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1) Convocatoria de becas

El Instituto de Matemática Interdisciplinar (IMI) ofrece dos becas de formación práctica para estudiantes de Matemáticas de la UCM:

- Bolsa para beca de formación práctica especializada en el IMI
- Bolsa para beca de formación práctica en el IMI "

Plazo de solicitud: Del 13 de mayo al 1 de junio de 2021, ambos incluidos.

Detalles de las convocatorias: <https://www.ucm.es/imi/open-positions>

Más información: secreadm.imi@mat.ucm.es

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2) Eventos del 24 al 28 de mayo de 2021

Seminario de doctorandos

Título: There are no Banach function spaces, only weighted L^2


Conferenciante: Sergi Baena i Miret

Día y hora: 25 de Mayo de 2021 a las 16:30h

Lugar: [Google Meet](#)

Organizado por: Red de Doctorandos en Matemáticas (UCM) con la colaboración del Instituto de Matemática Interdisciplinar (IMI)

Seminario:
Sergi Baena i Miret
Universitat de Barcelona



There are no Banach function spaces, only weighted L^2

An important property of the $A_{p, \lambda}$ weights is the extrapolation theorem of Rubio de Francia. It was announced in 1982 and given with a detailed proof in 1984, both by J.L. Rubio de Francia. In its original version, reads as follows: "if T is a sublinear operator which satisfies the strong type boundedness




$$T: L^1(\nu) \rightarrow L^1(\nu)$$

for every weight ν belonging to $A_{1, \lambda}$ with constant only depending on λ then for $1 < p < \infty$,

$$T: L^p(\nu) \rightarrow L^p(\nu)$$

is bounded for every ν in $A_{p, \lambda}$, with constant depending only on λ . This led Antonio Córdoba to assert: "There are no L^p spaces, only weighted L^2 ". Indeed, this result can be extended to any Banach function spaces (and beyond...).

MARTES, 25 DE MAYO DE 2021, 16:30h
<https://meet.google.com/bvy-ebhw-pbj> Colaboran:

  
@RedDocMat
<http://blogs.mat.ucm.es/doctorando/mat/>

Seminario: Iberoamerican webinar of young researchers in singularity theory

Title: On k -folding map-germs and hidden symmetries of surfaces in the Euclidean 3-space I

Speaker: Guillermo Peñafort Sanchís (Universitat de Valencia, Valencia, Spain)

Days: May 26th, 2021

Hour: 17:00 (GMT +2)

Place: [Online \(Google Meet\)](#)

Organized by: Instituto de Matemática Interdisciplinar (IMI), Patricio Almirón, Pablo Portilla Cuadrado y Juan Viu-Sos

To attend send an e-mail to iberosing@ucm.es

More info on: <https://iberosing.github.io/>

IBEROAMERICAN WEBMINAR OF YOUNG RESEARCHERS IN SINGULARITY THEORY

Guillermo Peñafort Sanchís
Universitat de Valencia
(Valencia, Spain)

On k -folding map-germs and hidden symmetries of surfaces in the Euclidean 3-space I

Given any smooth Surface in \mathbb{R}^3 (or a complex Surface in \mathbb{C}^3) we associate, to any point on M , any integer $k \geq 1$ and any plane, a holomorphic map-germ of the form $F^k(x,y) = (x, y^k, f(x,y))$. This kind of map-germs are called k -folding map germs. In these two talks we describe the interplay between the topology of k -folding map germs and the extrinsic differential geometry of M .

On the first session, we introduce topological invariants that control the topological triviality of families of map-germs, and show how they are computed for k -folding mappings.

Organizado por el Instituto de Matemática Interdisciplinar (IMI), Patricio Almirón, Pablo Portilla Cuadrado y Juan Viu-Sos

Date: May 26th, 2021 Time: 17:00 (GMT +2)
Place: Online (Google Meet)

To attend send an e-mail to iberosing@ucm.es
More info on: <https://iberosing.github.io/>

3) Nuevas publicaciones

M. Negreanu, A. M. Vargas. Continuous and discrete periodic asymptotic behavior of solutions to a competitive chemotaxis PDEs system. *Communications in Nonlinear Science and Numerical Simulation*. 2021, 95, Article number 105592. <https://doi.org/10.1016/j.cnsns.2020.105592>

