

DEPARTAMENTO DE
MATEMATICAS

DEPARTAMENTO DE MATEMATICAS

Actividades de investigación

Tesis Doctorales

- Alliance polynomial and hyperbolicity in regular graphs
Autores: TORRES, Y.
Director/Codirectores: RODRIGUEZ, J. M.
Año: 2014
- Generic Scale Invariance in continuum models of two-dimensional surfaces
Autores: VIVO, E.
Director/Codirectores: CUERNO, R.; NICOLI, M.
Año: 2014
- Gromov hyperbolicity in graphs
Autores: CARBALLOSA, W.
Director/Codirectores: RODRIGUEZ, J. M.
Año: 2014
- On some nonlocal elliptic problems
Autores: SÁNCHEZ, U.
Director/Codirectores: PABLO, A. D. ; COLORADO, E.
Año: 2014
- Systems of Markov type functions. Normality and convergence of Hermite-Padé approximants
Autores: MEDINA, S.
Director/Codirectores: LOPEZ-LAGOMASINO, G.
Año: 2014

Publicaciones y actividades de difusión de resultados

Publicaciones en revistas científicas nacionales

- IBORT, A. ; LINARES, P.; LLAVONA, J.G.
On the multilinear Hausdorff problem of moments, *Revista matemática Complutense*, Vol. 27, Núm. 1, 2014, pp. 213-224, ESPAÑA.

Publicaciones en revistas científicas internacionales

- ALVAREZ, P.; DU, Y.; PENG, R.
Qualitative analysis of a cooperative reaction-diffusion system in a spatiotemporally degenerate environment, *SIAM journal on mathematical analysis*, Vol. 46, Núm. 1, 2014, pp. 499-531, ESTADOS UNIDOS DE AMERICA.
- ANTONIONI, A.; SANCHEZ, A.; TOMASSINI, M.
Global Information and Mobility Support Coordination Among Humans, *Scientific reports*, Vol. 4, Núm. 6458, 2014, REINO UNIDO.

- APTEKAREV, A.; ARVESU, J.
Asymptotics for multiple Meixner polynomials, *Journal of Mathematical Analysis and Applications*, Vol. 411, Núm. 2, 2014, pp. 485-505, ESTADOS UNIDOS DE AMERICA.
- ARA, P.; LLEDÓ, F.
Amenable traces and Folner C*-algebras, *Expositiones mathematicae*, Vol. 32, Núm. 2, 2014, pp. 161-177, PAISES BAJOS.
- ASHEIM, A.; DEAÑO, A. ; HUYBRECHS, D.; WANG, H.
A Gaussian quadrature rule for oscillatory integrals on a bounded interval, *Discrete and continuous dynamical systems*, Vol. 34, Núm. 3, 2014, pp. 883-901, ESTADOS UNIDOS DE AMERICA.
- BAUTISTA, A. ; IBORT, A. ; LAFUENTE, J.
On the space of light rays of a spacetime and a reconstruction theorem by Low, *Classical and quantum gravity*, Vol. 31, Núm. 7 (075020), 2014, REINO UNIDO.
- BUENO, M.I.; TERAN, F.D.
Eigenvectors and minimal bases for some families of Fiedler-like linearizations, *Linear & multilinear algebra*, Vol. 62, Núm. 1, 2014, pp. 39-62, REINO UNIDO.
- CANTON, A.; GRANADOS, A.; PESTANA, D. ; RODRIGUEZ, J. M.
Gromov hyperbolicity of periodic planar graphs, *Acta Mathematica Sinica-English Series*, Vol. 30, Núm. 1, 2014, pp. 79-90, ALEMANIA.
- CARBALLOSA, W.; PORTILLA, A.; RODRIGUEZ, J. M.; SIGARRETA, J.M.
Planarity and Hyperbolicity in Graphs, *Graphs and Combinatorics*, 2014.
- CARBALLOSA, W.; RODRIGUEZ, J. M.; SIGARRETA, J.M.
Hyperbolicity in the corona and join of graphs, *Aequationes mathematicae*, 2014.
- CARBALLOSA, W.; RODRIGUEZ, J. M.; SIGARRETA, J.M.; TORRES, Y.
Computing the alliance polynomial of a graph, *ArXiv.org*, 2014, pp. 1-16, REINO UNIDO.
- CASTRO, M.; CUERNO, R.; GARCIA, M.M.; VAZQUEZ BURGOS, L.
Pattern-wavelength coarsening from topological dynamics in silicon nanofoams, *Physical review letters*, Vol. 112, Núm. 9, 2014, pp. 1-5, ESTADOS UNIDOS DE AMERICA.
- CIMINI, G.; SANCHEZ, A.
Learning dynamics explains human behaviour in Prisoner's Dilemma on networks, *Journal of the Royal Society interface*, Vol. 11, Núm. 94, 2014, REINO UNIDO.
- COLORADO, E.
Positive solutions to some systems of coupled nonlinear Schrödinger equations, *Nonlinear analysis, theory, methods and applications*, Vol. 110, 2014, pp. 104-112, REINO UNIDO.
- COLORADO, E.; PABLO, A. D. ; SANCHEZ, U.
Perturbations of a critical fractional equation, *Pacific Journal of Mathematics*, Vol. 271, Núm. 1, 2014, pp. 65-85, ESTADOS UNIDOS DE AMERICA.
- CONDON, M.; DEAÑO, A. ; GAO, J.; ISERLES, A.
Asymptotic solvers for second-order differential equation systems with multiple frequencies, *Calcolo*, Vol. 51, Núm. 1, 2014, pp. 109-139, ITALIA.

