Symbolic-Numeric Problems, Image Analysis, and Parametric Polynomial Systems”

**RTG New York Joint Columbia-CUNY-NYU Number Theory Seminar**
website: [http://wfs.qc.cuny.edu/lszpiro/www/#jointsem](http://wfs.qc.cuny.edu/lszpiro/www/#jointsem)
Meets: 4:00PM - 4:45PM at Columbia Univ. Today, Rm. 622
Speaker: Kartik Prasanna (Univ. of Michigan and IAS)
Title: “Extensions of the Gross-Zagier Formula”
Tea: 5:00PM - 5:30PM, Rm. Math Lounge 5th floor
Note: The RTG talk is aimed at graduate students and post-docs; regular faculty are requested not to attend

**Computer Science Colloquium**
website: [http://www.gc.cuny.edu/Public-Programming/Calendar/Detail?id=29470](http://www.gc.cuny.edu/Public-Programming/Calendar/Detail?id=29470)
Meets 4:15PM - 5:30PM, Rm. 9204/05
Speaker: Matthias Baaz
Title: Towards a proof theory of analogical reasoning - See more
New York Joint Columbia-CUNY-NYU Number Theory Seminar
website: http://wfs.gc.cuny.edu/liszpiro/www/#jointsem
Meets: 5:30PM - 7:00PM at Columbia Univ. today, Rm. 417
Speaker: Kartik Prasanna (Univ. of Michigan and IAS)
Title: "Extensions of the Gross-Zagier Formula"
Tea: 5:00PM - 5:30PM, Rm. Math Lounge 5th floor

FRIDAY, FEB. 27TH

Set Theory Seminar
website: http://nylogic.org/set-theory
Meets: 10:00AM - 12:00PM, Rm. 6417
Speaker: Victoria Gitman (CUNY Graduate Center)
Time: "Remarkable Laver Functions"

Kolchin Afternoon Seminar in Differential Algebra
website: http://www.sci.ccny.cuny.edu/~ksda/gradcenter.html
Meets 10:15AM - 11:45AM, Rm. 5382
Speaker: Annette Maier (Technische Universität, Dortmund, Germany)
Title: “Computing Difference Galois Groups over $\mathbb{F}_{q(s,t)}$

New York Applied Algebra Colloquium
website: https://sites.google.com/site/nyalg2/
Meets: 11:00AM - 12:00PM, Rm. 3209
Speaker: Jean-Francois Biasse (Univ. of Waterloo, Canada)
Title: "On Quantum-Safe Cryptosystems Based on Isogenies"

New York Combinatorics Seminar
website: http://userhome.brooklyn.cuny.edu/skingan/CombinatoricsSeminar/index.html
Meets: 11:00AM - 12:00PM, Rm. 4419
Speaker: Kerry Ojakian (Bronx Community College)
Title: "An Exposition of the Graph Minor Theorem"

Complex Analysis and Dynamics Seminar
website: http://qcpages.qc.cuny.edu/~zakeri/seminar.html
Meets 2:00PM - 3:30PM, Rm. 5417
Two talks today:
Talk I: 1:50PM - 2:50PM:
Speaker: John Loftin (Rutgers Univ., Newark)
Title: “Cubic Differentials and Limits of Convex RP2 Structures under Neck Pinches”
Talk II: 2:55PM - 3:55PM
Speaker: Barak Weiss (Tel Aviv Univ.)
Title: “Everything is Illuminated (Except at Most Finitely Many Points)”

CUNY Logic Workshop
website: http://nylogic.org/workshop
Meets: 2:00PM - 3:45PM, Rm. 6417
Speaker: Petr Glivický (Charles Univ.)
Title: "Definability in Linear Fragments of Peano Arithmetic"
CUNY Representation Theory Seminar
website: https://sites.google.com/site/cunyrt/
Meets: 2:00PM - 3:30PM, Rm. 3209
Speaker: Bud Coulson (Rutgers)
Title: "A Motivated proof of the Goellnitz-Gordon-Andrews Partition Identities"

