

II Joint Conference of the Belgian, Royal Spanish and Luxembourg Mathematical Societies
Logroño, June 6–8, 2016

Session 1: Functional analysis

Lugar: Salón de actos

Monday June 6, 2016

Chairman: Jose Bonet

1. 15:00, Jean Schmets
My friend Manuel Valdivia

Chairman: Domingo García

2. 15:30, Juan Benigno Seoane Sepúlveda
Isomorphic copies of ℓ_1 for m -homogeneous non-analytic Bohnenblust-Hille polynomials
3. 16:00, Manuel González
Banach spaces admitting many complemented subspaces

Chairman: Françoise Bastin

4. 17:00, Quentin Menet
Periodic points at the service of hypercyclicity
5. 17:30, Karl Grosse Erdmann
On upper frequent hypercyclicity
6. 18:00, Alfred Peris
Set-valued chaos in linear dynamics

Tuesday June 7, 2016

Chairman: Catherine Finet

1. 15:00, Céline Esser
Multifractal analysis of the divergence of wavelet series
2. 15:30, Guillermo P. Curbera
Weak Banach-Saks and Radon-Nykodym properties in function spaces
3. 16:00, José Ángel Peláez
Integral operators mapping into H^∞

Chairman: Jasson Vindas

4. 17:00, Antonio M. Peralta
Additivity of 2-local and weak 2-local maps on C^ -algebras*

5. 17:30, Andreas Debrouwere

On the non triviality of certain spaces of analytic functions, ultrahyperfunctions and hyperfunctions of fast growth

Chairman: Jean Schmets

6. 18:00, Luis Bernal

Maximal divergent Fourier series in the disc algebra

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Session 2: Model theory and applications

Lugar: Laboratorio 30

Monday June 6, 2016

Chairman: Françoise Point

1. 15:00, Enrique Casanovas
On dependently embedded sets
2. 16:00, Nathanael Mariaule
Expansion of valued fields by multiplicative subgroup
3. 17:00, Andreas Weiermann
On generalized Goodstein sequences
4. 18:00, Pablo Cubides
 P -minimality and p -adic integration

Tuesday June 7, 2016

Chairman: Elias Baro

1. 15:00, Tamara Servi
Oscillatory integrals and o -minimality
2. 16:00, Luis Felipe Tabera
Geometric constructions as a transfer tool in Tropical Geometry
3. 17:00, Amador Martín-Pizarro
A simple remark
4. 18:00, Daniel Palacín
Superrosy division rings

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Session 3: Algebra and Number Theory

Lugar: Laboratorio 31

Monday June 6, 2016

Chairman: Stefaan Caenepeel

1. 15:00, Iván Shestakov
Nommatrix varieties for some classes of non associative algebras
2. 15:30, Mitchell Buckley
On bialgebroids and warpings
3. 16:00, Esperanza López
Weak wreath products and weak quantum duplicates
4. 17:00, Mauricio Caicedo
On the Prime Graph Question for symmetric groups
5. 17:30, Diego Aranda-Orna
Gradings on exceptional simple Jordan systems and structurable algebras

Tuesday June 7, 2016

Chairman: Antonio Rojas

1. 15:00, Carolina Vallejo
The self-normalizing case of the McKay conjecture
2. 15:30, Ann Kiefer
Units in Integral Group Rings via Fundamental Domains and Hyperbolic Geometry
3. 16:00, Alexander D Rahm
Homological torsion originating from finite subgroups
4. 17:00, Santiago Molina
Darmon points on modular abelian varieties over totally real fields
5. 17:30, Jasper Van Hirtum
On the Distribution of Frobenius of Weight 2 Eigenforms with Quadratic Coefficient Field

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Session 4: Partial Differential Equations

Lugar: Laboratorio 32

Monday June 6, 2016

Chairman: Denis Bonheure

1. 15:00, Antonio Suárez
Some problems arising in population dynamics with non-linear diffusion
2. 15:30, Manon Nys
On the eigenvalues of Aharonov-Bohm operators with varying poles
3. 16:00, Rafael López-Soriano
Liouville type equations with sign-change data