- DAILEY, M.; DOPICO, F. M.; YE, Q.
A New Perturbation Bound for the LDU Factorization of Diagonally Dominant Matrices, *SIAM journal on matrix analysis and applications*, Vol. 35, Núm. 3, 2014, pp. 904-930, ESTADOS UNIDOS DE AMERICA.
- DAILEY, M.; DOPICO, F. M.; YE, Q.
Relative perturbation theory for diagonally dominant matrices, *SIAM journal on matrix analysis and applications*, Vol. 35, Núm. 4, 2014, pp. 1303-1328, ESTADOS UNIDOS DE AMERICA.
- DE JESUS, M.N.; MARCELLAN, F.J.; PETRONILHO, J.; PINZON, N.C.
(M, N)-coherent pairs of order (m, k) and Sobolev orthogonal polynomials, *Journal of computational and applied mathematics*, Vol. 256, 2014, pp. 16-35, BÉLGICA.
- DEAÑO, A.
Large degree asymptotics of orthogonal polynomials with respect to an oscillatory weight on a bounded interval, *Journal of approximation theory*, Vol. 186, 2014, pp. 33-63, ESTADOS UNIDOS DE AMERICA.
- DEAÑO, A. ; KUIJLAARS, A.B.J.; ROMAN, P.
Asymptotic behavior and zero distribution of polynomials orthogonal with respect to Bessel functions, *ArXiv.org*, 2014, pp. 1-5, REINO UNIDO.
- DEREVYAGIN, M.; GARCIA, J.C.; MARCELLAN, F.J.
Multiple Geronimus transformations, *Linear algebra and its applications*, Vol. 454, 2014, pp. 158-183, ESTADOS UNIDOS DE AMERICA.
- DEREVYAGIN, M.; MARCELLAN, F.J.
A note on the Geronimus transformation and Sobolev orthogonal polynomials, *Numerical algorithms*, Vol. 67, Núm. 2, 2014, pp. 271-287, HOLANDA - PAISES BAJOS.
- DOMINICI, D.; MARCELLAN, F.J.
Discrete semiclassical orthogonal polynomials of class one, *Pacific Journal of Mathematics*, Vol. 268, Núm. 2, 2014, pp. 389-411, ESTADOS UNIDOS DE AMERICA.
- DYKES, L.; MARCELLAN, F.J.; REICHEL, L.
The structure of iterative methods for symmetric linear discrete ill-posed problems, *BIT Numerical Mathematics*, Vol. 54, Núm. 1, 2014, pp. 129-145, SUECIA.
- FERNANDEZ, C.; CATALAN, P.; MANRUBIA, S.; CUESTA, J. A.
toyLIFE: a computational framework to study the multi-level organisation of the genotype-phenotype map, *Scientific reports*, Vol. 4, 2014, REINO UNIDO.
- FERNANDEZ, C.; FERNANDEZ, C.; RODRIGUEZ, A.
Is malarial anaemia homologous to neocytolysis after altitude acclimatisation?, *International journal for parasitology* , Vol. 44, Núm. 1, 2014, pp. 19-22, REINO UNIDO.
- FLORES, J.; HERNANDEZ, F.L.; SPINU, E.; TRADACETE, P.; TROITSKY, V.G.
Disjointly homogeneous Banach lattices: Duality and complementation, *Journal of functional analysis* , Vol. 266, Núm. 9, 2014, pp. 5858-5885, BÉLGICA.
- GARCIA, A.G.; HERNANDEZ, M.A.; MUÑOZ, M. J.
The Kramer sampling theorem revisited, *Acta applicandae mathematicae*, Vol. 133, Núm. 1, 2014, pp. 87-111, HOLANDA - PAISES BAJOS.

