

Cursos
de verano
Santander
23

17 a 21
de julio

Universidad
Internacional
Menéndez Pelayo

UIMP

ESCUELA

XXII ESCUELA DE
MATEMÁTICAS
"LLUIS SANTALÓ"

Linear and
non-linear
analysis
in Banach
spaces

Ciencia
y Tecnología

Horario y dirección de contacto

Mañana de L a V: 9.00 a 14.00 h

Santander

Campus de Las Llamas
Avda. de los Castros, 42
39005 Santander
Tlf.: 942 29 87 00

Madrid

Calle Isaac Peral, 23
28040 Madrid
Tlf.: 91 592 06 31 / 33

A partir del 19 de junio

Mañana de L a V: 9.00 a 14.00 h
Tarde de L a J: 15.30 a 18.00 h

Santander

Palacio de la Magdalena
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Patrocinio



FUNDACIÓN
RAMÓN ARECES

Este curso es susceptible de ser reconocido como formación permanente del profesorado para el personal docente de los centros que imparten las enseñanzas reguladas en la Ley Orgánica 2/2006, de Educación, en base al artículo 21 y 29 de la Orden EDU/2886/2011, de 20 de octubre, por la que se regula la convocatoria, reconocimiento, certificación y registro de las actividades de formación permanente del profesorado.

Código 65ek - ETCS: 2,5

Director

Sheldon Gil Dantas
Profesor de Análisis Matemático
Universidad de Valencia

Secretaría

Luis Carlos García Lirola
Departamento de Matemáticas
Universidad de Zaragoza

The School is especially (but not exclusively!) aimed at young researchers and PhD students in Mathematical Analysis. The school will focus on the interplay between linear and non-linear properties of Banach spaces. This includes several trending research topics involving a large number of techniques: geometry of normed spaces, embedding of metric spaces (in particular, graphs), geometric group theory, optimal transport, operator theory and topology. The school will include four mini-courses on the following topics:

- Verónica Dimant (Universidad de San Andrés, Argentina). Linearization of non-linear functions
- Gilles Lancien (Université Franche Comté, France). Non linear geometry and asymptotic properties of Banach spaces
- Abraham Rueda Zoca (Universidad de Granada, Spain). Geometry of tensor products and bilinear mappings in Banach spaces
- Richard Smith (University College Dublin, Ireland) Lipschitz-free spaces and representing measures

The courses will be complemented by contributed talks by junior and senior researchers

Apertura matrícula

Desde el día 17 de abril de 2023
(plazas limitadas)

Solicitud
online





Monday 17

- 09.30 h Opening
- 10.00 h Linearization of non-linear functions I
Verónica Dimant
Universidad de San Andrés, Argentina
- 11.30 h Lipschitz-free spaces and representing measures I
Richard Smith
University College Dublin, Ireland
- 12.30 h Geometry of tensor products and bilinear mappings in Banach spaces I
Abraham Rueda Zoca
Universidad de Granada, Spain
- 15.30 h Norming tales
Tomaso Russo
Universität Innsbruck, Austria
- 16.20 h The Schur and Radon-Nikodým properties for Lipschitz-free spaces
Ramón J. Aliaga
Universitat Politècnica de València, Spain
- 17.05 h Short talk. Symplectic structures on Rochberg spaces
Wilson Cuellar
Universidade de São Paulo, Brasil



Tuesday 18

- 09.30 h Linearization of non-linear functions II
Verónica Dimant
- 10.30 h Non linear geometry and asymptotic properties of Banach spaces I
Gilles Lancien
Université de Franche-Comté, France
- 12.00 h Lipschitz-free spaces and representing measures II
Richard Smith
- 13.00 h Convergence of remote projections onto convex sets
Eva Kopecká
Universität Innsbruck, Austria
- 15.30 h On slicely countably determined sets in Banach spaces
Johann Langemets
Tartu University, Estonia
- 16.20 h A nonlinear Enflo example
Rubén Medina
Universidad de Granada, Spain

- 16.45 h On the numerical index of the real twodimensional L_p space
Alicia Quero
Universidad de Granada, Spain
- 17.10 h On the numerical index of 2-dimensional Lipschitz-free spaces
Christian Cobollo
Universitat Politècnica de València, Spain



Wednesday 19

- 09.30 h Geometry of tensor products and bilinear mappings in Banach spaces II
Abraham Rueda Zoca
- 10.30 h Lipschitz-free spaces and representing measures III
Richard Smith
- 12.00 h Generic Banach spaces
Michal Doucha
Czech Academy of Sciences, Czech Republic
- 12.50 h On the weak topology in Lipschitz free spaces
Colin Petitjean
Université Gustave Eiffel, France
- 15.30 h From property (beta) of Rolewicz to metric geometry
Denka Kutzarova
University of Illinois at Urbana-Champaign, USA
- 16.10 h Some recent progresses in renorming theory
Jacopo Somaglia
Politecnico di Milano, Italy
- 16.35 h Unconditional bases and Daugavet renormings
Triinu Veeorg
University of Tartu, Estonia
- 17.00 h Different convexity concepts in norms of Banach spaces
Andrés Quilis
Universitat Politècnica de València, Spain /Czech Technical University in Prague, Czechia



Thursday 20

- 09.30 h Non linear geometry and asymptotic properties of Banach spaces II
Gilles Lancien
- 10.30 h Geometry of tensor products and bilinear mappings in Banach spaces III
Abraham Rueda Zoca

- 12.00 h Linearization of non-linear functions III
Verónica Dimant
- 13.00 h On isometry groups on the space of converging sequences
Valentin Ferenczi
Universidade de São Paulo, Brasil
- 15.30 h Metric embeddings of Laakso graphs into Banach spaces
Stephen Dilworth
University of South Carolina, USA
- 16.10 h Distances between $C(K)$ spaces
Jakup Rodnoš
Charles University Prague, Czechia
- 16.35 h Continuous operators from spaces of Lipschitz functions
Damian Sobota
Kurt Gödel Research Center, University of Vienna, Austria
- 17.00 h Riemann Integration and Asymptotic Structure of Banach Spaces
Harrison Gaebler
University of North Texas, USA



Friday 21

- 09.30 h Non linear geometry and asymptotic properties of Banach spaces III
Gilles Lancien
- 10.30 h Separable Faces and Renormings of non-separable Banach Spaces
José Orihuela
Universidad de Murcia, Spain
- 11.40 h On the complemented subspace problem
Gonzalo Martínez Cervantes
Universidad de Alicante, Spain
- 12.20 h Banach spaces and Banach lattices
Antonio Avilés
Universidad de Murcia, Spain
- 13.00 h Dvoretzky-type theorem for locally finite subsets of a Hilbert space
Mikhail Ostrovskii
St. John's University, USA



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