

8th Workshop of Young Researchers in Mathematics

September 22-24, 2014



Universidad Complutense
de Madrid



UAM
UNIVERSIDAD AUTONOMA
DE MADRID

Monday, September 22

9:30 Registration

10:00 Opening

10:30 Christian Peskine (Institut de Mathématique de Jussieu): Secants and Tangents.

11:30 Coffee Break

12:00 Ana García Lecuona (Aix-Marseille Université): La conjectura ribbon y los nudos pretzel.

12:40 Álvaro del Pino (UAM): Donaldson techniques in symplectic foliations.

13:10 Juanjo Madrigal (UCM): The Calabi-Yau Theorem.

13:40 Lunch

15:30 Mariluz García (UAM): Resolution of singularities and Rees Algebras.

16:20 Ana Bravo (UAM): Basic objects, resolution and invariants of singularities.

17:10 Coffee Break

17:40 Iason Efraimidis (UAM): Zalcman's Conjecture for Univalent Functions.

18:10 Alberto Criado (UAM): Uniform estimates and a principle of differentiation through dimensions.

Tuesday, September 23

9:30 F. Javier Aragón Artacho (University of Luxembourg): A walking tour guided by Pi.

10:30 Andrea Tellini (UCM): The effect of fast diffusion occurring on sub-environments of lower spatial dimension.

11:10 Coffee Break

11:40 David Gómez (UCM): Efficiency over cylinders: Steiner symmetrization and shape differentiation.

12:10 Víctor Arnaiz (UAM): Local and global analysis for rough solutions of nonlinear Schrödinger equations on \mathbb{R}^n .

12:30 Verónica Hernández (UC3M): Bounds on Gromov hyperbolicity constant.

13:10 Amauris de la Cruz (UC3M): Lexicographic product graphs and hyperbolicity in the Gromov sense.

13:40 Lunch

15:30 Carlos Mora (UAM): Mathematical modelling and analysis in Solid Mechanics: elasticity, fracture, cavitation.

16:20 María Teresa Pérez (UAM): Limits as p goes to infinity in elliptic problems related to operators of p -laplacian type. Overview and recent applications.

17:10 Coffee Break

17:40 Sergio Medina (UC3M): Uniform convergence of Hermite-Padé approximants for certain systems of analytics and meromorphic functions.

18:10 Misael Marraga (UC3M): Classical and semiclassical koornwinder orthogonal polynomials in two variables.

Wednesday, September 24

9:30 Antonio Viruel (Universidad de Málaga): What is a group? Abstract groups vs transformation groups.

10:30 María del Carmen Requera (University of Birmingham): Lower bounds for fractional Riesz Transforms on General Cantor sets.

11:10 Coffee Break

11:40 Ana Granados (UC3M): Gromov Hyperbolicity in Mycielski graphs.

12:20 Óscar Domínguez (UCM): Compactness results of operators between approximation spaces.

12:50 Héctor Barge (UCM): Topological aspects of dynamical systems.

13:20 Óscar Madiedo (UCM): Global inversion of non-smooth mappings.

The Workshop will take place at the room S-106, School of Mathematics, Universidad Complutense de Madrid



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<http://www.mat.ucm.es/imy/YoungResearchers/>