

# PURDUE

UNIVERSITY

## Department of Mathematics Seminars and Colloquia

February 5–February 9, 2007

### Graduate Students Commutative Algebra Seminar

Monday  
February 5  
Mr. Yihuang Shen, Purdue University  
“Matrix Factorization and Linear Maximal Cohen–Macaulay Modules”  
1:30 P.M. MATH 731

### Geometric Analysis Seminar

Monday  
February 5  
Professor Jae–Seong Cho, Purdue University  
“Subelliptic Multipliers and Estimates for  $\bar{d}$ -bar Neumann Problems”  
4:30 P.M. MATH 215

### Function Theory Seminar

Tuesday  
February 6  
Professor Alex Eremenko, Purdue University  
“Zeros of Eigenfunctions of Some Anharmonic Oscillators”  
2:30 P.M. BRNG 2280

### Department of Mathematics Special Colloquium

Tuesday  
February 6  
Professor Jackie Shen, University of Minnesota  
“Diffuse Interfaces and Gamma–Convergence for Image Segmentation”  
4:30 P.M. MATH 175

### Commutative Algebra Seminar

Wednesday  
February 7  
Professor Mee–Kyoung Kim, SungKyunKwan University, visiting Purdue  
“The Gorenstein Property of Rings Associated to Filtrations”  
1:30 P.M. MATH 731

### Working Algebraic Geometry Seminar

Wednesday  
February 7  
Professor Orlando Villamayor, University of Madrid  
“A Weak Form of Tschirnhausen in Positive Characteristic”  
3:30 P.M. – 6:00 P.M. BRNG 2275

### Automorphic Forms & Representation Theory Seminar

Thursday  
February 8  
Professor Steven Spallone, Purdue University  
“Weighted Orbital Integrals as Residues”  
1:30 P.M. MATH 731

### Operator Algebras Seminar

Thursday  
February 8  
Mr Deniz Yildirim, Purdue University  
“The Pimsner  $C^*$ -algebra”  
2:30 P.M. MATH 731

### Topology Seminar

Thursday  
February 8  
Professor Craig Westerland, University of Wisconsin  
“Transfer Maps in String Topology”  
3:30 P.M. MATH 211

### Number Theory Seminar

Thursday February 8	Louis de Branges, Purdue University “Theta Functions of Modular Forms” 3:30 P.M.	MATH 731
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### Department of Mathematics Special Colloquium

Thursday February 8	Dr. Panagiotis Stinis, Lawrence Berkeley National Laboratory “Long Memory Mori Zwanzig Models for the Euler Equations” 4:30 P.M.	BRNG B232
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### Joint Geometry/Topology Seminar

Saturday February 10	Richard Hind, (Notre Dame) and Kevin Costello (Northwestern) Hind’s: “Symplectic Embeddings in Euclidean Space” Costello’s: “Renormalisation and the Batalin–Vilkovisky Formalism” 10:00–11 A.M. and 11:15–12:15 P.M.	IUPUI LD229
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You can also view this information on our departmental web page:  
<http://calendar.science.purdue.edu/math/seminars>