Tuesday June 7, 2016

Chairman: Salvador Villegas

1. 15:00, Jean-Baptiste Casteras
Standing wave solutions for a nonlinear Schrödinger equation with mixed dispersion
2. 15:30, José Carmona
Nonlinear elliptic singular systems with quadratic gradient lower order terms
3. 16:00, Alberto Saldaña
On the extended Allen-Cahn equation

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Session 5: Algebraic Geometry and Singularities

Lugar: Laboratorio *Miriam Andrés*

Monday June 6, 2016

1. 15:00, Mathias Schulze
Duality on value semigroups
2. 15:30, María Alberich
Constancy regions of mixed multiplier ideals in rational surface singularities
3. 16:00, Wouter Castryck
Geometric invariants encoded in the Newton polygon
4. 17:00, Roi Docampo
The arc space of the Grassmannian
5. 17:30, Yongqiang Liu
Nearby cycles and Alexander modules of hypersurface complements
6. 18:00, Julio José Moyano
On the estimation of numerical invariants of a graded module in terms of its Hilbert series

Tuesday June 7, 2016

1. 15:00, Javier Fernández de Bobadilla
2. 15:30, Elisa Postinghel
Positivity of divisors on blown-up projective spaces
3. 16:00, Jorge Martín-Morales
On the 2–Jordan blocks for the eigenvalue $\lambda = 1$ of isolated singularities
4. 17:00, Botong Wang
A family of symplectic-complex Calabi-Yau manifolds that are nonKähler
5. 17:30, Ana Belén de Felipe
Topology of spaces of valuations and geometry of singularities
6. 18:00, Thomas Cauwbergs
Splicing and zeta functions

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Session 6: Dynamical Systems and ODE

Lugar: Aula 33

Monday June 6, 2016

Chairman: Freddy Dumortier

1. 15:00, Peter De Maesschalck
Slow-fast Bogdanov-Takens bifurcations in an application
2. 15:30, Roberto Barrio
Coexistence of hyperchaos and chaos: a Computer-assisted proof
3. 16:00, Karel Kenens
Summability of canard-heteroclinic saddle connections

Chairman: Santiago Ibáñez

4. 17:00, Enrique Vigil
Expanding Baker Maps: A class of piecewise linear 2-D maps
5. 17:30, Jeroen Wynen
Normal forms near a symmetric planar saddle connection
6. 18:00, Timoteo Carletti
A journey in the zoo of Turing patterns

Tuesday June 7, 2016

Chairman: Jesús Palacián

1. 15:00, Miguel Marañón
Exterior discrete semi-flows and applications
2. 15:30, David Farrelly
The role of chaos in the formation of binary objects in the Kuiper-belt
3. 16:00, Mercè Ollé
The parabolic RTBP. Interchange of mass after a close encounter between galaxies

Chairman: Peter de Maeschalck

4. 17:00, Daniel Casanova
Space Debris in the Geostationary region as a Dynamical System

5. 17:30, Ana M. Sanz
Persistence of non-autonomous Nicholson's systems
6. 18:00, Carmen Núñez
Dissipativity in nonautonomous linear-quadratic control processes

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Session 7: Probability and Statistics

Lugar: Aula 34

Monday June 6, 2016

Chairman: Alfonso Gordaliza

1. 15:00, Irène Gijbels
Nonparametric conditional copula estimation and applications
2. 15:30, Martin Schumann
Integrated likelihood based inference for nonlinear panel data models with unobserved effects
3. 16:00, Arthur Pewsey
SAS distributions

Chairman: Arthur Pewsey

4. 17:00, Aritz Adin
Spatio-temporal P-splines models in Bayesian disease mapping
5. 17:30, Christian Döbler
Recent developments in Stein's method
6. 18:00, Beatriz Sinova
An applied approach to robust statistical analysis of the location of interval-valued data

Tuesday June 7, 2016

Chairman: Yvik Swan

1. 15:00, Els Goetghebeur
Targeted penalized regression for cost effective causal effect estimation
2. 15:30, Maurizia Rossi
Non-Universality of Nodal Length Distribution for Arithmetic Random Waves
3. 16:00, Cristina Rueda
Circular Isotonic Regression with Applications to cell-cycle Biology

