

# PURDUE

UNIVERSITY

## Department of Mathematics Seminars and Colloquia

November 9-13, 2009

### Geometric Analysis Seminar

Monday  
November 2      Professor László Lempert, Purdue University      MATH 215  
"An Introduction to Geometric Quantization. Part II: Connections, Curvature, Hermitian Metrics"  
3:30 P.M.

### Bridge to Research Seminar

Monday  
November 9      Professor Ralph Kaufmann, Purdue University      REC 225  
"Homotopy Structures, Loops and String Topology"  
4:30 P.M.

### Probability Seminar

Tuesday  
November 10      Professor Krzysztof Bogdan, visiting Purdue University, Wroclaw University, Poland      REC 307  
"Heat Kernel Estimates for the Fractional Laplacian"  
10:30 A.M.

### Automorphic Forms & Representation Theory Seminar

Tuesday  
November 10      Professor Solomon Friedberg, Boston College      BRNG B248  
"Metaplectic Whittaker Functions, Crystal Graphs, and Quantum Groups"  
1:30 P.M.  
NOTE: Special time and place

### Operator Algebras Seminar

Tuesday  
November 10      Professor Marius Dădărlat, Purdue University      MATH 731  
"Rank Functions for Simple  $C^*$ -algebras"  
2:30 P.M.

### Syzygies Reading Seminar

Tuesday  
November 10      Professor Manoj Kummini, Purdue University      BRNG 1206  
"Weyman's Theorem"  
3:30 P.M.

### Department of Mathematics Colloquium

Tuesday  
November 10      Professor Solomon Friedberg, Boston College      MATH 175  
"Twisted Euler Products"  
4:30 P.M.

### Elliptic Curves Seminar

Tuesday  
November 11      Yu Tsumura, Purdue University      MATH 731  
"Elliptic Curves over Finite Fields"  
4:30 P.M.

### MMP Reading Seminar

Wednesday  
November 11      Dr. Kyungyong Lee, Purdue University      MATH 731  
"Outline of BCHM's Approach"  
2:30 P.M.

**Working Algebraic Geometry Seminar**

Wednesday November 11	Professor Peter Petrov, Purdue University “On the Geometry of Arc Spaces” 3:30 P.M.	MATH 731
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**Student Topology/Geometry Seminar**

Thursday November 5	Mr. Urs Fuchs, Purdue University “Differential Graded Algebras” 12:30 P.M.	MATH 731
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**Topology Seminar**

Thursday November 12	Philip Hackney, Purdue University “Homology Operations in the Spectral Sequence of a Cosimplicial Space” 3:30 P.M.	REC 103
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**Algebra and Algebraic Geometry Seminar**

Thursday November 12	Professor Shreeram S. Abhyankar, Purdue University “Dicritical Divisors and Quadratic Transformations, Part II” 4:30 P.M. <b>THIS TALK HAS BEEN CANCELLED DUE TO FACULTY MEETING</b>	MATH 215
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**Scattering and Spectral Theory Seminar**

Thursday November 12	Kiril Datchev, University of California at Berkeley “Quantum Decay Rates for Manifolds with Hyperbolic Ends” 4:30 P.M.	REC 103
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**Computational and Applied Mathematics Seminar**

Friday November 13	Professor Chiu-Yen Gao, Ohio State University “An Efficient Algorithm for Shape Optimization on Elliptic Eigenvalue Problems” 3:30 P.M.	REC 303
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You can also view this information on our departmental web page:  
<http://calendar.science.purdue.edu/math/seminars>