

Workshop of Young Researchers in Mathematics

September 22-24, 2014



Universidad Complutense
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 conje-
tura ribbon y los nudos pretzel.
12:40 Álvaro del Pino (UAM): Donaldson techniques in s-
ymplectic foliations.
13:10 Juanjo Madrigal (UCM): to be announced.
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): Zalzman's Conjecture for Univa-
lent Functions.
18:10 Alberto Criado (UAM): tba.

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 difusión occurring
on sub-environments of lower spatial dimensión.
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 hyper-
bolicity 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 poerators 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 me-
romorphic functions.
18:10 Misael Marriaga (UC3M): Classical and semiclassical
koonwinder 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):
tba.
11:10 Coffee Break
11:40 Ana Granados (UC3M): Gromov Hyperbolicity in Mycie-
lski graphs.
12:20 Óscar Domínguez (UCM): Compactness results of opera-
tors between approximation spaces.
12:50 Héctor Barge (UCM): Topologycal 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/imi/YoungResearchers/>