

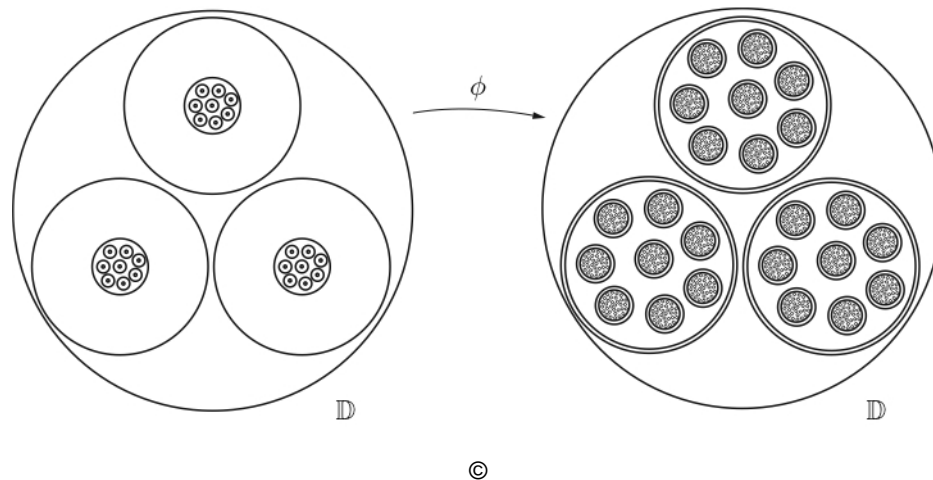


Harmonic Analysis, Geometric Measure Theory and Quasiconformal Mappings

Centre de Recerca Matemàtica, Bellaterra • Spain
14-20 June 2009

Chair: **Prof Pertti Mattila**, University of Helsinki, Finland

www.esf.org/conferences/09308



Final Programme

Sunday, 14 June

Late afternoon / early evening	Arrival at the Hotel
19.00	Welcome Drink and Registration
20.00	Free evening

Monday, 15 June

08.30-09.00	Registration
09.00-09.10	Conference Opening

Session 1:

Chair: Pertti Mattila, University of Helsinki

09.10-10:10	Kari Astala University of Helsinki <i>Random Welding</i>
10.10 – 10:40	Coffee break
10:40-11:40	Giovanna Citti Università di Bologna <i>Minimal Graphs in low dimensional step two groups</i>
11:40-12.40	Daniel Faraco Universidad Autónoma de Madrid <i>Stability of Calderón Inverse problem for discontinuous coefficients</i>
12.40 – 14:30	Lunch

Session 2:

Chair: María José González, Universidad de Cádiz

14.30-15:30	Rodrigo Bañuelos Purdue University <i>L^p multipliers arising from Lévy processes</i>
15:30 – 16:00	Coffee break
16:00-16:30	Albert Mas Universitat Autònoma de Barcelona <i>A dual characterization of the C^1 harmonic capacity and applications</i>
16:30-17:00	Spyridon Dendrinos University of Bristol <i>Universal Fourier restriction on polynomial curves</i>
17:00-18:00	Poster Presentation
20:30	Conference dinner

Tuesday, 16 June

Session 3:

Chair: Gaven Martin, Massey University

09.00-10:00

John Garnett

University of California at Los Angeles

Some variations in image processing

10.00 – 10:30

Coffee break

10:30-11:30

Eero Saksman

University of Helsinki

Sharp relations between UMD-constants and norms of singular integrals

11:30-12.30

Loredana Lanzani

University of Arkansas

Cauchy-type singular integrals in several complex variables

12.30 – 14:30

Lunch

Session 4:

Chair: Andrea Nahmod, University of Massachusetts

14.30-15:30

Tadeusz Iwaniec

University of Syracuse

Dynamics of quasiconformal fields

15:30 – 16:00

Coffee break

16:00-16:30

Tuomas Hytönen

University of Helsinki

New estimates for the norm of the Beurling-Ahlfors operator in several dimensions

16:30-17:00

Ignacio Uriarte-Tuero

Michigan State University

Astala's conjecture of Hausdorff measure distortion under planar quasiconformal mappings and related removability problems

17:00-18:00

Pascal Auscher

Université de Paris-Sud XI

Interpolation of Sobolev spaces on metric measured spaces

20:00

Free evening

Wednesday, 17 June

Session 5:

Chair: Jill Pipher, Brown University

09:00-09:15

Mats Gyllenberg

University of Helsinki

ESF Rapporteur

09.15-10:15	Guy David Université de Paris-Sud XI <i>Variants of Reifenberg's topological disk theorem</i>
10.15 – 10:45	Coffee break
10:45-11:45	Luca Capogna University of Arkansas <i>A sub-Riemannian analogue of the mean curvature flow</i>
11:45-12:45	Xiao Zhong University of Jyväskylä <i>Quasilinear elliptic equations in the Heisenberg group</i>
12.45 – 14:30	Lunch
14:30-17:30	Excursion to Barcelona Free evening

Thursday, 18 June

Session 6:

Chair: **Mark Melnikov**, Universitat Autònoma de Barcelona

09.00-10:00	Alexander Volberg Michigan State University <i>A one sided estimate for Calderon-Zygmund capacities and non-linear Maz'ya-Havin capacities</i>
10.00 – 10:30	Coffee break
10:30-11.30	Piotr Hajlasz University of Pittsburgh <i>Hölder, Sobolev, Lipschitz and smooth surjections onto metric spaces</i>
11:30-12:30	Rodolfo Torres University of Kansas <i>Sharp weighted bounds for fractional integral operators</i>
12.30 – 14:30	Lunch

Session 7:

Chair: **Michael Lacey**, Georgia Institute of Technology

14.30-15:30	László Székelyhidi Universität Bonn <i>Quasiconformal maps for quasiconvexity</i>
15:30 – 16:00	Coffee break
16:00-16:30	Istvan Prause University of Helsinki <i>Multifractality of harmonic measure and quasiconformal maps</i>
16:30-17:00	Stanislav Hencl Charles University Prague <i>Homeomorphisms in the Sobolev space and nonnegativity of the Jacobian</i>
17:00-18:00	Forward look plenary discussion
20:00	Free evening

Friday, 19 June

Session 8:

Chair: John Garnett, UCLA

09.00-10:00

Tatiana Toro

University of Washington

Analysis on non-smooth domains

10.00 – 10:30

Coffee break

10:30-11:30

Alex Iosevich

University of Missouri-Columbia

Geometric configurations in discrete and continuous settings

11:30-12.30

Marianna Csörnyei

University College London

lecture title to be announced

12.30 – 14:30

Lunch

Session 9:

Chair: Tadeusz Iwaniec, Syracuse University

14.30-15:30

Jani Onninen

Syracuse University

Harmonic mappings between doubly connected domains

15:30 – 16:00

Coffee break

16:00-16:30

Matthew Badger

University of Washington

Tangent Measures and Harmonic Polynomials

16:30-17:00

Antoine Lemenant

Scuola Normale Superiore Pisa

Some stability results for Neumann and Dirichlet problems in Reifenberg-flat domains

17:00-18:00

Gaven Martin

Massey University

Minimisers of weighted mean distortion and models for nonlinear elasticity

20:30

Conference dinner

Saturday, 20 June

Breakfast and Departure to the Airport at 9:00