

# PURDUE

UNIVERSITY

## Department of Mathematics Seminars and Colloquia

November 26–30, 2007

### Geometric Analysis Seminar

Monday  
November 26 Mr. Jaehong Kim, Princeton University MATH 731  
“A Splitting Theorem for Holomorphic Banach Bundles”  
3:30 P.M.

### Probability Seminar

Monday  
November 26 Professor Elton P. Hsu, Northwestern University REC 226  
“TBA”  
3:30 P.M.

### Commutative Algebra Seminar

Monday  
November 26 Professor Andy Kustin, University of South Carolina (visiting Purdue) MATH 215  
“Socle Degrees, Frobenius Powers, and Resolutions”  
4:30 P.M.

### Bridge to Research Seminar

Monday  
November 26 Professor Joseph Lipman, Purdue University REC 121  
“Rational Points on Conics, and Local-global Relations in Number Theory”  
4:30-5:20 P.M.

### Jean E. Rubin Memorial Lecture

Tuesday  
November 27 Professor Brooke Shipley, University of Illinois at Chicago MATH 175  
“Rings up to Homotopy”  
4:30 P.M.

### Working Algebraic Geometry Seminar

Wednesday  
November 28 Professor Andrei Gabrielov, Purdue University REC 116  
“Topological Complexity of Real Semialgebraic Sets, III”  
3:30 P.M.

### Department of Mathematics Special Colloquium

Wednesday  
November 28 Dr. Tong Liu, University of Pennsylvania BRNG 2275  
“ $p$ -adic Galois Representation and  $p$ -adic Hodge Theory”  
4:30 P.M.

### Student Seminar on Operator Algebras

Thursday  
November 29 Mr. Prahlad Vaidyanathan, Purdue University MATH 731  
“Exact  $C^*$ -algebras and Related Topics, Chapter 1, IV”  
2:30-4:00 P.M.

### Topology Seminar

Thursday  
November 29 Professor Atabey Kaygun, The Ohio State University MATH 211  
“Hopf-Hochschild Cohomology of Module Algebras”  
3:30 P.M.

**Department of Mathematics Special Colloquium**Friday  
November 30Dr. Peter Albers, Courant Institute, NYU  
“Symplectic Geometry and Floer Homology”  
4:30 P.M.

BRNG 1245

**Computational & Applied Mathematics Seminar**Friday  
November 30Professor Weiqing Ren, Courant Institute, NYU  
“Coupled Atomistic-continuum Methods for Fluids”  
3:30 P.M.

REC 315

You can also view this information on our departmental web page:  
<http://calendar.science.purdue.edu/math/seminars>