

ORAM 8
University of Kentucky
Saturday, 24 March 2018
Patterson Hall

1. Saturday Morning Sessions

8:30 AM	Coffee and registration	PAHA 221
9:00 AM	Opening and welcome	PAHA 218/219
	Session I: Chair TBA	
9:10 AM	Plamen Stefanov , Purdue University <i>Local and global boundary rigidity</i>	PAHA 218/219
10:15 AM	Andreas Seeger , University of Wisconsin <i>Spherical maximal functions on the Heisenberg groups</i>	PAHA 218/219
11:15 AM	Coffee break	PAHA 221
11:30 AM	Parallel Session 1A: Chair TBA	PAHA 205
	Parallel Session 1B: Chair TBA	PAHA 209
	Parallel Session 1C: Chair TBA	PAHA 225
	Parallel Session 1D: Chair TBA	PAHA 229
12:30 PM	Lunch	nearby the campus

2. PARALLEL SESSION 1A

11:30 AM	Henok Mawi (Howard Univ.)	<i>On the numerical solution to an inverse problem of refraction</i>
12:00 AM	George Lytle (Univ. of Kentucky)	<i>Calderón's problem for rough conductivities</i>

3. PARALLEL SESSION 1B

- 11:30 AM Justin Taylor *Eigenvalue convergence for the mixed problem*
(Murray State Univ.)
- 12:00 AM Shiwen Zhang *Refined LDT for the quasiperiodic lattice Schrödinger operator*
(Michigan State Univ.) *and optimal Hölder continuity of Lyapunov exponents*

4. PARALLEL SESSION 1C

- 11:30 AM Xin Yang *Lifespan estimate for the partial nonlinear radiation*
(Univ. of Cincinnati) *problems*
- 12:00 PM Dat Cao *Asymptotic expansions for solutions of Navier-Stokes*
(Texas Tech.) *equations*

5. PARALLEL SESSION 1D

- 11:30 AM Zijian Diao *Modern analysis on e and $\zeta(2)$*
(Ohio Univ.)
- 12:00 PM Katie Elliott *A self-adjoint operator generated by the Krall*
(Baylor Univ.) *equation in an extended Hilbert space*

6. Saturday Afternoon Sessions

Session II: Chair TBA

- 2:00 PM **Sijue Wu**, University of Michigan
On the motion of 2D water waves with angled crests PAHA 218/219
- 3:00 PM Coffee break PAHA 221
- 3:30 PM Parallel session 2A: Chair TBA PAHA 205
- Parallel Session 2B: Chair TBA PAHA 209
- Parallel Session 2C: Chair TBA PAHA 225
- Parallel Session 2D: Chair TBA PAHA 229
- 6:00 PM Conference Dinner Maxwell Presbyterian Church

7. PARALLEL SESSION 2A

- 3:30 PM Robert Freeman
(Univ. South Florida) *The $p(x)$ Laplacian in Carnot groups*
- 4:00 PM Derek Jung
(UIUC) *Bilipschitz embeddings into jet space Carnot groups
not admitting Lipschitz extensions*
- 4:30 PM Thomas Bieske
(Univ. South Florida) *A subelliptic fundamental solution*

8. PARALLEL SESSION 2B

- 3:30 PM John Dever
(Georgia Tech.) *Local space and time scaling exponents for diffusion
on a compact metric space*
- 4:00 PM Oleksandr Misiats
(Virginia Commonwealth) *Linear and nonlinear elastic model of shape memory
alloys*
- 4:30 PM Hagop Tossounian
Baylor Univ. *Kac's Model and approach to equilibrium using the
Gabetta-Toscani-Wennberg metric*

9. PARALLEL SESSION 2C

- 3:30 PM Alan Chang
(Univ. of Chicago) *Analytic capacity and projections*
- 4:00 PM Mariana Smit Vega Garcia
(Univ. of Washington) *Higher regularity of the free boundary in the parabolic
Signorini problem*
- 4:30 PM Gareth Speight
(Univ. of Cincinnati) *Maximal directional derivatives and universal
differentiability sets*

10. PARALLEL SESSION 2D

- 3:30 PM Jiaqi Liu
(Univ. of Toronto) *Inverse scattering for the derivative NLS with
arbitrary spectral singularity*
- 4:00 PM Jack Arbutich
(UIC) *Regularizing nonlinear Schrödinger equations
through partial off-axis variations*
- 4:30 PM Iurii Posukhovskiy
(Univ. of Kansas) *On the normalized ground states for the Kawahara
equation and a fourth order NLS*

Sunday, 25 March 2016
White Hall (Classroom Building)

8:30 AM	Coffee	outside CB 106
	Session III: Chair TBA	
9:00 AM	Catherine Sulem , University of Toronto <i>Surface water waves over a variable bottom</i>	CB 106
10:00 AM	Parallel session 3A: Chair TBA	CB 341
	Parallel session 3B: Chair TBA	CB 343
	Parallel Session 3C: Chair TBA	CB 345
	Parallel Session 3D: Chair TBA	CB 347
11:30 AM	Coffee break	outside CB 106
12:00 AM	Matthew Badger , University of Connecticut <i>Open problems in curves, sets, and measures</i>	CB 106
1:00	End of Conference	

11. PARALLEL SESSION 3A

10:00 PM	Weiqun Zhang (Wright State Univ.)	<i>A uniformly convergent numerical method for quasilinear singular perturbation problems</i>
10:30 AM	Abba Ramadan (Univ. of Kansas)	<i>Existence of traveling waves for a class of nonlocal nonlinear equations with bell-shaped kernels</i>
11:00 PM	Manki Cho (Rochester Inst. Tech.)	<i>Steklov eigenproblems and representations of harmonic functions</i>

12. PARALLEL SESSION 3B

10:00 AM	Ignacio Uriarte-Tuero (Michigan State Univ.)	<i>Two weight norm inequalities for singular and fractional integral operators in R^n</i>
10:30 AM	Isaac Michael (Baylor Univ.)	<i>Birman-Hardy-Rellich-type inequalities and refinements</i>
11:00 AM	Dong Dong (UIUC)	<i>Polynomial Roth theorem in finite fields</i>

13. PARALLEL SESSION 3C

- 10:00 AM Haojian Li *Decay to bar states*
(UIUC)
- 10:30 AM Jacob Makaya *Static bubbles in a channel*
(Texas A&M Int.)
- 11:00 AM Taige Wang *Analysis on shearing flows of a thixotropic model*
(Univ. of Cincinnati)

14. PARALLEL SESSION 3D

- 10:00 AM Charles Baker *Localization of eigenvalues of doubly cyclic matrices*
(Ohio State)
- 10:30 AM Matt Reynolds *Interpolation of operators*
(U. Louisville)
- 11:00 AM Alex Stokolos *On extreme polynomials of a complex variable*
(Georgia Southern)