- GARCIA-HERRANZ, M.; MORO, E.; CEBRIAN, M.; CHRISTAKIS, N.A.; FOWLER, J.H.
Using Friends as Sensors to Detect Global-Scale Contagious Outbreaks, *PloS one*, Vol. 9, Núm. 4(92413), 2014, ESTADOS UNIDOS DE AMERICA.
- GONZALEZ DE LA ALEJA, D.; , L.G.J.
Concentration through large advection, *Journal of differential equations*, Vol. 257, Núm. 9, 2014, pp. 3135-3164, HOLANDA - PAISES BAJOS.
- GONZALEZ DE LA ALEJA, D.; LÓPEZ, J.
Some paradoxical effects of the advection on a class of diffusive equations in ecology, *Discrete and continuous dynamical systems. Series B*, Vol. 19, Núm. 10, 2014, pp. 3031-3056, ESTADOS UNIDOS DE AMERICA.
- GRUJIC, J.; GRACIA, C.; MILINSKI, M.; SEMMANN, D.; TRAULSEN, A.; CUESTA, J. A. ; MORENO, Y.; SANCHEZ, A.
A comparative analysis of spatial Prisoner's Dilemma experiments: Conditional cooperation and payoff irrelevance, *Scientific reports*, Vol. 4, Núm. 4615, 2014, pp. 1-9, REINO UNIDO.
- GUTIERREZ, M.; GRACIA, C.; PERELLO, J.; MORENO, Y.; SANCHEZ, A.
Transition from reciprocal cooperation to persistent behaviour in social dilemmas at the end of adolescence, *Nature communications*, Vol. 5, Núm. 4362, 2014, REINO UNIDO.
- HSU, S.B.; LOPEZ-GOMEZ, J.; MEI, L.; MOLINA MEYER, M.
A nonlocal problem from conservation biology, *SIAM journal on mathematical analysis*, Vol. 46, Núm. 6, 2014, pp. 4035-4059, ESTADOS UNIDOS DE AMERICA.
- HUERTAS, E.J.; MARCELLAN, F.J.; PEREZ, M.F.; QUINTANA, Y.
Asymptotics for Laguerre-Sobolev type orthogonal polynomials modified within their oscillatory regime, *Applied Mathematics and Computation*, Vol. 236, 2014, pp. 260-272, HOLANDA - PAISES BAJOS.
- HUERTAS, E.J.; MARCELLAN, F.J.; PEREZ, M.F.; QUINTANA, Y.D.C.
A Cohen type inequality for Laguerre-Sobolev expansions with a mass point outside their oscillatory regime, *Turkish journal of mathematics*, Vol. 38, Núm. 6, 2014, pp. 994-1006, TURQUIA.
- HUERTAS, E.J.; MARCELLAN, F.J.; PIJEIRA, H.E.
An electrostatic model for zeros of perturbed Laguerre polynomials, *Proceedings of the american mathematical society*, Vol. 142, Núm. 5, 2014, pp. 1733-1747, ESTADOS UNIDOS DE AMERICA.
- IBORT, A. ; LLEDÓ, F.; PEREZ, J.M.
On Self-Adjoint Extensions and Symmetries in Quantum Mechanics, *Annales Henri Poincaré*, Núm. OCTUBRE, 2014.
- IBORT, A. ; MARMO, G.; PEREZ, J.M.
Boundary dynamics driven entanglement: Quantum control in its many facets is a key notion in quantum information technologies, *Europhysics News*, Vol. 45, Núm. 5-6, 2014, pp. 18-.
- IBORT, A. ; MARMO, G.; PEREZ, J.M.
Boundary dynamics driven entanglement, *Journal of physics. A, Mathematical and theoretical*, Vol. 47, Núm. 38, 2014, REINO UNIDO.
- LOPEZ, J.; MOLINA MEYER, M. ; TELLINI, A.
Intricate dynamics caused by facilitation in competitive environments within polluted habitat patches, *European journal of applied mathematics* , Vol. 25, Núm. 2, 2014, pp. 213-229, REINO UNIDO.

