

Short Courses

Ron DeVore University of South Carolina	The Mathematical Foundations of Compressed Sensing
Steve Hofmann University of Missouri-Columbia	Local T_b Theorems and Applications in PDE
Carlos Kenig University of Chicago	Some Recent Developments in Nonlinear Dispersive Equations
Gilles Pisier Texas A&M University University of Paris VI	Complex Interpolation between Banach, Hilbert and Operator Spaces

Main Speakers

P. Auscher U. Paris-Sud	On a square function estimate related to the Kato problem and solvability of elliptic PDE's
J. Bennett U. Birmingham	Heat-flow monotonicity related to some norm inequalities in analysis
A. Carbery U. Edinburgh	Affine inequalities in harmonic analysis
M. Junge U. Illinois, Urbana-Champaign	Noncommutative Riesz transforms for Fourier multipliers
A. McIntosh Australian National U.	A new approach to solvability of some elliptic PDE's with square integrable boundary data
C. Muscalu Cornell U.	Flag Paraproducts
J. Ortega-Cerdà U. Barcelona	On the univalent Bloch-Landau constant
S. Petermichl U. Bordeaux	Iterated Riesz commutators and a characterization of product BMO
A. Seeger U. Wisconsin , Madison	Local smoothing inequalities and radial Fourier multipliers
S. Thangavelu Indian Statistical Institute	On the unreasonable effectiveness of Gutzmer's formula
L. Vega U. País Vasco	Bilinear virial identities and applications
G. Weiss Washington U.	Principal Invariant Subspaces for Unitary Representations of LCA Groups
Q. Xu U. Franche-Comté	Vector-valued and noncommutative aspects of Littlewood-Paley theory

Tentative Schedule

Monday 16

09:15-10:00	Registration	
10:00-10:05	Welcome to participants	
10:15-11:15	R. DeVore (I)	The Mathematical Foundations of Compressed Sensing
11:15-11:45	Coffee break	
11:45-12:45	C. Kenig (I)	Some Recent Developments in Nonlinear Dispersive Equations
12:45-13:30	A. McIntosh	A new approach to solvability of some elliptic PDE's with square integrable boundary data
13:35-15:45	Lunch	
15:45-16:30	J. Bennett	Heat-flow monotonicity related to some norm inequalities in analysis
16:35-17:00	Coffee Break	
17:00-17:45	L. Vega	Bilinear virial identities and applications
18:00-18:45	S. Thangavelu	On the unreasonable effectiveness of Gutzmer's formula

Tuesday 17

09:15-10:15	R. DeVore (II)	The Mathematical Foundations of Compressed Sensing
10:15-11:15	S. Hofmann (I)	Local Tb Theorems and Applications in PDE
11:15-11:45	Coffee break	
11:45-12:30	A. Seeger	Local smoothing inequalities and radial Fourier multipliers
12:45-13:45	G. Pisier (I)	Complex Interpolation between Banach, Hilbert and Operator Spaces
13:45-15:45	Lunch	
15:45-16:45	Short Talks	
16:45-17:00	Coffee Break	
17:00-19:05	Short Talks	

Wednesday 18

09:15-10:15	R. DeVore (III)	The Mathematical Foundations of Compressed Sensing
10:15-11:15	C. Kenig (II)	Some Recent Developments in Nonlinear Dispersive Equations
11:15-11:45	Coffee break	
11:45-12:30	P. Auscher	On a square function estimate related to the Kato problem and solvability of elliptic PDE's
12:45-13:45	S. Hofmann (II)	Local Tb Theorems and Applications in PDE
13:45-15:45	Lunch	
15:45-16:30	Q. Xu	Vector-valued and noncommutative aspects of Littlewood-Paley theory
16:35-17:00	Coffee Break	
17:00-17:45	S. Petermichl	Iterated Riesz commutators and a characterization of product BMO
18:00-18:45	C. Muscalu	Flag Paraproducts

Thursday 19		
09:15-10:15	G. Pisier (II)	Complex Interpolation between Banach, Hilbert and Operator Spaces
10:15-11:15	C. Kenig (III)	Some Recent Developments in Nonlinear Dispersive Equations
11:15-11:45	Coffee break	
11:45-12:30	A. Carbery	Affine inequalities in harmonic analysis
12:45-13:30	J. Ortega-Cerdà	On the univalent Bloch-Landau constant
13:35-15:45	Lunch	
15:45-16:45	Short Talks	
16:45-17:00	Coffee Break	
17:00-19:05	Short Talks	

Friday 20		
09:15-10:15	S. Hofmann (III)	Local T_b Theorems and Applications in PDE
10:15-11:15	G. Pisier (III)	Complex Interpolation between Banach, Hilbert and Operator Spaces
11:15-11:45	Coffee break	
11:45-12:30	M. Junge	Noncommutative Riesz transforms for Fourier multipliers
12:45-13:30	G. Weiss	Principal Invariant Subspaces for Unitary Representations of LCA Groups
13:35-15:45	Lunch	

Short Talks

Tuesday 17

	Room 1	Room 2	Room 3
15:45-16:00	Nyström	Curbera	Baklouti
16:05-16:20	Badr	Chua	Ben Salah
16:25-16:40	Bernicot	Boza	Flores
16:45-17:00	Coffee Break		
17:00-17:15	Schul	Sawano	Sifi
17:20-17:35	Uriarte	Paluszyński	Daher
17:40-17:55	Whitehouse	Morris	Sidi Lafdal
18:05-18:20	Chae	Gatto	Urbina
18:25-18:40	Pandey	Luef	Maas
18:45-19:00	Ujlayan	Liflyand	Nowak

Thursday 19

	Room 1	Room 2	Room 3
15:45-16:00	Bez	Axelsson	Trujillo González
16:05-16:20	Hagelstein	Ben Ali	Hytönen
16:25-16:40	Lie	Portal	Viola
16:45-17:00	Coffee Break		
17:00-17:15	Blasco	Ombrosi	Sjögren
17:20-17:35	Hong	Sanmartino	Betancor
17:40-17:55	Kim	Moen	Dogga
18:05-18:20	Folch	Wall	Mei
18:25-18:40	Suazo	Ou	Feuto