## Department of Mathematics
### Seminars and Colloquia
#### October 18-22, 2010

### Geometric Analysis Seminar
- **Monday, October 18**
  - **Professor Fabrice Baudoin, Purdue University**
  - "Heat Kernel Analysis and Volume Comparison Theorems on Subriemannian Manifolds"
  - 3:30 P.M.
  - **REC 117**

### Automorphic Forms and Representation Theory Seminar
- **Monday, October 18**
  - **Professor S. Gelbart, Weizmann Institute (Israel)**
  - "A p-adic Integral for the Reciprocal of L-functions"
  - 4:30 P.M.
  - **REC 116**

### Student Commutative Algebra Reading Seminar
- **Monday, October 18**
  - **Youngsu Kim, Purdue University**
  - "Reading Ideals Varieties and Algorithms by Cox, Little & O’Shea, 3. Elimination Theory (Section 3.2)"
  - 4:30 P.M.
  - **MATH 211**

### Symplectic Geometry Seminar
- **Tuesday, October 19**
  - **Professor Dusa McDuff, Columbia University, Barnard College**
  - "On the Virtual Moduli Cycle"
  - 9:30 A.M.
  - **BRNG B230**

### Commutative Algebra Reading Seminar
- **Tuesday, October 19**
  - **Professor Manoj Kummini, Purdue University**
  - "Coverings"
  - 10:30 A.M.
  - **MATH 731**

### Student Topology/Geometry Seminar
- **Tuesday, October 19**
  - **Mr. Urs Fuchs, Purdue University**
  - "On Quasiconformal Maps and Beltrami Forms"
  - 12:30 P.M.
  - **MATH 731**

### Operator Algebras Seminar
- **Tuesday, October 19**
  - **Professor Marius Dadarlat, Purdue University**
  - "Deformations of Group C*-algebras"
  - 2:30 P.M.
  - **MATH 731**

### Seminar on Perverse Sheaves
- **Tuesday, October 19**
  - **Professor Uli Walther, Purdue University**
  - "Riemann-Hilbert Correspondence"
  - 3:00 P.M.
  - **UNIV 001**

### Jean E. Rubin Memorial Lecture
- **Tuesday, October 19**
  - **Professor Dusa McDuff, Columbia University, Barnard College**
  - "Symplectic Embeddings and Continued Fractions"
  - 4:30 P.M.
  - **MATH 175**
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<tr>
<td>Math Club Seminar</td>
<td>Tuesday</td>
<td>6:00 P.M.</td>
<td>REC 108</td>
<td>Professor Fabrice Baudoin, Purdue University “Brownian Motion and Stochastic Integrals”</td>
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<td>Working Algebraic Geometry Seminar</td>
<td>Wednesday October 20</td>
<td>3:30 P.M.</td>
<td>MATH 731</td>
<td>Professor Karl Schwede, University of Utah “The Behavior of the Test Ideals Under Finite Maps”</td>
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<td>Commutative Algebra Seminar</td>
<td>Wednesday October 20</td>
<td>4:30 P.M.</td>
<td>MATH 211</td>
<td>Professor Karl Schwede, University of Utah “Counting and ComputingCompatibly Frobenius Split Subvarieties”</td>
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<td>PDE Seminar</td>
<td>Thursday</td>
<td>3:30 P.M.</td>
<td>REC 108</td>
<td>Mr. Chaoqun Huang, Purdue University “Singular Perturbation and Bifurcation of Diffused Layers in Inhomogeneous Media”</td>
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<td>Algebra and Algebraic Geometry Seminar</td>
<td>Thursday October 21</td>
<td>4:30 P.M.</td>
<td>MATH 211</td>
<td>Professor William J. Heinzer, Purdue University &quot;Rees Rings and Dicritical Divisors, Part II&quot;</td>
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<td>Mathematical Biology Seminar</td>
<td>Friday October 22</td>
<td>9:30 A.M.</td>
<td>REC 302</td>
<td>Dr. Giao Huynh, Oakland University “Alternating Host Cell Tropism Shapes the Persistence, Evolution and Coexistence of Epstein-Barr Virus Infection in Humans”</td>
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<td>Commutative Algebra Seminar</td>
<td>Friday October 22</td>
<td>1:30 P.M.</td>
<td>UNIV 001</td>
<td>Professor Claudia Polini, University of Notre Dame “j-multiplicity and the Depth of Associated Graded Rings”</td>
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<tr>
<td>Computational and Applied Mathematics Seminar</td>
<td>Friday October 22</td>
<td>3:30 P.M.</td>
<td>REC 308</td>
<td>Professor Selim Esedoglu, University of Michigan “Simulating Grain Boundary Motion in Polycrystals”</td>
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You can also view this information on our departmental web page: http://calendar.science.purdue.edu/math/seminars