CUNY Mathematics Seminars Bulletin - CUNY Ph.D. Program in Mathematics
----------- Spring 2014 | No. 10 | Tuesday, April 1, 2014 -----------

Unless 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.

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TUESDAY, APRIL 1ST

Differential Geometry Seminar
website: http://qcpages.qc.cuny.edu/~dlee2/seminar.html
Meets: 2:45PM - 4:00PM, Rm. 3207
Speaker: Jeff Case (Princeton Univ.)
Title: "On the Positivity of a Class of Fractional GJMS Operators"

Hyperbolic Geometry Seminar
website: http://wfs.gc.cuny.edu/CArettines/hypgeo/index.html
Meets: 3:00PM - 4:00PM, Rm. 4214-03
No meeting today

CUNY Geometry and Topology Seminar
website: http://comet.lehman.cuny.edu/behrstock/seminar/
Meets: 4:15PM - 6:15PM, Rm. 3212
Speaker: Jingyin Huang (NYU)
Title: "Quasi-Isometry Classification of Right-Angled Artin Group with Finite outer Automorphism Group"

Study Group in Number Theory
Meets: 5:00PM - 6:30PM, Rm. 4214-03
Speaker: Carlos Moreno (Baruch College & The CUNY Graduate Center)
Title: "A Critical Reading of 1839 Dirichlet's Memoir 'Recherches sur diverses applications de l' Analyse infinitésimale à la théorie des Nombres, cont'd"

Algebraic & Numerical Computations Seminar
website: http://comet.lehman.cuny.edu/vpan/seminar.html
Meets: 6:30PM - 8:30PM, Rm. 3306
Speaker: Victor Pan (Lehman College & The CUNY Graduate Center)
Title: "Randomized Computations with General and Structured Matrices, II"

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WEDNESDAY, APRIL 2

Dynamics and Complex Analysis Student Seminar
website: http://qcpages.qc.cuny.edu/~yjiang/HomePageYJ/LinkPages/StudentSeminars.htm
Meets: 10:30AM - 12:00PM, Rm. 4214-03
Speaker: Mr. Shantanu Nandy (CUNY Graduate Center)
Title: "Barycentrical Extension"
**Study Group in Quaternion Arithmetic**  
Meets: 12:02PM - 1:28PM, Rm. 4214-03  
Speaker: Mr. Joe Quinn (CUNY Graduate Center)  
Title: "Two Proofs of The Wedderburn/Artin Theorem"

**Dynamics and Analysis Learning 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: Gangotryi Sorcar (Binghamton Univ.)  
Title: "Teichmuller Space of Negatively Curved Manifolds"

**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: Mr. Maxime Fortier Bourque (CUNY Graduate Center)  
Title: "A Generalization of Teichmuller's Theorem for Embeddings"

**Langlands Program Learning Seminar**  
Meets: 4:00PM - 5:00PM, Rm.8405  
Speaker: Mr. Tian An Wong (CUNY Graduate Center)  
Title: "The Local Langlands Correspondence"

**CUNY Topology Seminar**  
website: [http://math.hunter.cuny.edu/~mbenders/seminar.html](http://math.hunter.cuny.edu/~mbenders/seminar.html)  
Meets: 5:00PM - 6:00PM, Rm. 4214.03  
Speaker: Mohamed Abouzaid (Columbia Univ.)  
Title: "Lagrangian Immersions and the Floer Homotopy Type"

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**THURSDAY, APRIL 3RD**

**Impromptu Seminar in Arithmetic Geometry**  
Meets: 11:00AM - 1:00PM, Rm. 4214-03  
Speakers and topics will vary each week

**RTG New York Joint Columbia-CUNY-NYU Number Theory Seminar**  
Meets: 4:00PM - 4:45PM, Rm. 805 NYU Courant Institute Warren Weaver Hall  
Speaker: Angelo Vistoli (Scuola Normale Superiore, Pisa)  
Title: "Fundamental Gerbes"  
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

**Computer Science Colloquium**  
website: [http://cslogic.info/colloquium/](http://cslogic.info/colloquium/)  
Meets 4:15PM - 5:30PM, Rm. 9204  
Speaker: Annie Liu (Stoney Brook)
Title: "Incrementalization: From Clarity to Efficiency"
Followed by a wine and cheese reception in Rm. 4102 (Science Center), or Rm .4214 (Math Lounge)

**New York Joint Columbia-CUNY-NYU Number Theory Seminar**  
Meets: 5:30PM - 7:00PM, Rm. 317 NYU Courant Institute Warren Weaver Hall  
Speaker: Angelo Vistoli (Scuola Normale Superiore, Pisa)  
Title: "Fundamental Gerbes"  
Tea: 5:00PM - 5:30PM, Rm. 317