Impromptu Seminar in Arithmetic Geometry
Meets: 2:00PM - 4:00PM, Rm. 4214-03
Speaker: Mr. Joseph Gunther (CUNY Graduate Center)
Title: “Perfectoid Spaces”

Algebra & Cryptography Seminar
website: http://www.sci.ccny.cuny.edu/~shpil/algcryp.html
Meets 2:30PM - 3:30PM, Rm. 3305
Speaker: Jean-Francois Biasse (Univ. of Waterloo)
Title: "On Quantum-Safe Cryptosystems Based on Isogenies"

Commutative Algebra & Algebraic Geometry [CAAG] Seminar
website: http://websupport1.citytech.cuny.edu/faculty/Selhitti/index_files/Page350.htm
Meets: 4:00PM - 5:00PM, Rm. 6417
Speaker: Rad Dimitric (College of Staten Island)
Title: "The theory of Slenderness"

New York Group Theory Seminar
website: https://sites.google.com/site/nygrouptheory/spring-2015
Meets: 4:00PM - 5:15PM, Rm. 5417
Speaker: Daniel Studenmund (Univ. of Utah)
Title: "Abstract Commensurators of Lattices in Lie groups"
Tea from 3:30PM - 4:00PM in the Math Lounge (Rm. 4214)

Mathematical Physics, Fourier analysis, and Applications Seminar
website: https://wfs.gc.cuny.edu/myarmolinksy/friday_seminar.html
Meets: 4:00PM - 5:30PM, Rm. 4422
Speaker: Dan Pirjol (JP Morgan Chase)
Title: "Phase Transition in a Stochastic Growth Process with Multiplicative Noise"

Student Seminar in Algebraic Geom. & Applications
Meets 4:30PM - 6:30PM, Rm. 4214.03
Speaker: Mr. Eli Amzallag (CUNY Graduate Center)
Title: “Liouvillian Extensions”

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TUESDAY, MARCH 3RD

Geometry and Topology Student Seminar
website: http://www.math.csi.cuny.edu/abhijit/studentseminar/
Meets: 12:00PM - 1:30PM, Rm, 4214.03
Speaker: Mr. Zach McGuirk (CUNY Graduate center)
Title: "Expansion in graphs and Expansion Phenomena"

**Differential Geometry Seminar**
website: [http://gcpages.qc.cuny.edu/~dlee2/seminar.html](http://gcpages.qc.cuny.edu/~dlee2/seminar.html)
Meets: 2:45PM - 4:00PM, Rm. 3207
Speaker: Anne Franzen (Univ. of Utrecht & Princeton Univ.)
Title: TBA

**CUNY Geometry and Topology Seminar**
website: [http://comet.lehman.cuny.edu/behrstock/seminar/](http://comet.lehman.cuny.edu/behrstock/seminar/)
Meets 4:15PM - 6:15PM, Rm. 3212
Speaker: Hugo Parlier (Univ. of Fribourg)
Title: "Flipping triangles on surfaces"

**CUNY Probability Seminar**
website: [http://www.math.csi.cuny.edu/probability/](http://www.math.csi.cuny.edu/probability/)
Meets: 4:15PM - 5:30PM, Rm.5417
Speaker: Subhro Ghosh (Princeton Univ.)
Title: "Rigidity Phenomena in Random Point sets and Applications"

**Study Group in Number Theory**
Meets: 5:00PM - 6:30PM, Rm. 4214-03
No meeting today

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**WEDNESDAY, MARCH 4TH**

**Dynamics and Analysis Student Seminar**
website: [http://gcpages.qc.cuny.edu/~yjiang/HomePageYJ/LinkPages/StudentSeminars.htm](http://gcpages.qc.cuny.edu/~yjiang/HomePageYJ/LinkPages/StudentSeminars.htm)
Meets: 10:30AM - 12:00PM, Rm. 4214.03
Speaker: Nishan Chaterjee (CUNY Graduate Center)
Topic: Sections 3.1 - 3.3 of book "Quadratic Differentials" by Strebel

