

PARALLEL SESSIONS

MONDAY MORNING

FACULTAD-SALÓN DE ACTOS APPLIED MATHEMATICS

		
11:30-12:00	Manuel Gonzalo Carvajal	Robust probability support vector machines with pinball loss
12:00-12:30	Mencía Reborido Fuentes	A Queue Theory approach for modeling computer memory system performance
12:30-13:00	Miguel Navarro Castro	Measuring spatial interactions during stem cell differentiation with TDA techniques
13:00-13:30	Nuria Richer Gusano	Online Follow-The-Leader (FTL) Model Selection with Conformal Prediction

FACULTAD-SALA DE GRADOS STATISTICS

		
11:30-12:00	Carlos Cañada Moreno	The Galton-Watson Process: Theory and Applications
12:00-12:30	Emmanuel Moreno Mejía	Modelling and maintenance planning for repairable systems under multiple degradation processes incorporating imperfect repairs
12:30-13:00	Jaime Díaz-Trechuelo Sánchez	Balancing Sparsity and Subgroup Fairness in High-Dimensional Regression: The Cost-Sensitive Constrained Elastic Net
13:00-13:30	Lucía Trapote Reglero	Extending TCLUSST to higher dimensions

PARALLEL SESSIONS

MONDAY MORNING

IMUS-SALÓN DE ACTOS FUNCTIONAL ANALYSIS

		
11:30-12:00	Miguel Ángel Ruiz Risueño	Quasicomplemented subspaces in Banach spaces
12:00-12:30	Giulia Cardoso Fantato	Interpolation of Banach spaces and uniform homeomorphism of spheres
12:30-13:00	Esteban Martínez Vañó	Projective characterizations of Lindenstrauss and Gurari spaces
13:00-13:30	Juan Guerrero Viu	A brief introduction to APEPs

IMUS-SEMINARIO II ALGEBRA

		
11:30-12:00	Jaime Benabent Guerrero	All Solid Rings
12:00-12:30	Diego Alba Alonso	The hidden geometry in the system $Ax = b$
12:30-13:00	Ignacio Duro Caballero	Understanding the Pedagogical Content Knowledge behind the elaboration of an advanced algebra textbook
13:00-13:30	Dennis Edgardo Quintano Villanueva	A Control Theory for Monomial Dynamical Systems over Finite Fields

PARALLEL SESSIONS

MONDAY AFTERNOON

FACULTAD-SALÓN DE ACTOS APPLIED MATHEMATICS

		
15:15-15:45	Cristina Rodríguez Perales	Difference equation for quasi-orthogonal polynomials related to a general operator
15:45-16:15	Guillermo García Sáez	A general theory of nonlocal elasticity based on nonlocal gradients
16:15-16:45	Paula Vázquez García	The Power Series Method and Its Implementation Using Automatic Differentiation

FACULTAD-SALA DE GRADOS OPERATIONS RESEARCH AND OPTIMISATION

		
15:15-15:45	Cristian Pérez-Corral	A centrality-based GRASP to the Perfect Awareness Problem
15:45-16:15	Juan Francisco Ocaña Rivas	Mathematical optimization models for constructing multiperiod self-amplifying subhypernetworks
16:15-16:45	Lidia Cruz Pérez	The total distance dominating set problem

PARALLEL SESSIONS

MONDAY AFTERNOON

IMUS-SEMINARIO II ALGEBRAIC GEOMETRY AND NUMBER THEORY

		
15:15-15:45	Francesc Pedret Martínez	Counting Points on Genus 3 Superelliptic Curves over Finite Fields
15:45-16:15	Adrian Macías Quintero	Exact Autonomous Identities for the Sum of Primes and the Prime-Counting Function
16:15-16:45	Aarón Ocampo Amaya	Polynomial bases and homomorphisms on representations of the symmetric group

IMUS-SALÓN DE ACTOS ANALYSIS

		
15:15-15:45	Jesús Illescas Fiorito	Phase retrieval by example
15:45-16:15	Mario Guillén Sánchez	Unique Preduals in Banach Spaces
16:15-16:45	Miguel Barea Fernández	Characterizing the boundedness of the segment multiplier in rearrangement-invariant spaces