**NYC Category Theory Seminar**  
website: [http://www.sci.brooklyn.cuny.edu/~noson/CTseminar.html](http://www.sci.brooklyn.cuny.edu/~noson/CTseminar.html)  
Meets: 7:00PM - 8:30PM, Rm. 8405  
Speaker: Jean-Pierre Marquis (Univ.de Montréal)  
Title: "Homotopy Type Theory as a Foundational Framework: Some Philosophical Remarks"

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**FRIDAY, APRIL 4TH**

**Set Theory Seminar**  
Meets: 10:00AM - 11:45AM, Rm. 6417  
Speaker: Mr. Kameryn Williams (The CUNY Graduate Center)  
Title: "On the independence of Borel’s Conjecture"

**Kolchin Seminar in Differential Algebra**  
website: [http://www.sci.ccny.cuny.edu/~ksda/gradcenter.html](http://www.sci.ccny.cuny.edu/~ksda/gradcenter.html)  
Meets: 10:15AM - 11:45AM, Rm. 5382  
Please note there will be no scheduled meeting. Those interested in an informal discussion on Grothendieck Topology are welcome to meet at 10:15AM in Rm. 5382.

**New York Applied Algebra Colloquium**  
website: [https://sites.google.com/site/nyalg2/](https://sites.google.com/site/nyalg2/)  
Meets: 10:30AM - 11:30AM, Rm. 3209  
Speaker: John Rhodes (Berkeley)  
Title: "A New Class of Simplicial Complexes of Interest to Combinatorialists and Topologists"

**New York Combinatorics Seminar**  
Meets: 11:30AM - 12:30PM, Rm. 4419  
Speaker: Nikos Apostolakis (Bronx Comm. College)  
Title: "Proper Graph Embeddings, Duality, and Structural Bijections"

**Model Theory Seminar**  
website: [http://nylogic.org/model-theory](http://nylogic.org/model-theory)  
Meets: 12:30PM - 1:45PM, Rm. 6417  
Speaker: Cameron Freer (M.I.T.)  
Title: "Symmetric Random Constructions in Model Theory"

**Mathematical Aspects of Cryptography Student Seminar**
Complex Analysis and Dynamics Seminar
website:  
Meetings: 1:00PM - 2:15PM, Rm. 8405
No meeting today

Speaker: Patrick Hooper (City College & The Graduate Center)
Title: "Topologizing the Space of all Translation Surfaces"

CUNY Logic Workshop
website:  
Meetings: 2:00PM - 3:30PM, Rm. 6417
Speaker: Roman Kossak (Bronx Community College & The CUNY Graduate Center)
Title: "The Lattice Problem"

Mathematical Physics and Harmonic Analysis Seminar
website:  
Meetings: 2:00PM - 3:30PM, Rm. 4422
Speaker: Mr. Nick Spizzirri (CUNY Graduate Center)
Title: TBA

Collaborative Number Theory Seminar
website:  
Meetings: 2:00PM - 3:00PM, Rm. 3209
Speaker: Ian Whitehead (Columbia Univ.)
Title: "Axiomatic Multiple Dirichlet Series"

Applied Mathematics Seminar
website:  
Meetings: 4:00PM - 5:00PM, Rm. 3209
Speaker: Jesenko Vukadinovic (College of Staten Island & The CUNY Graduate Center)
Title: "Averaging and Spectral Properties of the 2D Advection-Diffusion Equation in the Semi-Classical Limit for Vanishing Diffusivity"

Commutative Algebra & Algebraic Geometry Seminar  
This seminar is a cross-listing with Kolchin Seminar in Differential Algebra
website:  
Meetings: 4:00PM - 5:00PM, Rm. 6417
Speaker: Andrew Parker (NY City Tech. CUNY)
Title: "A^1-Homotopy Theory"

TUESDAY, APRIL 8TH

Hyperbolic 3-Manifolds Reading Seminar
website:  
Meetings: 12:00PM - 1:30PM, Rm. 3209
Speaker: Mr. Joe Quinn (CUNY Graduate Center)
Title: "Quaternion Algebras and Hyperbolic 3-Manifolds"

Differential Geometry Seminar
Hyperbolic Geometry Seminar
website: http://wfs.gc.qc.cuny.edu/CArettines/hypgeo/index.html
Meets: 3:00PM - 4:00PM, Rm. 4214-03
Speaker: Jenya Sapir (Stanford Univ.)
Title: "Counting Non-simple Closed Curves on Surfaces"

CUNY Geometry and Topology Seminar
website: http://comet.lehman.cuny.edu/behrstock/seminar/
Meets: 4:15PM - 6:15PM, Rm. 3212
Speaker: Bogwang Jeon (Columbia Univ.)
Title: TBA

