

School of Mathematics

[Univalent Foundations Seminar](#)

Submitted by admin on Mon, 04/08/2013 - 14:01
To Be Announced

Date & Time: Wed, 04/17/2013 - 11:00 - 12:30

Location: S-101

terms:

- [School of Mathematics](#)
-

[Univalent Foundations Tutorial](#)

Submitted by admin on Mon, 04/08/2013 - 14:01

Date & Time: Mon, 04/15/2013 - 16:00 - 17:30

Location: S-101

terms:

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

Submitted by admin on Mon, 04/08/2013 - 14:01
To Be Announced

Date & Time: Thu, 04/18/2013 - 11:00 - 12:30

Location: S-101

terms:

- [School of Mathematics](#)
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[Working Group on Univalent Foundations](#)

Submitted by admin on Mon, 04/08/2013 - 14:01

Date & Time: Tue, 04/16/2013 - 13:30 - 15:00

Location: S-101

terms:

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[Special Lecture](#)

Submitted by admin on Fri, 04/05/2013 - 17:01

Integrable Stochastic Particle Systems and Macdonald Processes

Alexei Borodin

Massachusetts Institute of Technology

Date & Time: Thu, 04/25/2013 - 14:00 - 15:00

Location: S-101

Video Link:

<http://video.ias.edu/speciallecture/1213/0425-AlexeiBorodin>

A large class of one dimensional stochastic particle systems are predicted to share the same universal long-time/large-scale behavior. By studying certain integrable models within this (Kardar-Parisi-Zhang) universality class we access what should be universal statistics and phenomena. In this talk we focus on two different integrable exclusion processes: q-TASEP and ASEP.

terms:

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[Analysis Seminar](#)

Submitted by admin on Thu, 04/04/2013 - 17:01

Calibrations of Degree Two and Regularity Issues

Series: Analysis Seminar

Constante Bellettini

Princeton University; Member, School of Mathematics

Date & Time: Tue, 04/09/2013 - 15:15 - 16:15

Location: S-101

Video Link:

<http://video.ias.edu/analysis/1213/0409-ConstanteBellettini>

Calibrated currents naturally appear when dealing with several geometric questions, some aspects of which require a deep understanding of regularity properties of calibrated currents. We will review some of these issues, then focusing on the two-dimensional case where we will show a surprising connection with pseudo-holomorphic curves and an infinitesimal regularity result, namely the uniqueness of tangent cones

terms:

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

Submitted by admin on Thu, 04/04/2013 - 11:01

Hamiltonian Instability Driven by Recurrent Dynamics

Series: Analysis Seminar

Marian Gidea

Northeastern Illinois University; Member, School of Mathematics

Date & Time: Thu, 04/11/2013 - 15:15 - 16:15

Location: S-101

Video Link:

<http://video.ias.edu/analysis/1213/0411-MarianGidea>

We present some novel approaches to the instability problem of Hamiltonian systems (in particular, the Arnold Diffusion problem). We show that, under generic conditions, perturbations of geodesic flows by recurrent dynamics yield trajectories whose energy grows to infinity in time (at a linear rate, which is optimal). We also show that small, generic perturbations of integrable Hamiltonian systems yield trajectories that travel large distances in the phase space. The systems that we consider are very general.

terms:

- [School of Mathematics](#)
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[Working Group on Univalent Foundations](#)

Submitted by admin on Thu, 04/04/2013 - 10:01

Date & Time: Fri, 04/12/2013 - 11:00 - 12:30

Location: S-101

terms:

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[Mathematical Conversations](#)

Submitted by admin on Wed, 04/03/2013 - 11:01

Zeros of Zeta Functions and the Riemann Hypothesis

Anders Sodergren

Member, School of Mathematics

Date & Time: Fri, 04/12/2013 - 18:00 - 19:30

Location: Dilworth Room

Rooms: Dilworth Room - Rear

Rooms: Dilworth Room

terms:

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

[Special Number Theory Seminar](#)

Submitted by admin on Tue, 04/02/2013 - 14:01

Solvability in Polynomials of Pell Equations in a Pencil and a Conjecture of Pink

Umberto Zannier

Scuola Normale Superiore de Pisa, Italy

Date & Time: Wed, 04/10/2013 - 14:00 - 15:00

Location: S-101

Video Link:

<http://video.ias.edu/specialnumbertheory/1213/0410-UmbertoZannier>

The classical Pell equation $X^2 - DY^2 = 1$, to be solved in integers $X, Y \neq 0$, has a variant for function fields (studied already by Abel), where now $D = D(t)$ is a complex polynomial of even degree and we seek solutions in nonzero complex polynomials $X(t), Y(t)$. In this context solvability is no longer ensured by simple conditions on D and may be considered 'exceptional'. In the talk we shall mainly let $D(t) = D_\lambda(t)$ vary in a pencil. When $D_\lambda(t)$ has degree ≤ 4 , it may be seen that for infinitely many $\lambda \in \mathbb{C}$ there are nontrivial solutions.

terms:

- [School of Mathematics](#)

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