PARALLEL SESSIONS

TUESDAY MORNING		
FACULTAD-SALÓN DE ACTOS APPLIED MATHEMATICS		
		
11:00-11:30	Amaia Gastearena Irigoyen	When Mathematics Meets Emotions: A Fuzzy Logic approach to Human Affective Processing
11:30-12:00	Eva Garijo Alcalde	Mathematical modeling and numerical simulation of batteries
12:00-12:30	Jorge Rodríguez Pérez	Dynamic and numerical methods of average theory with application in oscillator problems
12:30-13:00	Pietro Nardelli	Semi-Lagrangian Approach to Kinetic Models in Plasma Simulations
FACULTAD-SALA DE GRADOS PDEs AND DYNAMICAL SYSTEMS		
		
11:00-11:30	Francisco Javier Larcada	Perturbation of linear non-autonomous parabolic problems in scales of Banach spaces
11:30-12:00	Ana Casado Sánchez	Some nonlocal models in population dynamics
12:00-12:30	Paula Martínez Morais	Dynamic methods in non-autonomous differential equations. Stability, bifurcation, and critical transitions
12:30-13:00	Miguel Trujillo Alés	Control theory in finite-dimensional spaces

PARALLEL SESSIONS

TUESDAY MORNING		
IMUS-SALÓN DE ACTOS TOPOLOGY		
		
11:00-11:30	Cristina Gómez	Additivity of the crossing number under the connected sum of knots
11:30-12:00	Ángel Méndez Vázquez	Homotopic Distance: New (Co)homological and Computational Invariants
12:00-12:30	Manuel Garcia García	Topology of Complex Polynomials
12:30-13:00	Juan Francisco Cuevas	Function approximation with fractal structures
IMUS-SEMINARIO II GROUPS		
		
11:00-11:30	Daniel Gómez Gutiérrez	Cohomology basis graphs on right-angled Artin groups
11:30-12:00	Pablo Regalado García	Spherical-type Artin-Tits groups: generalizing curves in the n -punctured disc
12:00-12:30	Marcos Escartín Ferrer	Algebraic fibring of the pure symmetric automorphism group of a RAAG
12:30-13:00	Clara Skowronek Santos	Commensurators and Grigorchuk groups

PARALLEL SESSIONS

TUESDAY AFTERNOON		
IMUS-SEMINARIO II ALGEBRA		
		
15:00-15:30	Shuo Yang	Tobit filtering for nonlinear networked systems: A symmetric encryption framework
15:30-16:00	Raúl Ruiz Mora	Morphisms of rewriting systems
16:00-16:30		1
FACULTAD-SALA DE GRADOS DIFFERENTIAL EQUATIONS AND DISCRETE SYSTEMS		
		
15:00-15:30	Laura María Fernández Pardo	Solutions to Nonlinear Differential Systems via Fixed Point Theory
15:30-16:00	María Pérez Armesto	Periodic solutions of singular differential equations
16:00-16:30	Mario Jacobo Motiño Palma	Using the Frobenius Number to Determine the Transient of non-linear Boolean dynamical systems

PARALLEL SESSIONS

TUESDAY AFTERNOON		
IMUS-SALÓN DE ACTOS ANALYSIS		
		
15:00-15:30	Isabel María Moreno Cuadrado	Bohnenblust–Hille inequality and applications in learning theory
15:30-16:00	Miguel Rodríguez Alegre	Carleson's Theorem
16:00-16:30		
FACULTAD-SALÓN DE ACTOS APPLIED MATHEMATICS		
		
15:00-15:30	Alonso Díaz Uña	Spinors, Möbius maps and spheres close to lightspeed
15:30-16:00	Ángel Pita da Veiga Ramonde	Discontinuous Galerkin approach for isogeometric methods
16:00-16:30	Aurora Sánchez Martín-Orozco	Lipschitz Extensions in Fuzzy Metric Spaces: A Generalization of the McShane–Whitney Theorem

PARALLEL SESSIONS

WEDNESDAY MORNING		
FACULTAD-SALA DE GRADOS PDEs		
		
11:30-12:00	Fernando Carreño Navas	Communication without Distortion: Soliton Propagation in Nonlinear Media
12:00-12:30	Miguel Martínez González	A Brief Introduction to Computer-Assisted Techniques in Analysis
12:30-13:00	Paula Luna Velasco	Global Regularity for the 2D Navier–Stokes Free Boundary Problem
13:00-13:30	Sergio Junquera Pérez	The phenomenon of quenching in a system with non-local diffusion
FACULTAD-SALÓN DE ACTOS CONVEX GEOMETRY		
		
