

Real Harmonic Analysis and its Applications to Partial Differential Equations and Geometric Measure Theory

On the occasion of the 60th birthday of Steve Hofmann

ICMAT (Madrid, Spain)

May 28 - June 1, 2018



WORKSHOP SCHEDULE

Main Talks (Aula Azul)

Monday 28		
09:00 – 09:20	Registration (ICMAT Main Entrance)	
09:20 – 09:30	Welcome to participants	
09:30 – 10:30	G. David	Harmonic measure with lower dimensional boundaries
10:30 – 11:30	D. Mitrea	The Poisson integral representation formula for elliptic systems in rough domains
11:30 – 12:00	Coffe Break (ICMAT Cafeteria)	
12:00 – 13:00	X. Tolsa	Favard length, analytic capacity, and the Cauchy transform
13:00	Lunch (UAM Plaza Mayour - Ground Floor)	

Tuesday 29

09:30 – 10:30	K. Nyström	The Dirichlet problem for second order parabolic operators in divergence form
10:30 – 11:30	M. Mitrea	Fatou Theorems for Elliptic Systems in Uniformly Rectifiable Domains
11:30 – 12:00	Coffe Break (ICMAT Cafeteria)	
12:00 – 13:00	D. Jerison	The Two Hyperplane Conjecture
13:00	Lunch (UAM Plaza Mayour - Ground Floor)	
14:30 – 15:30	E. Sawyer	Two weight Tb theorems and energy conditions
15:30 – 16:00	Coffe Break (ICMAT Cafeteria)	
16:30 – 17:50	Short Talks	
19:00	Conference Reception (ICMAT Cafeteria)	

Wednesday 30

09:30 – 10:30	J. Lewis	Existence and Regularity of a Capacitary Functions in a Minkowski Inspired Geometric Problem
10:30 – 11:30	A. Volberg	Using tree to climb on hypercube
11:30 – 12:00	Coffe Break (ICMAT Cafeteria)	
12:00 – 13:00	A. Barton	The Neumann problem for symmetric higher order elliptic differential equations
13:00	Lunch (UAM Plaza Mayour - Ground Floor)	

Thursday 31

09:30 – 10:30	M. Lacey	A Surplus of Sparse Bounds
10:30 – 11:30	J. Pipher	Boundary value problems for complex coefficient p -elliptic operators
11:30 – 12:00	Coffe Break (ICMAT Cafeteria)	
12:00 – 13:00	C. Kenig	The method of channels of energy
13:00	Lunch (UAM Plaza Mayour - Ground Floor)	
14:30 – 15:30	Short Talks	
15:30 – 16:00	Coffe Break (ICMAT Cafeteria)	
16:30 – 17:50	Short Talks	
20:00	Conference Dinner (Restarante El Goloso)	

Friday 1		
09:30 – 10:30	A. Iosevich	Fuglede, Riesz and Gabor: analytic, combinatorial and number theoretic aspects of the existence problems for exponential bases
10:30 – 11:30	P. Auscher	Existence and uniqueness for non-autonomous parabolic Cauchy problems with rough coefficients
11:30 – 12:00	Coffee Break (ICMAT Cafeteria)	
12:00 – 13:00	T. Toro	Elliptic measure and rectifiability
13:00	Lunch (UAM Plaza Mayour - Ground Floor)	

Short Talks

Tuesday 29		
	Aula Azul	Aula Naranja
16:30 – 16:50	Marín	Brocchi
17:00 – 17:20	Engelstein	Aldaz
17:30 – 17:50	Saari	Domínguez

Thursday 31		
	Aula Azul	Aula Naranja
14:30 – 14:50	Cavero	Chua
15:00 – 15:20	Prisuelos	Hong
15:30 – 16:00	Coffee Break (ICMAT Cafeteria)	
16:30 – 16:50	Turner	Jaye
17:00 – 17:20	Conde	Merchán
17:30 – 17:50	Akman	Ocriz