- LOPEZ, J.; RUIZ, C.; TRADACETE, P.
The convex hull of a Banach-Saks set, *Journal of functional analysis* , Vol. 266, Núm. 4, 2014, pp. 2251-2280, BÉLGICA.
- MANRUBIA, S.; CUESTA, J. A.
Evolution on neutral networks accelerates the ticking rate of the molecular clock, *Journal of the Royal Society interface*, Vol. 12, Núm. 102, 2014, pp. 20141010-20141010, REINO UNIDO.
- MARCELLAN, F.J.; PEREZ, M.F.; QUINTANA, Y.; URIELES, A.
Recurrence relations and outer relative asymptotics of orthogonal polynomials with respect to a discrete Sobolev type inner product, *Bulletin of mathematical sciences*, Vol. 4, Núm. 1, 2014, pp. 83-97, ALEMANIA.
- MARCELLAN, F.J.; PINZON, N.C.
(M, N) -Coherent pairs of linear functionals and Jacobi matrices, *Applied Mathematics and Computation*, Vol. 232, 2014, pp. 76-83, HOLANDA - PAISES BAJOS.
- MARCELLAN, F.J.; PINZON, N.C.
Generalized coherent pairs on the unit circle and Sobolev orthogonal polynomials, *Publications de l'institut mathematique-beograd*, Vol. 96, Núm. 110, 2014, pp. 193-210.
- MARCELLAN, F.J.; RANGA, A.S.
Sieved para-orthogonal polynomials on the unit circle, *Applied Mathematics and Computation*, Vol. 244, 2014, pp. 335-343, HOLANDA - PAISES BAJOS.
- MARCELLAN, F.J.; VARMA, S.
On an inverse problem for a linear combination of orthogonal polynomials, *Journal of difference equations and applications*, Vol. 20, Núm. 4, 2014, pp. 570-585, SUIZA.
- MARTINEZ, L.A.; CUESTA, J. A.
Spreading of intolerance under economic stress: results from a reputation-based model, *Physical review. E, Statistical, nonlinear, and soft matter physics*, Vol. 90, Núm. 2(022805), 2014, pp. 1-13, ESTADOS UNIDOS DE AMERICA.
- MARTINEZ-RATON, Y.; VARGA, S.; VELASCO, E.
Phase behaviour of liquid-crystal monolayers of rod-like and plate-like particles, *The Journal of chemical physics*, Vol. 140, Núm. 20, 2014, ESTADOS UNIDOS DE AMERICA.
- MASJED, M.; MARCELLAN, F.J.; HUERTAS, E.J.
A finite class of orthogonal functions generated by Routh-Romanovski polynomials, *Complex variables and elliptic equations*, Vol. 59, Núm. 2, 2014, pp. 162-171, REINO UNIDO.
- MEDEROS, L.; VELASCO, E.; MARTINEZ-RATON, Y.
Hard-body models of bulk liquid crystals, *Journal of physics. Condensed matter*, Vol. 26, Núm. 46, 2014, pp. 3101-, REINO UNIDO.
- MIGDAL, P.; RODRIGUEZ, J.; OSZMANIEC, M.; LEWENSTEIN, M.
Multiphoton states related via linear optics, *Physical review. A*, Vol. 89, Núm. 6, 2014, ESTADOS UNIDOS DE AMERICA.