4) Otros eventos previstos

Seminario: Iberoamerican webinar of young researchers in singularity theory

Title: On k -folding map-germs and hidden symmetries of surfaces in the Euclidean 3-space II

Speaker: Farid Tari (ICMC-USP, São Carlos, Brazil)

Days: June 2nd, 2021

Hour: 17:00 (GMT +2)

Place: [Online \(Google Meet\)](#)

Organized by: Instituto de Matemática Interdisciplinar (IMI), Patricio Almirón, Pablo Portilla Cuadrado y Juan Viu-Sos

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IBEROAMERICAN WEBMINAR OF YOUNG RESEARCHERS IN SINGULARITY THEORY

Farid Tari
ICMC-USP
(São Carlos, Brazil)

On k -folding map-germs and hidden symmetries of surfaces in the Euclidean 3-space II

Given any smooth Surface in \mathbb{R}^3 (or a complex Surface in \mathbb{C}^3) we associate, to any point on M , any integer $k \geq 1$ and any plane, a holomorphic map-germ of the form $F^k(x,y) = (x, y^k, f(x,y))$. This kind of map-germs are called k -folding map germs. In these two talks we describe the interplay between the topology of k -folding map germs and the extrinsic differential geometry of M .

On the second session, we introduce the topological classification of k -folding map germs exhibited by generic surfaces, and show how their occurrence relates to old and new robust features of M .

Organizado por el Instituto de Matemática Interdisciplinar (IMI), Patricio Almirón, Pablo Portilla Cuadrado y Juan Viu-Sos

Date: June 2nd, 2021 Time: 17:00 (GMT +2)
Place: Online (Google Meet)

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XV Modelling Week

From 7/June/2021 to 11/June/2021

More details will be given as soon as possible

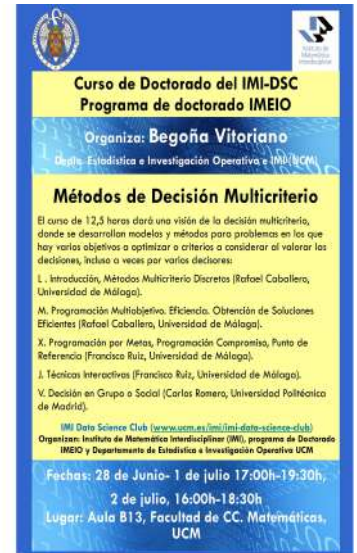
Curso de doctorado del programa de doctorado IMEIO

Título: Métodos de Decisión Multicriterio

Día y hora: 28 de Junio- 1 de julio 17:00h-19:30h y 2 de julio, 16:00h-18:30h

Lugar: Aula B13, Facultad de CC. Matemáticas, UCM

Organizado por: Instituto de Matemática Interdisciplinar (IMI), programa de Doctorado IMEIO y Departamento de Estadística e Investigación Operativa UCM



Conference

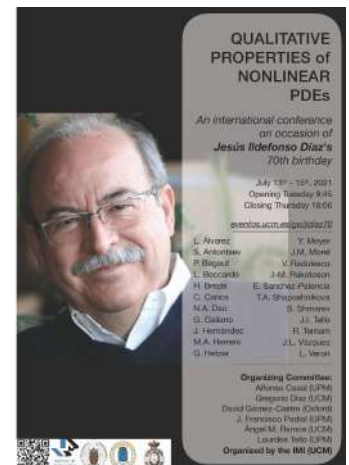
Title: Qualitative properties of nonlinear PDEs. An international conference on occasion of J.I. Díaz's 70th birthday

Days: July 13, 14 and 15th, 2021

Place: Online

Organized by: Interdisciplinary Mathematics Institute (IMI)

Web: <http://eventos.ucm.es/go/JIDiaz70>



IV Concurso de Modelización Matemática del IMI (CMM-IMI 2021)

From 30/September/2021 to 04/October/2021

More details will be given as soon as possible

Curso de Doctorado

Estadística Bayesiana: Historia y Fundamentos, Desarrollos Recientes en Análisis de Referencia y Aplicaciones con R.

From October to December, 2021

More details will be given as soon as possible

Instituto de Matemática Interdisciplinar
Universidad Complutense de Madrid
Plaza de Ciencias 3, 28040, Madrid
<https://www.ucm.es/imi>

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