11:30-12:00	Jorge Santiago Ibáñez Marcos	Revisiting Hadwiger's Theorem: A more accessible proof
12:00-12:30	Julia Sánchez-Loscertales	A discrete approach to functional Zhang's inequality
12:30-13:00	Matheus Resende Guedes	Some topics on the L_p Brunn Minkowski Theory
13:00-13:30	Beatriz Marín Gimeno	Loomis-Whitney type inequalities

PARALLEL SESSIONS

WEDNESDAY MORNING		
IMUS-SALÓN DE ACTOS PROOF THEORY		
		
11:30-12:00	Federico Cabrera Linares	Formal Proof through Type Theory
12:00-12:30	Borja Sierra Miranda	Proof Theory for Provability Logics: A Uniform Approach
12:30-13:00	Javier Villar Ortega	Proof Mechanization: topological and algebraic methods towards the automatic development of mathematical proofs
13:00-13:30	Antón Fernández Dejean	Measuring the strength of the theory ECA_0 via the Π_2^1 norm
IMUS-SEMINARIO II GROUPS		
		
11:30-12:00	Vicent Miralles Llach	Idempotent elements of the group algebra
12:00-12:30	Pedro Mayorga Pedraza	Automorphisms of Evolution Algebras and their Permutation Representations
12:30-13:00	Luis Pablo Colmenar López	From Sylow to Hall: Extending Fusion Theory and Exploring Subnormalizers
13:00-13:30	Marina Polo Rodríguez	G-kernels on Operator Algebras

PARALLEL SESSIONS

WEDNESDAY AFTERNOON		
FACULTAD-SALÓN DE ACTOS MATHEMATICAL FOUNDATIONS		
		
15:15-15:45	Lucía Castán Anglada	Integration methods in Banach spaces
15:45-16:15	Marc Ventura González	An Introduction to Nonstandard Analysis
16:15-16:45	Lorenzo María López Domene	Dirichlet's Theorem: Primes in arithmetic progressions
FACULTAD-SALA DE GRADOS TOPOLOGY		
		
15:15-15:45	Javier Herrero Cañedo	Tensor-Triangular Geometry
15:45-16:15	Alejandro Moreno Becerra	The fixed point index sequence and Shub's conjecture
16:15-16:45	Sahil Intiyaz	The Bundle-Theoretic Structure and Computational Modeling of Quantum Contextuality

PARALLEL SESSIONS

WEDNESDAY AFTERNOON		
IMUS-SALÓN DE ACTOS ALGEBRAIC GEOMETRY AND NUMBER THEORY		
		
15:15-15:45	Javier Polo Noche	Eisenstein degeneration of Beilinson–Kato classes
15:45-16:15	Ángel Molina Navarro	The (classical) Riemann–Hilbert correspondence
16:15-16:45	Alfonso Márquez Martínez	Microlocalization and derived categories
IMUS-SEMINARIO II DIFFERENTIAL GEOMETRY		
		
15:15-15:45	Hugo Labella López	Rational homotopy theory
15:45-16:15	Pedro Fidalgo Martínez	Orbifolds and symmetry groups
16:15-16:45	Víctor Carrasco Yllanes	Relation between the Riemann and Riemannian surfaces. The Mapping Theorem and the Beltrami equation

PARALLEL SESSIONS

THURSDAY MORNING		
FACULTAD-SALÓN DE ACTOS ALGEBRA		
		
11:30-12:00	Jesús Baena Gómez	A method to associate non-associative algebras with combinatorial structures
12:00-12:30	Carmen Gutiérrez Silva	Novikov algebras and combinatorial structures
FACULTAD-SALA DE GRADOS ALGEBRAIC GEOMETRY AND NUMBER THEORY		
		
11:30-12:00	José Molina Gil	The Structure of Symmetric Polynomials
12:00-12:30	Carlos García Ordóñez	The Mordell-Weil Theorem
12:30-13:00	Jorge Casanova Moya	Wedderburn-Artin Theory

PARALLEL SESSIONS

THURSDAY MORNING		
IMUS-SEMINARIO II OPERATOR THEORY		
		
11:30-12:00	Franco Salinas Pytel	Operator algebras and modular entropy in holography
12:00-12:30	Jaime Arto Alseda	Spectral properties of Hausdorff operators on Fock spaces
12:30-13:00		
IMUS-SALÓN DE ACTOS TOPOLOGY		
		
11:30-12:00	Inés Mora Caro	Tournaments and finite spaces
12:00-12:30	Marco Delgado Garrido	Additive partial matchings and resolutions of persistent homology modules
12:30-13:00	Luis Esquivias Quintero	Non-intersecting paths and the determinant of the distance matrix of a tree