- MUÑOZ, J.M.; VAZQUEZ, L.; CASTRO, M.; GAGO, R.; REDONDO-CUBERO, A.; MORENO-BARRADO, A.; CUERNO, R.
Self-organized nanopatterning of silicon surfaces by ion beam sputtering, *Materials Science & Engineering R-reports*, Vol. 86, 2014, pp. 1-44, HOLANDA - PAISES BAJOS.
- NESIC, S.; CUERNO, R.; MORO, E.
Macroscopic response to microscopic intrinsic noise in three-dimensional fisher fronts, *Physical review letters*, Vol. 113, Núm. 18, 2014, ESTADOS UNIDOS DE AMERICA.
- PABLO, A. D. ; QUIROS, F.; RODRIGUEZ, A.; VAZQUEZ, J.L.
Classical solutions for a logarithmic fractional diffusion equation, *Journal de mathématiques pures et appliquées*, Vol. 101, Núm. 6, 2014, pp. 901-924, PAISES BAJOS.
- PARRY, A.O.; MALIJEVSKY, A.; RASCON, C.
Capillary contact angle in a completely wet groove, *Physical review letters*, Vol. 113, Núm. 14, 2014, pp. 6101-, ESTADOS UNIDOS DE AMERICA.
- PARRY, A.O.; RASCON, C. ; WILLIS, G.; EVANS, R.
Pair correlation functions and the wavevector-dependent surface tension in a simple density functional treatment of the liquid-vapour interface, *Journal of physics. Condensed matter*, Vol. 26, Núm. 35, 2014, REINO UNIDO.
- QUINTANA, Y.; RODRIGUEZ, J. M.
Measurable diagonalization of positive definite matrices, *Journal of approximation theory*, Vol. 185, 2014, pp. 91-97, ESTADOS UNIDOS DE AMERICA.
- RAMIREZ, G.; RODRIGUEZ, J.; SIERRA, G.
From conformal to volume law for the entanglement entropy in exponentially deformed critical spin 1/2 chains, *Journal of statistical mechanics: theory and experiment*, Vol. 2014, Núm. 10, 2014, REINO UNIDO.
- RAMIREZ, G.; RODRIGUEZ, J.; SIERRA, G.
Entanglement in low-energy states of the random-hopping model, *Journal of statistical mechanics: theory and experiment*, Vol. 2014, Núm. 7, 2014, REINO UNIDO.
- RODRIGUEZ, J.; IBAÑEZ, M.; SIERRA, G.
Energy space entanglement spectrum of pairing models with s -wave and p -wave symmetry, *Physical review. B. Condensed matter and materials physics*, Vol. 90, Núm. 4, 2014, ESTADOS UNIDOS DE AMERICA.
- RODRIGUEZ, J. M.
Characterization of Gromov hyperbolic short graphs, *Acta Mathematica Sinica-English Series*, Vol. 30, Núm. 2, 2014, pp. 197-212, ALEMANIA.
- RODRIGUEZ, J. M.; SIGARRETA, J.M.; TORRES, Y.
Computing the hyperbolicity constant of a cubic graph, *International journal of computer mathematics*, Vol. 91, Núm. 9, 2014, pp. 1897-1910, REINO UNIDO.
- RODRIGUEZ, J.; SANTALLA, S. N.
Physical consequences of P not equal NP and the density matrix renormalization group annealing conjecture, *Journal of statistical mechanics: theory and experiment*, 2014, REINO UNIDO.
- SANCHEZ, E.A.; TRADACETE, P.
Positively norming sets in Banach function spaces, *Quarterly Journal of Mathematics*, Vol. 65, Núm. 3, 2014, pp. 1049-1068, REINO UNIDO.

