

Main Talks: CB 349. Parallel sessions: CB 343 and 345.

Saturday, March 8, 2014

1. Saturday Morning Sessions

8:30 AM	Coffee and registration	CB 347
9:00 AM	Opening and welcome	CB 349
	Session I: Chair Michael Goldberg	
9:10 AM	Wilfrid Gangbo , Georgia Institute of Technology <i>Analysis of the almost axisymmetric flow energy</i>	CB 349
10:15 AM	Irina Mitrea , Temple University <i>Recent Progress in the Riemann-Hilbert Problem for Dirac Operators in Uniformly Rectifiable Domains</i>	CB 349
11:15 AM	Coffee break	CB 347
11:30 AM	Parallel Session 1A: Chair Nages Shanmugalingam Parallel Session 1B: Chair Russell Brown	CB 343 CB 345
12:30 PM	Lunch	nearby the campus

2. PARALLEL SESSION 1A

11:30 AM	Yuanzhen Shao <i>Analyticity of solutions to the Yamabe flow on noncompact manifolds</i>	Vanderbilt
12:00 PM	Yayuan Xiao <i>Multi-parameter Hardy spaces</i>	Ball State

3. PARALLEL SESSION 1B

11:30 AM	David Smith <i>Well-posedness and spectral representation linear initial-boundary value problems</i>	UC
12:00 PM	Cheng Yu <i>Existence of global weak solutions to the compressible Navier-Stokes equation with density dependent viscosity</i>	U. Texas Austin

4. Saturday Afternoon Sessions

Session II: Chair Peter Hislop

2:00 PM	Allan Greenleaf , University of Rochester <i>Multilinear operators and Erdős-Falconer point configuration problems</i>	CB 349
3:00 PM	Coffee break	CB 347
3:30 PM	Parallel session 2A: Chair Leonid Slavin	CB 343
	Parallel Session 2B: Chair Changyou Wang	CB 345
6:30 PM	Conference Dinner	124 North Ashland Avenue nearby the campus

5. PARALLEL SESSION 2A

3:30 PM	Nadya Askaripour <i>Characterization of closed sets on non-compact Riemann surfaces</i>	UC
4:00 PM	Xiaoyue Cui <i>New characterizations of Sobolev space on Heisenberg group</i>	Wayne State
4:30 PM	Xining Li <i>Bounded Geometry under Sphericalization</i>	UC

6. PARALLEL SESSION 2B

3:30 PM	Michael Music <i>The nonlinear Fourier transform for two-dimensional subcritical potentials</i>	UK
4:00 PM	David Herron <i>Finite distortion mappings with subexponentially integrable distortion</i>	UC
4:30 PM	Will Green <i>Dispersive estimates with threshold resonances</i>	Rose-Hulman

Sunday, March 9, 2014: Daylight Savings Time Begins!

8:30 AM	Coffee	CB 347
	Session III: Chair Katy Ott	
9:00 AM	Ciprian Demeter , Indiana University <i>Proof of the l^2 decoupling conjecture</i>	CB 349
10:00 AM	Suzanne Lenhart , University of Tennessee, Knoxville and NIMBioS <i>Using optimal control of PDEs to investigate population questions</i>	CB 349
11:00 AM	Coffee break	CB 347
11:15 AM	Parallel session 3A: Chair Zhongwei Shen	CB 343
	Parallel session 3B: Chair Nages Shanmugalingam	CB 345
12:15	Lunch	nearby the campus

7. PARALLEL SESSION 3A

11:15 AM	Tao Huang	Penn State
	<i>Eulerian description of variational wave equation and singularity formation</i>	
11:45 AM	Guanying Peng	Purdue
	<i>Analysis of energy minimizers of the Lawrence- Doniach model in perpendicular magnetic fields</i>	

8. PARALLEL SESSION 3B

11:15 AM	Baishun Lai	UK
	<i>Regularity of solutions to semilinear fourth order elliptic problems</i>	
11:45 AM	Jiuyi Zhu	Johns Hopkins
	<i>Quantitative uniqueness of elliptic equations</i>	

9. Sunday Afternoon Sessions

- 1:30 PM Parallel session 4A: Chair Changyou Wang CB 343
 Parallel session 4B: Chair Michael Goldberg CB 345
- 3:00 PM Completion of the conference

10. PARALLEL SESSION 4A

- 1:30 PM Marcelo Disconzi Vanderbilt
Slightly compressible fluids in a bounded domain
- 2:00 PM Shenghao Li UC
*Initial boundary value problem for sixth-order
 Boussinesq equation*
- 2:30 PM Geng Chen Georgia Tech
Well-posedness for variational wave equations

11. PARALLEL SESSION 4B

- 1:30 PM Jarod Hart Wayne State
*A biparameter Tb theorem with an application
 to holomorphic extension in C^2*
- 2:00 PM Tom Bieske U. South Florida
Parabolic equations in Carnot groups
- 2:30 PM Junyu Lin UK
*Global well-posedness of Landau-Lifshitz-Gilbert
 equation for initial data in Morrey space*