**Dynamics and Complex Analysis Research Seminar**
website: [http://gcpages.qc.cuny.edu/~yjiang/HomePageYJ/LinkPages/ResearchSeminars.htm](http://gcpages.qc.cuny.edu/~yjiang/HomePageYJ/LinkPages/ResearchSeminars.htm)
Meets: 1:30PM - 3:00PM, Rm. 4214-03
Speaker: Sudeb Mitra (Queens College & The CUNY Graduate Center)
Title: "Schwarz's lemma for Teichmueller space of a closed set in the sphere"

**Extremal Length Geometry Seminar**
website: [http://gcpages.qc.cuny.edu/~yjiang/HomePageYJ/LinkPages/ExtLengthSeminar.htm](http://gcpages.qc.cuny.edu/~yjiang/HomePageYJ/LinkPages/ExtLengthSeminar.htm)
Meets: 3:30PM - 4:55PM, Rm. 4214.03
Speaker: Jeremy Kahn (CUNY Graduate Center)
Title: "On a Compactification of Teichmuller Space, I"

**Models of Peano Arithmetic Seminar [MOPA Seminar]**
website: [http://nylogic.org/MOPA](http://nylogic.org/MOPA)
Meets: 4:50PM - 5:50PM, Rm. 6300
Speaker: Petr Glivický (Charles Univ.)
Title: "Definability in linear fragments of Peano Arithmetic, III"

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THURSDAY, MARCH 5TH

RTG New York Joint Columbia-CUNY-NYU Number Theory Seminar
website: http://wfs.gc.cuny.edu/lszpiro/www/#jointsem
Meets: 4:00PM - 4:45PM at NYU Courant Institute Today, Rm. 805
Speaker: TBA
Title: TBA
Tea: 5:00PM - 5:30PM, Rm. 317
Note: The RTG talk is aimed at graduate students and post-docs; regular faculty are requested not to attend

New York Joint Columbia-CUNY-NYU Number Theory Seminar
website: http://wfs.gc.cuny.edu/lszpiro/www/#jointsem
Meets: 5:30PM - 7:00PM at Columbia Univ. Today, Rm. 317
Speaker: TBA
Title: TBA
Tea: 5:00PM - 5:30PM, Rm. 317

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FRIDAY, MARCH 6TH

Set Theory Seminar
website: http://nylogic.org/set-theory
Meets: 10:00AM - 12:00PM, Rm. 6417
Speaker: Ms. Erin Carmody (CUNY Graduate Center)
Time: "Force to Change Large Cardinal Strength"

Kolchin Afternoon Seminar in Differential Algebra
website: http://www.sci.ccny.cuny.edu/~ksda/gradcenter.html
Meets 10:15AM - 11:45AM, Rm. 5382
Speaker: Michael Wibmer (RWTH Aachen Univ. Germany)
Title: "Difference Algebraic Groups"

New York Applied Algebra Colloquium
website: https://sites.google.com/site/nyalg2/
Meets: 11:00AM - 12:00PM, Rm. 3209
Speaker: Christophe Hohlweg (Univ. du Quebec a Montreal, Canada)
Title: "Artin-Tits Braid Groups, low Elements and Weak order in Coxeter Groups"

Complex Analysis and Dynamics Seminar
website: http://qcpages.qc.cuny.edu/~zakeri/seminar.html
Meets: 2:00PM - 3:30PM, Rm. 5417
Speaker: Hugo Parlier (Univ. of Fribourg & Hunter College of CUNY)
Title: TBA

CUNY Logic Workshop
website: http://nylogic.org/workshop
Meets: 2:00PM - 3:45PM, Rm. 6417
Speaker: Karen Lange (Wellesley College)
Title: "Lengths of roots of polynomials over k((G))"

