

## School of Mathematics

### [Mathematical Conversations](#)

Submitted by admin on Mon, 03/11/2013 - 15:01  
To Be Announced

**Date & Time:** Wed, 10/23/2013 - 18:00 - 19:30

**Location:** Dilworth Room

**Rooms:** Dilworth Room

**Rooms:** Dilworth Room - Rear

terms:

- [School of Mathematics](#)

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### [Members Seminar](#)

Submitted by admin on Mon, 03/11/2013 - 14:01  
Five Stages of Accepting Constructive Mathematics

**Series:** Members Seminar

Andrej Bauer

University of Ljubljana, Slovenia; Member, School of Mathematics

**Date & Time:** Mon, 03/18/2013 - 14:00 - 15:00

**Location:** S-101

**Video Link:**

<http://video.ias.edu/members/1213/0318-AndrejBauer>

Discussions about constructive mathematics are usually derailed by philosophical opinions and meta-mathematics. But how does it actually feel to do constructive mathematics? A famous mathematician wrote that "taking the principle of excluded middle from the mathematician would be the same, say, as proscribing the telescope to the astronomer or to the boxer the use of his fists." Was he right? In this talk we shall visit the astounding worlds of constructive mathematics.

terms:

- [School of Mathematics](#)

### [Special Lectures in Analysis/Number Theory](#)

Submitted by admin on Mon, 03/11/2013 - 14:01

Norm Convergence of Nonconventional Ergodic Averages

Miguel Walsh

Buenos Aires

**Date & Time:** Wed, 03/27/2013 - 13:30 - 14:30

**Location:** West Bldg. Lecture Hall

terms:

- [School of Mathematics](#)
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### [Members Seminar](#)

Submitted by admin on Fri, 03/08/2013 - 12:01

Random Matrices, Dimensionality Reduction, and Faster Numerical Linear Algebra Algorithms

**Series:** Members Seminar

Jelani Nelson

Member, School of Mathematics

**Date & Time:** Mon, 03/11/2013 - 14:00 - 15:00

**Location:** S-101

**Video Link:**

<http://video.ias.edu/members/1213/0311-jelaniNelson>

A fundamental theorem in linear algebra is that any real  $n \times d$  matrix has a singular value decomposition (SVD). Several important numerical linear algebra problems can be solved efficiently once the SVD of an input matrix is computed: e.g. least squares regression, low rank approximation, and computing preconditioners, just to name a few. Unfortunately in many modern big data applications the input matrix is very large, so that computing the SVD is computationally expensive.

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### [Special Seminar Lectures](#)

Submitted by admin on Thu, 03/07/2013 - 14:01

**Date & Time:** Wed, 03/27/2013 - 14:00 - 17:00

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## School of Mathematics

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**Location:** West Bldg. Lecture Hall

**Rooms:** West Lecture Hall

terms:

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## [2013 Women and Mathematics](#)

Submitted by admin on Thu, 03/07/2013 - 10:01

**Date & Time:** Tue, 05/14/2013 - 19:00 - 21:00

**Location:** Wolfensohn Hall

**Rooms:** Wolfensohn Hall

terms:

- [Facilities Schedule](#),
  - [School of Mathematics](#)
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## [Univalent Foundations Seminar](#)

Submitted by admin on Wed, 03/06/2013 - 12:01

Homotopy Colimits and a Descent Theorem

Egbert Rijke

School of Mathematics, IAS

**Date & Time:** Thu, 03/14/2013 - 11:00 - 12:30

**Location:** S-101

**Video Link:**

<http://video.ias.edu/univalent-1213-0314-EgbertRijke>

terms:

- [School of Mathematics](#)
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## [Univalent Foundations Seminar](#)

Submitted by admin on Wed, 03/06/2013 - 12:01

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Eilenberg-Mac Lane Spaces in HoTT  
Daniel Licata  
Carnegie Mellon University; Member, School of Mathematics  
**Date & Time:** Wed, 03/13/2013 - 11:00 - 12:30  
**Location:** S-101  
**Video Link:**  
<http://video.ias.edu/univalent/1213/0313-DanielLicata>

terms:

- [School of Mathematics](#)

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## [Workshop on Topology: Identifying Order in Complex Systems](#)

Submitted by admin on Tue, 03/05/2013 - 13:01  
The Optimality of the Interleaving Distance on Multidimensional Persistence Modules  
Michael Lesnick  
Stanford University; Member, School of Mathematics, IAS  
**Date & Time:** Wed, 03/06/2013 - 17:00 - 18:00  
**Location:** S-101  
**Video Link:**  
<http://video.ias.edu/topology-workshop/2013/0306-MichaelLesnick>

Persistent homology is a central object of study in applied topology. It offers a flexible framework for defining invariants, called barcodes, of point cloud data and of real valued functions. Many of the key results of the last several years in the theory of persistent homology have been formulated in terms of a metric on barcodes called the bottleneck distance. There is a multi-parameter generalization of persistent homology, called multi-dimensional persistent homology, which is naturally suited to the study of noisy point cloud data.

terms:

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## [Working Group on Algebraic Number Theory](#)

Submitted by admin on Tue, 03/05/2013 - 13:01  
**Date & Time:** Thu, 03/14/2013 - 14:00 - 16:00  
**Location:** Fine Hall -- 801

terms:

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