CUNY Probability Seminar
website: http://www.math.csi.cuny.edu/probability/
Meets: 4:15PM - 5:30PM, Rm. 5417
Speaker: David Belius (Univ. De Montreal)
Title: "Finer Properties of Torus Cover Times"

Study Group in Number Theory
Meets: 5:00PM - 6:30PM, Rm. 4214-03
Speaker: Carlos Moreno (Baruch College & The CUNY Graduate Center)
Title: "A Critical Reading of 1839 Dirichlet's Memoir 'Recherches sur diverses applications de l' Analyse infinitesimale à la théorie des Nombres, cont'd"

Algebraic & Numerical Computations Seminar
website: http://comet.lehman.cuny.edu/vpan/seminar.html
Meets: 6:30PM - 8:30PM, Rm. 3306
Speaker: Victor Pan (Lehman College & The CUNY Graduate Center)
Title: "Randomized Computations with General and Structured Matrices, III"

WEDNESDAY, APRIL 9TH

Dynamics and Complex Analysis Student Seminar
website: http://qcpages.qc.cuny.edu/~yjiang/HomePageYJ/LinkPages/StudentSeminars.htm
Meets: 10:30AM - 12:00PM, Rm. 4214-03
Speaker: Mr. John Adamski (CUNY Graduate Center)
Title: "Non-Ergodicity of Invariant Measures for Only $C^1$ Expanding Circle Maps"

Study Group in Quaternion Arithmetic
website: http://quaternion.ws.gc.cuny.edu/
Meets: 12:02PM - 1:28PM, Rm. 4214-03
Speaker: Mr. Joe Quinn (CUNY Graduate Center)
Title: "Tensors of Central and/or Simple Algebras; the Skolem/Noether Theorem"

Dynamics and Analysis Learning Seminar
website: http://qcpages.qc.cuny.edu/~yjiang/HomePageYJ/LinkPages/ResearchSeminars.htm
Meets: 1:30PM - 3:00PM, Rm. 4214-03
Speaker: QuanLie Fan
Title: "On Some Problems in Multivariable Operator Theory"

**Extremal Length Geometry Seminar**
website: http://qcpages.qc.cuny.edu/~yjiang/HomePageYJ/LinkPages/ExtLengthSeminar.htm
Meets: 3:30PM - 4:55PM, Rm. 4214-03
Speaker: Mr. Maxime Fortier Bourque (CUNY Graduate Center)
Title: "Moving one Riemann Surface Inside Another"

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**THURSDAY, APRIL 10TH**

**Impromptu Seminar in Arithmetic Geometry**
Meets: 11:00AM - 1:00PM, Rm. 4214-03
Speakers and topics will vary each week

**Non-Linear Analysis Seminar & Study Group**
website: http://www.math.csi.cuny.edu/~mlucia/GCactivities.html
Meets: 2:00PM - 4:00PM, Rm. 5417
Speaker: TBA
Title: TBA

**RTG New York Joint Columbia-CUNY-NYU Number Theory Seminar**
website: http://wfs.gc.cuny.edu/lszpiro/www/index.html#jointsem
Meets: 4:00PM - 4:45PM, Rm. 4102 CUNY Graduate Center
Speaker: Winnie Li (Penn State Univ.)
Title: TBA
Tea: 5:00PM - 5:30PM, Rm.4102
Note: The RTG talk is aimed at graduate students and post-docs; regular faculty are requested not to attend

**Computer Science Colloquium**
website: http://cslogic.info/colloquium/
Meets 4:15PM - 5:30PM, Rm. 9204
Speaker: Vladimir Shpilrain (CCNY)
Title: "Information Security without Computational Assumptions"
Followed by a wine and cheese reception in Rm. 4102 (Science Center), or the Math Lounge (Rm. 4214).

**New York Joint Columbia-CUNY-NYU Number Theory Seminar**
website: http://wfs.gc.cuny.edu/lszpiro/www/index.html#jointsem
Meets: 5:30PM - 7:00PM, Rm.4102 CUNY Graduate Center
Speaker: Winnie Li (Penn State Univ.)
Title: TBA
Tea: 5:00PM - 5:30PM, Rm. 4102

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FRIDAY, APRIL 11TH

Kolchin Seminar in Differential Algebra
website: http://www.sci.ccny.cuny.edu/~ksda/gradcenter.html
Meets: 10:15AM - 11:45AM, Rm. 5382
Speaker: Omar Sanchez (McMaster Univ.)
Title: "On Differential Algebraic, But Not Constrained, Families"