Chairman: Alfonso Gordaliza

4. 17:00, Anna Kiriliouk
A continuous updating weighted least squares estimator of tail dependence in high dimensions

5. 17:30, James Thompson
Heat kernel formulae and the Brownian bridge to a submanifold
6. 18:00, Yvik Swan
Stein's method and the influence of the prior in Bayesian statistics

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Session 8: Orthogonal polynomials and special functions

Lugar: Aula 35

Monday June 6, 2016

Chairman: Bernardo de la Calle

1. 15:00, Ana Mendes
Dynamics and interpretation of some integrable systems via matrix orthogonal polynomials
2. 15:30, Lidia Fernández
An analogue of Krall orthogonal polynomials on the simplex
3. 16:00, Manuel Bello
Critical points of polynomials

Chairman: Manuel Bello

4. 17:00, Ruymán Cruz
Positive quadrature formulas on the unit circle with prescribed nodes. A new approach
5. 17:30, Dries Stivigny
6. 18:00, Alfredo Deaño
Orthogonal polynomials, partition functions and asymptotics

Tuesday June 7, 2016

Chairman: Ruymán Cruz Barroso

1. 15:00, Alberto Arenas
Weighted inequalities for the Riesz potential on the sphere
2. 15:30, Edgar Labarga
A Hardy inequality for ultraspherical expansions with an application to the sphere
3. 16:00, Antonia Delgado
Asymptotics of Sobolev Orthogonal polynomials on the unit ball

Chairman: Alfredo Deaño

4. 17:00, Juan Carlos García
Christoffel transformations for matrix orthogonal polynomials in the real line

5. 17:30, Hendrik De Bie
A higher rank generalization of the Bannai-Ito algebra
6. 18:00, María José Cantero

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Session 9: Combinatorial and computational geometry

Lugar: Aula 36

Monday June 6, 2016

Chairman: David Orden

1. 15:00, María Ángeles Hernández
Extensions of Minkowski's theorem on successive minima
2. 15:30, Mónica Blanco
The finiteness threshold width of lattice polytopes
3. 16:00, Carlos Seara
Rectilinear Convex Hull of a Set of Points in 2D

Chairman: Philippe Cara

4. 17:00, Aida Abiad
Switched symplectic graphs and their 2-ranks
5. 17:30, John Bamberg
Symmetric generalised polygons

Tuesday June 7, 2016

Chairman: Jan de Beule

1. 15:00, Nicola Durante
Infinite families of non linear MRD codes
2. 15:30, Maarten De Boeck
Cameron-Liebler sets of generators in polar spaces
3. 16:00, Ferdinand Ihringer
The Manickam-Miklos-Singhi Conjecture in Partial Linear Spaces

Chairman: David Orden

4. 17:00, Clemens Huemer
Production matrices for geometric graphs
5. 17:30, María Luz Puertas
Domination via $(\min, +)$ algebra
6. 18:00, Alberto Márquez

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Session 10: Geometric Analysis, Differential Geometry and Quantization

Lugar: Aula 37

Monday June 6, 2016

Chairman: Simone Gutt

1. 15:00, José M. Senovilla
Kerr-Schild vector fields
2. 15:30, Antonio Martínez
The space of oriented spheres as a bridge between \mathbb{H}^3 and \mathbb{R}^3
3. 16:00, Ozgur Ceyhan
Feynman Integrals, Associated Arrangements and Their Motives
4. 17:00, Ana Lerma
Lagrangian mean curvature flow of Hopf tori
5. 17:30, Francisco Torralbo
Constant mean curvature surfaces in Riemannian product spaces
6. 18:00, Laurent La Fuente Gravy
Moment maps and closed Fedosov's star products

Tuesday June 7, 2016

Chairman: Martin Schlichenmaier

1. 15:00, Michael Khanevsky
Hofer's geometry of the space of curves
2. 15:30, José Carlos Díaz
Isoparametric hypersurfaces in complex hyperbolic spaces
3. 16:00, Florian Schaetz
Pre-symplectic structures and related deformation problems
4. 17:00, Vladimir Salnikov
Graded geometry in physics and mechanics
5. 17:30, Pierre Bielavsky