- SANTALLA, S. N. ; RODRIGUEZ, J.; CUERNO, R.
Circular Kardar-Parisi-Zhang equation as an inflating, self-avoiding ring polymer, *Physical review. E, Statistical, nonlinear, and soft matter physics*, Vol. 89, Núm. 1, 2014, pp. 10401-, ESTADOS UNIDOS DE AMERICA.
- TERAN, F.D.; DOPICO, F. M.; MACKEY, D.S.
Spectral equivalence of matrix polynomials and the Index Sum Theorem, *Linear algebra and its applications*, Vol. 459, 2014, pp. 264-333, ESTADOS UNIDOS DE AMERICA.
- TERAN, F.D.; DOPICO, F. M.; PEREZ, J.
New bounds for roots of polynomials based on Fiedler companion matrices, *Linear algebra and its applications*, Vol. 451, 2014, pp. 197-230, ESTADOS UNIDOS DE AMERICA.
- TERAN, F.D.; LIPPERT, R.A.; NAKATSUKASA, Y.; NOFERINI, V.
Flanders' theorem for many matrices under commutativity assumptions, *Linear algebra and its applications*, Vol. 443, 2014, pp. 120-138, ESTADOS UNIDOS DE AMERICA.
- TRADACETE, P.; HERNANDEZ, F.L.; SEMENOV, E.M.
Rearrangement invariant spaces with Kato property, *Functiones et Approximatio Commentarii Mathematici*, Vol. 50, Núm. 2, 2014.
- VARGA, S.; MARTINEZ-RATON, Y.; VELASCO, E.
Hard rods in a cylindrical pore: The nematic-to-smectic phase transition, *Journal of physics. Condensed matter*, Vol. 26, Núm. 7, 2014, pp. 75104-, REINO UNIDO.
- VICENTE, J.I.D.
On nonlocality as a resource theory and nonlocality measures, *Journal of physics. A, Mathematical and theoretical*, Vol. 47, Núm. 42, 2014, pp. 4017-, REINO UNIDO.
- VILONE, D.; RAMASCO, J.J.; SANCHEZ, A.; SAN MIGUEL, M.
Social imitation versus strategic choice, or consensus versus cooperation, in the networked Prisoner's Dilemma, *Physical review. E, Statistical, nonlinear, and soft matter physics*, Vol. 90, Núm. 2, 2014, ESTADOS UNIDOS DE AMERICA.
- VIVO, E.; NICOLI, M.; CUERNO, R.
Strong anisotropy in two-dimensional surfaces with generic scale invariance: Nonlinear effects, *Physical review. E, Statistical, nonlinear, and soft matter physics*, Vol. 89, Núm. 4, 2014, ESTADOS UNIDOS DE AMERICA.
- ZAMORA, A.; RODRIGUEZ, J.; LEWENSTEIN, M.; TAGLIACOZZO, L.
Splitting a critical spin chain, *Journal of statistical mechanics: theory and experiment*, Vol. 2014, Núm. 9, 2014, REINO UNIDO.

Monografías Científicas

- GARCIA, A.G.
Bases en espacios de Hilbert. Teoría de muestreo y wavelets, *SANZ Y TORRES*, ESPAÑA, 2014.
- GARCIA, A.G.; MUÑOZ, M. J.
Espacios de Hilbert y análisis de Fourier: los primeros pasos, *SANZ Y TORRES*, ESPAÑA, 2014.

- PESTANA, D. ; RODRIGUEZ, J. M.; MARCELLAN, F.J.
Curso práctico de variable compleja y teoría de transformadas, *PEARSON EDUCACION, S.A.*, ESPAÑA, 2014.

