Department of Mathematics  
Seminars and Colloquia  
October 25-29, 2010

**Geometric Analysis Seminar**  
**Monday, October 25**  
Professor Tim Perutz, University of Texas at Austin  
“Lagrangian Correspondences and Heegaard Floer Homology for 3-manifolds with Boundary”  
3:30 P.M.  
REC 117

**Commutative Algebra Reading Seminar**  
**Tuesday, October 26**  
Professor Manoj Kummini, Purdue University  
“Coverings”  
10:30 A.M.  
MATH 731

**Student Topology/Geometry Seminar**  
**Tuesday, October 26**  
Mr. Urs Fuchs, Purdue University  
“On Quasiconformal Maps and Beltrami Forms, part 2”  
12:30 P.M.  
MATH 731

**Operator Algebras Seminar**  
**Tuesday, October 26**  
Professor Marius Dadarlat, Purdue University  
“Deformations of Group $C^*$-algebras, II”  
2:30 P.M.  
MATH 731

**Seminar on Perverse Sheaves**  
**Tuesday, October 26**  
Professor Uli Walther, Purdue University  
“D-modules (cont.)”  
3:00 P.M.  
UNIV 001

**Lecture in Memory of Leonard Berkovitz**  
**Tuesday, October 26**  
Professor H.T. Banks, North Carolina State University  
“Relaxed Controls, Differential Games, Preisach Hysteresis, and Mixing Distributions in Statistical Inverse Problems”  
4:30 P.M.  
MATH 175

**Function Theory Seminar**  
**Wednesday, October 27**  
Professor Nageswari Shanmugalingam, University of Cincinnati  
“A Geometric Characterization of $\infty$-Poincaré Inequality”  
1:30 P.M.  
REC 317

**Working Algebraic Geometry Seminar**  
**Wednesday, October 27**  
Professor Manoj Kummini, Purdue University  
“Poset Structure of Supernatural Vector Bundles”  
3:30 P.M.  
MATH 731

**Automorphic Forms and Representation Theory Seminar**  
**Thursday, October 28**  
Professor Luis Lomeli, Purdue University  
“On Functoriality and the Ramanujan Conjecture over a Global Function Field”  
4:30 P.M.  
BRNG 1242
**Topology Seminar**

<table>
<thead>
<tr>
<th>Thursday</th>
<th>October 28</th>
<th>Professor Andrew Toms, Purdue University</th>
<th>UNIV 001</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>“Ranks of Operators and the Classification of $C^*$-algebras”</td>
<td>1:30 P.M.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NOTE: Unusual time and place</td>
<td></td>
</tr>
</tbody>
</table>

**Symplectic Geometry Seminar**

<table>
<thead>
<tr>
<th>Thursday</th>
<th>October 28</th>
<th>Dr. Mark McLean, MIT</th>
<th>REC 103</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>“The Growth Rate of Symplectic Homology and Algebraic Stein Fillings”</td>
<td>5:00 P.M.</td>
</tr>
</tbody>
</table>

**Scattering Theory Seminar**

<table>
<thead>
<tr>
<th>Friday</th>
<th>October 29</th>
<th>Professor Fernando Cardoso, Universidade Federal de Pernambuco, Brazil</th>
<th>REC 103</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>“Dispersive Estimates for Wave and Schroedinger Equations”</td>
<td>1:30 P.M.</td>
</tr>
</tbody>
</table>

**Computational and Applied Mathematics Seminar**

<table>
<thead>
<tr>
<th>Friday</th>
<th>October 29</th>
<th>Professor Albert Fannjiang, University of California at Davis</th>
<th>REC 308</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>“Compressive Imaging”</td>
<td>3:30 P.M.</td>
</tr>
</tbody>
</table>

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