New York Applied Algebra Colloquium
website: https://sites.google.com/site/nyalg2/
Meets: 10:30AM - 11:30AM, Rm. 3209
Speaker: Andrey Minchenko (Weizmann Institute)
Title: TBA

Kolchin Seminar in Differential Algebra
website: http://www.sci.ccny.cuny.edu/~ksda/gradcenter.html
Meets: 12:30AM - 2:00AM, Rm. 5382 (please note special time)
Speaker: Andrey Minchenko (Weizmann Institute of Science)
Title TBA

Model Theory Seminar
website: http://nylogic.org/model-theory
Meets: 12:30PM - 1:45PM, Rm. 6417
Speaker: Andres Villaveces (Univ. Nacional de Colombia)
Title: TBA

Mathematical Aspects of Cryptography Student Seminar
website: https://sites.google.com/site/gccryptostudents/
Meets: 1:00PM - 2:15PM, Rm. 8405
Speaker: Hossein Siadati (NYU Poly)
Title: TBA

Complex Analysis and Dynamics Seminar
website: http://qcpages.qc.cuny.edu/~zakeri/seminar.html
Meets: 2:00PM - 3:30PM, Rm. 5417
Speaker: Giulio Tiozzo (ICERM & Yale Univ.)
Title: TBA

Complex Analysis and Dynamics Seminar
website: http://qcpages.qc.cuny.edu/~zakeri/seminar.html
Meets: 2:00PM - 3:30PM, Rm. 5417
Speaker: Giulio Tiozzo (ICERM & Yale Univ.)
Title: TBA

Mathematical Physics and Harmonic Analysis Seminar
website: https://wfs.gc.cuny.edu/AParzygnat/mathphysharmanal.html
Meets: 2:00PM - 3:30PM, Rm. 4422
Speaker: Mr. Arthur Parzygnat (CUNY Graduate Center)
Title: "Quantum Mechanics for Mathematicians, II"

Applied Mathematics Seminar
website: http://www.math.csi.cuny.edu/~tobias/amseminar.html
Meets: 4:00PM - 5:00PM, Rm. 3209
Speaker: Jan Vecer (Frankfurt School of Finance and Management)
Title: "Reference Asset Invariant Price Processes"

New York Group Theory Seminar
Meets: 4:00PM - 5:15PM, Rm. 5417
Speaker: Mr. Tim Susse (CUNY Graduate Center Univ.)
Title: TBA
Tea: 3:30PM - 4:15PM, Rm. 4214 (Math Lounge)

TUESDAY, APRIL 15TH
No meeting today – Spring Recess at CUNY

WEDNESDAY, APRIL 16TH
No meeting today – Spring Recess at CUNY

THURSDAY, APRIL 17TH
No meeting today – Spring Recess at CUNY

FRIDAY, APRIL 18TH
No meeting today – Spring Recess at CUNY, except:

Differential Geometry Seminar
website: [http://qcpages.qc.cuny.edu/~dle/2/seminar.html](http://qcpages.qc.cuny.edu/~dle/2/seminar.html)
Meets: 2:45PM - 4:00PM, Rm. 3207 (please note special date)
Speaker: Iosif Polterovich (Univ. of Montreal)
Title: "Spectral Geometry of the Steklov Problem"

SPECIAL EVENTS:

MONDAY, MAY 19TH
BERS 100TH BIRTHDAY
Will be held at the CUNY Graduate Center 2:00PM - 6:30PM; a banquet will follow; Speakers: Yair Minsky (Yale University) and Dennis Sullivan (CUNY Graduate Center and Stony Brook University) Organizers: Ara Basmajian (ABasmajian@gc.cuny.edu), Linda Keen (LKeen@gc.cuny.edu), and Jozef Dodziuk (JDodziuk@gc.cuny.edu) For more info, see: http://bers100.wordpress.com/

THURSDAY MAY 20TH – SATURDAY 22ND

SIXTH IBEROAMERICAN CONGRESS ON GEOMETRY

At the CUNY Graduate Center 9:00AM – 4:30PM. Plenary Speakers: Moira Chas (Stony Brook University) Nuria Fagella (University of Barcelona) Jeremy Kahn (City University of New York, Graduate Center) Sarah Koch (University of Michigan) Maryam Mirzakhani (Stanford University) Christian Schnell (Stony Brook University) Martin Bridgeman (Boston College) Juan Souto (Centre national de la recherche scientifique). Organizing Committee: Ara Basmajian (ABasmajian@gc.cuny.edu) Reza Chamanara (rchamanara@brooklyn.cuny.edu), Linda Keen (LKeen@gc.cuny.edu), and Zhe Wang (zhe.wang@bcc.cuny.edu) For more info, see: http://iberoamericancongress.wordpress.com/

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