

School of Mathematics

[Mathematical Conversations](#)

Submitted by admin on Mon, 03/04/2013 - 15:01

In Computers We Trust?

Tom Hales

University of Pittsburgh

Date & Time: Fri, 03/15/2013 - 18:00 - 19:30

Location: Dilworth Room

Rooms: Dilworth Room - Rear

Rooms: Dilworth Room

terms:

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

[Analysis Seminar](#)

Submitted by admin on Fri, 03/01/2013 - 18:01

Conformal Invariants from Nodal Sets

Series: Analysis Seminar

Dmitry Jakobson

McGill University

Date & Time: Tue, 04/23/2013 - 15:15 - 16:15

Location: S-101

Video Link:

<http://video.ias.edu/analysis/1213/0423-DmitryJakobson>

We study conformal invariants that arise from nodal sets and negative eigenvalues of conformally covariant operators, which include the Yamabe and Paneitz operators. We give several applications to curvature prescription problems. We establish a version in conformal geometry of Courant's Nodal Domain Theorem. We also show that on any manifold of dimension $n \geq 3$, there exist many metrics for which our invariants are nontrivial. We prove that the Yamabe operator can have an arbitrarily large number of negative eigenvalues on any manifold of dimension $n \geq 3$.

terms:

- [School of Mathematics](#)

[Working Group on Univalent Foundations](#)

Submitted by admin on Thu, 02/28/2013 - 16:01

Date & Time: Wed, 03/06/2013 - 13:30 - 15:00

Location: West Bldg. Lecture Hall

Rooms: West Lecture Hall

terms:

- [School of Mathematics](#)
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[Workshop on Topology: Identifying Order in Complex Systems](#)

Submitted by admin on Thu, 02/28/2013 - 14:01

Locality and Unitarity from Positivity: Beyond the Positive Grassmannian

Nima Arkani-Hamed

School of Natural Sciences, IAS

Date & Time: Wed, 03/06/2013 - 15:30 - 16:30

Location: S-101

Video Link:

<http://video.ias.edu/topology-workshop/1213/0306-NimaArkani-Hamed>

terms:

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

Submitted by admin on Thu, 02/28/2013 - 13:01

Loops and Self Reference in Language and Life

Tsvi Tlusty

Weizmann Institute of Science; Member, Simons Center for Systems Biology, IAS

Date & Time: Wed, 03/06/2013 - 14:00 - 15:00

Location: S-101

Video Link:

<http://video.ias.edu/topology-workshop/1213/0306-TsviTlusty>

We will discuss the notion of loops in linguistic structures, mainly in dictionaries. In a simplified view, a dictionary is a graph that links every word (vertex) to a set of alternative words (the definition) which in turn point to further descendants. Iterating through definitions, one may loop back to the original word. We will examine possible links between such definitional loops and the emergence of new concepts during the evolution of languages. Potential relation to living systems will be briefly discussed.

terms:

- [School of Mathematics](#)
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[Joint IAS/PU Number Theory Seminar](#)

Submitted by admin on Wed, 02/27/2013 - 11:01

An Analogue of the Ichino-Ikeda Conjecture for Whittaker Coefficients of the Metaplectic Group

Erez Lapid

Hebrew University of Jerusalem and Weizmann Institute of Science

Date & Time: Thu, 03/14/2013 - 16:30 - 17:30

Location: S-101

Video Link:

<http://video.ias.edu/jointiaspu/1213/0314-ErezLapid>

A few years ago Ichino-Ikeda formulated a quantitative version of the Gross-Prasad conjecture, modeled after the classical work of Waldspurger. This is a powerful local-to-global principle which is very suitable for analytic and arithmetic applications. One can formulate a Whittaker analogue of the Ichino-Ikeda conjecture. We use the descent method of Ginzburg-Rallis-Soudry to reduce the Whittaker version to a purely local identity which we prove in the p -adic case under some mild hypotheses. Joint work with Zhengyu Mao

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[Univalent Foundations Seminar](#)

Submitted by admin on Wed, 02/27/2013 - 11:01

Setoids, e-Categories, and Exact Completions

Richard Garner

Queen Mary, University of London

Date & Time: Thu, 03/07/2013 - 11:00 - 12:30

Location: S-101

Video Link:

<http://video.ias.edu/univalent/1213/0307-RichardGarner>

terms:

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[Univalent Foundations Seminar](#)

Submitted by admin on Wed, 02/27/2013 - 11:01

Cohomology in Homotopy Type Theory

Eric Finster

Ecole Polytechnique Federal de Lausanne; Member, School of Mathematics

Date & Time: Wed, 03/06/2013 - 11:00 - 12:30

Location: S-101

Video Link:

<http://video.ias.edu/univalent/1213/0306-EricFinster>

Disclaimer: The audio in this video failed after 01:00:00. We apologize for the inconvenience.

terms:

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

Submitted by admin on Tue, 02/26/2013 - 15:01

Resonance for Loop Homology on Spheres

Nancy Hingston

The College of New Jersey; Member, School of Mathematics

Date & Time: Fri, 03/15/2013 - 13:30 - 14:30

Location: S-101

Video Link:

<http://video.ias.edu/jointiaspu/1213/0315-NancyHingston>

Fix a metric (Riemannian or Finsler) on a compact manifold M . The critical points of the length function on the free loop space LM of M are the closed geodesics on M . Filtration by the length

function gives a link between the geometry of closed geodesics, and the algebraic structure given by the Chas-Sullivan product on the homology of LM and the “dual” loop cohomology product. If X is a homology class on LM, the “minimax” critical level $Cr(X)$ is a critical value of the length function.

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[Mathematical Conversations](#)

Submitted by admin on Mon, 02/25/2013 - 18:01

Why Braids?

Mina Teicher

Bar-Ilan University; Member, School of Mathematics

Date & Time: Wed, 03/06/2013 - 18:00 - 19:30

Location: Dilworth Room

Rooms: Dilworth Room - Rear

Rooms: Dilworth Room

terms:

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 - [School of Mathematics](#)
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