School of Mathematics

Analysis Seminar

Submitted by admin on Mon, 02/25/2013 - 12:01
Resonances for Normally Hyperbolic Trapped Sets
Series: Analysis Seminar
Semyon Dyatlov
University of California
Date & Time: Tue, 04/02/2013 - 15:15 - 16:15
Location: S-101
Video Link:
http://video.ias.edu/analysis/1213/0402-SemyonDyatlov

Resonances are complex analogs of eigenvalues for Laplacians on noncompact manifolds, arising in long time resonance expansions of linear waves. We prove a Weyl type asymptotic formula for the number of resonances in a strip, provided that the set of trapped geodesics is r-normally hyperbolic for large r and satisfies a pinching condition. Our dynamical assumptions are stable under small smooth perturbations and motivated by applications to black holes. We also establish a high frequency analog of resonance expansions.

terms:

- School of Mathematics

Members Seminar

Submitted by admin on Mon, 02/25/2013 - 12:01
Hodge and Chern Numbers of Algebraic Varieties 60 Years After Hirzebruch's Riemann-Roch Theorem
Series: Members Seminar
Dieter Kotschick
Universitat Munchen; Member, School of Mathematics
Date & Time: Mon, 03/04/2013 - 14:00 - 15:00
Location: S-101
Video Link:
http://video.ias.edu/members/1213/0304-DieterKotschick

In its simplest form, Hirzebruch's 1953 Riemann-Roch theorem is an identity between certain combinations of Hodge numbers on the one hand and certain combinations of Chern numbers

on the other. I will show that there are no other such identities, beyond HRR. I will also discuss the topological non-invariance of Hodge and Chern numbers, exhibiting systematic examples of diffeomorphic varieties with distinct Hodge and Chern numbers. This leads to the complete solution of a problem posed by Hirzebruch in connection with Riemann-Roch. (This talk is based in part on joint work with S.

terms:

- School of Mathematics

Joint IAS/PU Number Theory Seminar

Submitted by admin on Mon, 02/25/2013 - 12:01
Goren-Oort Stratification of Hilbert Modular Varieties mod p and Tate Conjecture
Liang Xiao
University of Chicago
Date & Time: Thu, 03/07/2013 - 16:30 - 17:30
Location: Fine Hall 214

terms:

- School of Mathematics

Working Group on Algebraic Number Theory

Submitted by admin on Mon, 02/25/2013 - 12:01
Date & Time: Thu, 03/07/2013 - 14:00 - 16:00
Location: Fine Hall -- 801

terms:

- School of Mathematics

Andre' Joyal's 70th Birthday

Submitted by admin on Mon, 02/25/2013 - 11:01
A Type System With Two Kinds of Identity Types
Vladimir Voevodsky

School of Mathematics, IAS
Date & Time: Mon, 02/25/2013 - 10:00 - 11:00
Location: West Bldg. Lecture Hall

terms:

- School of Mathematics

Andre' Joyal's 70th Birthday

Submitted by admin on Mon, 02/25/2013 - 11:01
Connectedness and the Freudenthal Suspension Theorem
Peter LeFanu Lumsdaine
Dalhousie University; Member, School of Mathematics
Date & Time: Mon, 02/25/2013 - 11:00 - 12:00
Location: West Bldg. Lecture Hall

terms:

- School of Mathematics

Andre' Joyal's 70th Birthday

Submitted by admin on Mon, 02/25/2013 - 11:01
Joyal Theorems for Homotopical Species
Joachim Kock
Universitat Autonoma de Barcelona
Date & Time: Mon, 02/25/2013 - 14:00 - 15:00
Location: West Bldg. Lecture Hall

terms:

- School of Mathematics

Andre' Joyal's 70th Birthday

Submitted by admin on Mon, 02/25/2013 - 11:01
Rings and Near Rings in 2-Monoidal Categories

Marcelo Aguiar
Texas A&M University
Date & Time: Mon, 02/25/2013 - 16:00 - 17:00
Location: West Bldg. Lecture Hall

terms:

- School of Mathematics

Andre' Joyal's 70th Birthday

Submitted by admin on Mon, 02/25/2013 - 11:01
Braid Extended Power Operations in Topology
Terry Bisson
Canisius College
Date & Time: Mon, 02/25/2013 - 17:00 - 18:00
Location: West Bldg. Lecture Hall

terms:

- School of Mathematics

Members Seminar

Submitted by admin on Thu, 02/21/2013 - 12:01
Collective Phenomena, Collective Motion, and Collective Action in Ecological Systems
Series: Members Seminar
Simon Levin
Princeton University
Date & Time: Mon, 02/25/2013 - 14:00 - 15:00
Location: S-101
Video Link:
http://video.ias.edu/members/1213/0225-SimonLevin

Fundamental questions in basic and applied ecology alike involve complex adaptive systems, in which localized interactions among individual agents give rise to emergent patterns that feed back to affect individual behavior. In such systems, a central challenge is to scale from the “microscopic” to the “macroscopic,” in order to understand the emergence of collective phenomena, the potential for critical transitions, and the ecological and evolutionary conflicts between levels of organization.

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terms:

- School of Mathematics

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