**Impromptu Seminar in Arithmetic Geometry**
Meets: 2:00PM - 4:00PM, Rm. 4214-03
Speaker and topics varies every week

**New York Group Theory Seminar**
website: [https://sites.google.com/site/nygroupttheory/spring-2015](https://sites.google.com/site/nygroupttheory/spring-2015)
Meets: 4:00PM - 5:15PM, Rm. 5417
Speaker: Sasha Ushakov (Stevens Institute)
Title: TBA
Tea: 3:30PM - 4:00PM in the Math Lounge (Rm. 4214)

**Extremal Length Geometry Seminar**
website: [http://qcpages.qc.cuny.edu/~yjiang/HomePageYJ/LinkPages/ExtLengthSeminar.html](http://qcpages.qc.cuny.edu/~yjiang/HomePageYJ/LinkPages/ExtLengthSeminar.html)
Meets: 3:30PM - 4:55PM, Rm. 4214.03
Speaker: Jeremy Khan (CUNY Graduate Center)
Title: "On a Compactification of Teichmuller Space, I"

**Mathematical Physics, Fourier analysis, and Applications Seminar**
website: [https://wfs.gc.cuny.edu/myarmolinksy/friday_seminar.html](https://wfs.gc.cuny.edu/myarmolinksy/friday_seminar.html)
Meets: 4:00PM - 5:30PM, Rm. 4422
Speaker: TBA
Title: TBA

**Student Seminar in Algebraic Geom. & Applications**
Meets 4:30PM - 6:30PM, Rm. 4214.03
Speaker: Mr. Richard Gustavson (CUNY Graduate Center)
Title: "The Problem with Projective Varieties and the Need for Sheaves"

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**TUESDAY, MARCH 10TH**

**Geometry and Topology Student Seminar**
website: [http://www.math.csi.cuny.edu/abhijit/studentseminar/](http://www.math.csi.cuny.edu/abhijit/studentseminar/)
Meets: 12:00PM - 1:30PM, Rm, 4214.03
Speaker: TBA
Title: TBA

**Non-Linear Analysis Seminar & Study Group**
website: [http://www.math.csi.cuny.edu/~mlucia/GCactivities.html](http://www.math.csi.cuny.edu/~mlucia/GCactivities.html)
Meets: 1:00PM - 3:00PM, Rm. 5417
Speaker: Chuan Xue (Ohio State Univ.)
Title: "Chemotaxis, velocity jump process and the Keller-Segel Equations"

**Cryptography Student Seminar**
Differential Geometry Seminar
website: http://qcpages.qc.cuny.edu/~dlee2/seminar.html
Meets: 2:45PM - 4:00PM, Rm. 3207
Speaker: TBA
Title: TBA

WEDNESDAY, MARCH 11TH

Dynamics and Analysis Student Seminar
website:
http://qcpages.qc.cuny.edu/~yjiang/ HomePageYJ/LinkPages/StudentSeminars.htm
Meets: 10:30AM - 12:00PM, Rm. 4214.03
Speaker: Ms. Alice Kwon (CUNY Graduate Center)
Topic: Sections 3.4 - 3.6 of book "Quadratic Differentials" by Strebel

Dynamics and Complex Analysis Research Seminar
website:
http://qcpages.qc.cuny.edu/~yjiang/ HomePageYJ/LinkPages/ResearchSeminars.htm
Meets: 1:30PM - 3:00PM, Rm. 4214-03
Speaker: Linda Keen (College of Staten Island & The CUNY Graduate Center)
Title: "Dynamics on Tangent Family"

Extremal Length Geometry Seminar
website:
http://qcpages.qc.cuny.edu/~yjiang/ HomePageYJ/LinkPages/ExtLengthSeminar.htm
Meets: 3:30PM - 4:55PM, Rm. 4214.03
Speaker: Jeremy Kahn (CUNY Graduate Center)
Title: "On a Compactification of Teichmuller Space, II"