Colaboraciones en obras colectivas

- ARA, P.; LLEDÓ, F.; YAKUBOVICH, D.V.
Følner Sequences in Operator Theory and Operator Algebras, en: Operator Theory, Operator Algebras and Applications, SPRINGER , SUIZA, pp. 1-24, 2014.
- CASTILLO, K.; GARZA, L.G.; MARCELLAN, F.J.
On a Direct Uvarov-Chihara Problem and Some Extensions, en: Analytic Number Theory, Approximation Theory, and Special Functions : In Honor of Hari M. Srivastava, ESPAÑA, pp. 691-704, 2014.

Ponencias y Comunicaciones a congresos

- ALVAREZ, A.; GRANADOS, A.; PORTILLA, A.; RODRIGUEZ, J. M.
Desigualdades Isoperimétricas, Escuelas de Matemática de América Latina y del Caribe (EMALCA 2014), *BARRANQUILLA*, COLOMBIA, 2014.
- ALVAREZ, P.
Existence and multiplicity results of Fourth-Order Semilinear Parabolic Equations of Cahn--Hilliard Type, The 10th AIMS Conference on Dynamical Systems Differential Equations and Applications, ESPAÑA, 2014.
- ALVAREZ, P.
Nonlinear Parabolic and Elliptic problems, Congreso internacional "The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications" organizada en Madrid por AIMS del 7-11 de Julio 2014. Invitado a la sesión especial "Nonlinear Parabolic and Elliptic problems", *MADRID*, ESPAÑA, 2014.
- ANTONIONI, A.; TOMASSINI, M.; SANCHEZ, A.
Human coordination in the presence of local and global information: A laboratory experiment, Congreso Phi-SOE (División de Física de Sistemas Socioeconómicos de la Sociedad Alemana de Física, *DRESDEN*, ALEMANIA, 2014.
- ARVESU, J.
CRM-ICMAT Workshop on Exceptional Orthogonal polynomials and exact solutions in Mathematical Physics, Segovia, Spain, CRM-ICMAT Workshop on Exceptional Orthogonal polynomials and exact solutions in Mathematical Physics., *SEGOVIA*, ESPAÑA, 2014.
- BARBERO, M.
Interconnection of Dirac systems for Morse families, 4th Iberoamerican Meeting on Geometry, Mechanics and Control, *RIO DE JANEIRO*, BRASIL, 2014.
- BARBERO, M.
Morse families in optimal control problems, XVI Encuentro de Invierno Geometría, Mecánica y Teoría de Control, *ZARAGOZA*, ESPAÑA, 2014.
- BARBERO, M.
Applications of Morse families in dynamics., ICMAT-China Exploratory Workshop, *MADRID*, ESPAÑA, 2014.

