

School of Mathematics

[Mathematical Conversations](#)

Submitted by admin on Thu, 02/21/2013 - 12:01

Local Codes and Symmetry

Klim Efremenko

Tel-Aviv University; Member, School of Mathematics

Date & Time: Wed, 02/27/2013 - 18:00 - 19:30

Location: Dilworth Room

Rooms: Dilworth Room - Rear

Rooms: Dilworth Room

terms:

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

[Univalent Foundations Seminar](#)

Submitted by admin on Wed, 02/20/2013 - 11:01

Semantics of Higher Inductive Types

Michael Shulman

University of California, San Diego; Member, School of Mathematics

Date & Time: Wed, 02/27/2013 - 11:00 - 12:30

Location: S-101

Video Link:

<http://video.ias.edu/univalent/1213/0227-MichaelShulman>

terms:

- [School of Mathematics](#)

[Univalent Foundations Event](#)

Submitted by admin on Wed, 02/20/2013 - 11:01

Speakers to be Announced

Date & Time: Mon, 02/25/2013 - 08:30 - 17:30

Location: West Bldg. Lecture Hall

Rooms: West Lecture Hall

terms:

- [School of Mathematics](#)
-

[Univalent Foundations Seminar](#)

Submitted by admin on Wed, 02/20/2013 - 11:01

Formal Abstract Homotopy Theory

Jeremy Avigad

Carnegie Mellon University

Date & Time: Thu, 02/28/2013 - 11:00 - 12:30

Location: S-101

Video Link:

<http://video.ias.edu/univalent/1213/0228-JeremyAvigad>

terms:

- [School of Mathematics](#)
-

[Joint IAS/PU Number Theory Seminar](#)

Submitted by admin on Tue, 02/19/2013 - 12:01

Standard and Nonstandard Comparisons of Relative Trace Formulas

Yiannis Sakellaridis

Rutgers, The State University of New Jersey

Date & Time: Thu, 02/28/2013 - 16:30 - 17:30

Location: S-101

Video Link:

<http://video.ias.edu/jointiaspu/1213/0228-YiannisSakellaridis>

The trace formula has been the most powerful and mainstream tool in automorphic forms for proving instances of Langlands functoriality, including character relations. Its generalization, the relative trace formula, has also been used to prove functoriality between "spaces" (more precisely: spherical homogeneous varieties), which is a generalization of functoriality for groups, including relations between periods of automorphic forms.

terms:

- [School of Mathematics](#)
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[Working Group on Algebraic Number Theory](#)

Submitted by admin on Tue, 02/19/2013 - 12:01

Date & Time: Thu, 02/28/2013 - 14:00 - 16:00

Location: S-101

terms:

- [School of Mathematics](#)
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[Joint IAS-PU Symplectic Geometry Seminar](#)

Submitted by admin on Tue, 02/19/2013 - 11:01

Intermediate Symplectic Capacities

Alvaro Pelayo

Washington University; Member, School of Mathematics

Date & Time: Fri, 03/01/2013 - 13:30 - 14:30

Location: S-101

Video Link:

<http://video.ias.edu/jointiaspu/1213/0301-AlvaroPelayo>

In 1985 Misha Gromov proved his Nonsqueezing Theorem, and hence constructed the first symplectic 1-capacity. In 1989 Helmut Hofer asked whether symplectic d -capacities exist if $1 < d < n$. I will discuss the answer to this question and its relevance in symplectic geometry. This is joint work with San Vu Ngoc.

terms:

- [School of Mathematics](#)
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[Marston Morse Lectures](#)

Submitted by admin on Tue, 02/19/2013 - 11:01

Unexpected Applications of Polynomials in Combinatorics

Larry Guth

Massachusetts Institute of Technology

Date & Time: Tue, 03/12/2013 - 14:00 - 15:00

Location: S-101

Video Link:

<http://video.ias.edu/marston-morse/1213/0312-LarryGuth>

In 2007, Zeev Dvir shocked experts by giving a one-page proof of the finite field Kakeya problem. The new idea in the proof was to introduce high degree polynomials into a problem about points and lines. This idea has led to progress on several problems of combinatorial geometry. The most famous of these is the distinct distance problem in the plane. In 1946, Erdos raised the problem how many distinct distances can be determined by n points in the plane, and he observed that a square grid gives roughly $n / (\log n)^{1/2}$ distances.

terms:

- [School of Mathematics](#)

[Marston Morse Lectures](#)

Submitted by admin on Tue, 02/19/2013 - 11:01

What is Special About Polynomials? (Perspectives from Coding theory and Differential Geometry)

Larry Guth

Massachusetts Institute of Technology

Date & Time: Wed, 03/13/2013 - 14:00 - 15:00

Location: S-101

terms:

- [School of Mathematics](#)

[Marston Morse Lectures](#)

Submitted by admin on Tue, 02/19/2013 - 11:01

The Codimension Barrier in Incidence Geometry

Larry Guth

Massachusetts Institute of Technology

Date & Time: Thu, 03/14/2013 - 14:00 - 15:00

Location: S-101

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