THURSDAY, MARCH 12TH

New York Joint Columbia-CUNY-NYU Number Theory Seminar
website: http://wfs.qc.cuny.edu/lszpiro/WWW/#jointsem
Meets: 4:00PM - 7:00PM at the Graduate Center Today, Rm. 4102
Double Header today
Speaker: Melanie Wood (Univ. of Wisconsin)
Title: TBA
Speaker II: David Roberts (Univ. of Minnesota)
Tea: 5:00PM - 5:30PM, Rm.4102

FRIDAY, MARCH 13TH
Kolchin Afternoon Seminar in Differential Algebra
website: http://www.sci.ccny.cuny.edu/~ksda/gradcenter.html
Meets 10:15AM - 11:45AM, Rm. 5382
Speaker: Gal Binyamini (Univ. of Toronto)
Title: "Bezout-type Theorems for Differential Fields"

New York Applied Algebra Colloquium
website: https://sites.google.com/site/nyalg2/
Meets: 11:00AM - 12:00PM, Rm. 3209
Speaker: Jeremy Kahn (CUNY Graduate Center)
Title: "Surface Groups in PSL_2 (R)"

New York Combinatorics Seminar
Meets: 11:00AM - 12:00PM, Rm. 4419
Speaker: Yared Nigussie (Columbia Univ.)
Title: TBA

CUNY Logic Workshop
website: http://nylogic.org/workshop
Meets: 12:30PM, 6417
Speaker: Andrey Morozov (Sobolev Institute of Mathematics, Novosibirsk State Univ.)
Title: TBA
Speaker II 2:00PM: Sergei Starchenko (Univ. of Notre Dame)
Title: TBA

Complex Analysis and Dynamics Seminar
website: http://qcpages.qc.cuny.edu/~zakeri/seminar.html
Meets: 2:00PM - 3:30PM, Rm. 5417
Speaker: Anita Rojas (Univ. of Chile)
Title: TBA

CUNY Representation Theory Seminar
website: https://sites.google.com/site/cunyrt/
Meets: 2:00PM - 3:30PM, Rm. 3209
Speaker: Zajj Daugherty (CUNY)
Title: TBA

Impromptu Seminar in Arithmetic Geometry
Meets: 2:00PM - 4:00PM, Rm. 4214-03
Speaker and topics varies every week

Mathematical Physics, Fourier analysis, and Applications Seminar
website: https://wfs.gc.cuny.edu/myarmolinksy/friday_seminar.html
Meets: 4:00PM - 5:30PM, Rm. 4422
Speaker: TBA
Title: TBA

Student Seminar in Algebraic Geom. & Applications
Meets 4:30PM - 6:30PM, Rm. 4214.03
Speaker: Mr. Richard Gustavson (CUNY Graduate Center)
Title: "From Prevarieties to Varieties"

SPECIAL EVENTS

Wednesday, March 18TH - Saturday, March 21ST

“Geometry and Topology” Conference

A four-day conference in honor of Martin Bendersky's seventieth birthday and in commemoration of Sam Gitler At Princeton University. See: http://web.math.princeton.edu/conference/Bendersky-Gitler/.

SPECIAL EVENTS

MONDAY, JUNE 1ST - FRIDAY, JUNE 5TH:

International Conference on Harmonic Analysis and Applications

At the Graduate Center of the City University of New York, Rm. 4102

In recent years, harmonic analysis has spawned new and exciting developments in various areas of pure and applied mathematics. These developments have merged into wavelets and frames as a common language of physics, astrophysics, engineering, geology, statistics, and into new applications to geometry analysis of large digital data and signal and image processing, such as compress sensing and sparse sampling, and approximation theory. The methods of harmonic analysis and frame theory have also been employed to solve long-standing problems in operator theory and operator algebra, PDE, interpolation theory, boundary value problems, Lie theory, and the geometry of fractals. The PIs have a long story of applying harmonic analysis and frame methods for study of functions and interpolation spaces, sampling theory on symmetric spaces, Lie groups and tiling theory. For complete info, see: http://ichaa.ws.gc.cuny.edu.

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