- BARBERO, M.
Pontryagin's Maximum Principle for Some Families of PDEs, The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, MADRID, ESPAÑA, 2014.
- BAUDENA, M.; SANCHEZ, A.; GEORG, C.P.; RUIZ-BENITO, P.; RODRIGUEZ, M.A.; ZAVALA, M.A.; RIETKERK, M.
Revealing patterns of local species richness along environmental gradients with a novel network tool. , Netherlands Annual Ecology Meeting 2014 (NAEM), LUNTEREN, HOLANDA - PAISES BAJOS, 2014.
- BERMUDO, S.; HERNANDEZ, J.C.; RODRIGUEZ, J. M.; SIGARRETA, J.M.
Relations between the differential and parameters in graphs; en: Electronic Notes in Discrete Mathematics (Jornadas de Matemática Discreta y Algorítmica), ELSEVIER B.V., , 2014.
- BERMUDO, S.; RODRIGUEZ, J. M.; ROSARIO, O.; SIGARRETA, J.M.
Graphs with small hyperbolicity constant; en: Electronic Notes in Discrete Mathematics (Jornadas de Matemática Discreta y Algorítmica), ELSEVIER B.V., , 2014.
- CANTON, A.; GRANADOS, A.; PORTILLA, A.; RODRIGUEZ, J. M.
Quasi-isometries and isoperimetric inequalities in Riemann surfaces., Colloquium of the Department of Mathematics of Waseda University., WASEDA, JAPON, 2014.
- CANTON, A.; GRANADOS, A.; PORTILLA, A.; RODRIGUEZ, J. M.
Isoperimetric inequalities in graphs and surfaces; en: Electronic Notes in Discrete Mathematics (Jornadas de Matemática Discreta y Algorítmica), ELSEVIER B.V., , 2014.
- CARBALLOSA, W.; CRUZ, A.; RODRIGUEZ, J. M.
Lexicographic product graphs and hyperbolicity in the Gromov sense , 8th Workshop of Young Researchers in Mathematics 2014., MADRID, ESPAÑA, 2014.
- CARBALLOSA, W.; CRUZ, A.; RODRIGUEZ, J. M.
Characterization of the hyperbolicity in the lexicographic product; en: Electronic Notes in Discrete Mathematics (Jornadas de Matemática Discreta y Algorítmica), ELSEVIER B.V., , 2014.
- CARBALLOSA, W.; PESTANA, D. ; RODRIGUEZ, J. M.; SIGARRETA, J.M.
Distortion of the hyperbolicity constant in minor graphs; en: Electronic Notes in Discrete Mathematics (Jornadas de Matemática Discreta y Algorítmica), ELSEVIER B.V., , 2014.
- CARBALLOSA, W.; RODRIGUEZ, J. M.; SIGARRETA, J.M.; TORRES, Y.
Distinctive power of the alliance polynomial for regular graphs; en: Electronic Notes in Discrete Mathematics (Jornadas de Matemática Discreta y Algorítmica), ELSEVIER B.V., , 2014.
- CATALAN, P.; FERNANDEZ, C.; CUESTA, J. A.
toyLIFE: un universo de juguete para comprender mejor la evolución, XIX Física Estadística (FisEs'14), ORENSE, ESPAÑA, 2014.
- CIMINI, G.; SANCHEZ, A.
Learning dynamics explains human behavior in Prisoner's Dilemma on networks, Congreso _Phi-SOE (División de Física de Sistemas Socioeconómicos de la Sociedad Alemana de Física), DRESDEN, ALEMANIA, 2014.
- COLORADO, E.
Existence Results for Some Systems of Coupled Fractional Nonlinear Schrodinger Equations, The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, MADRID, ESPAÑA, 2014.

- COLORADO, E.
Positive Solutions to Some Systems of Coupled Nonlinear Schrodinger Equations, The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, *MADRID*, ESPAÑA, 2014.
- CUERNO, R.; MORENO, A.; CASTRO, M.; GAGO, R.; VAZQUEZ BURGOS, L.; MUÑOZ, J.M.; GALIANA, B.; BALLESTEROS, C. I.
Nonuniform stress as a key to surface nanopatterning by ion beam irradiation, 19th International Conference on Ion Beam Modification of Materials (IBMM 2014), *LEUVEN*, BÉLGICA, 2014.
- CUESTA, J. A. ; GRACIA-LAZARO, C.; FERRER, A.; MORENO, Y.; SANCHEZ, A.
Reputation drives cooperative behaviour and network formation in human groups, European Conference on Complex Systems (ECCS'14), *LUCCA*, ITALIA, 2014.
- DEAÑO, A.
Asymptotic analysis of the partition function in the cubic random matrix model, Sydney Random Matrix Theory Workshop, *Sydney*, AUSTRALIA, 2014.
- DEAÑO, A.
Asymptotics of orthogonal polynomials with respect to oscillatory weights, CRM-ICMAT Workshop Exceptional orthogonal polynomials and exact solutions in Mathematical Physics, *SEGOVIA*, ESPAÑA, 2014.
- DEAÑO, A. ; BLEHER, P.
Función de partición en el modelo de matrices aleatorias con potencial cúbico, Tercer Encuentro Conjunto de la Real Sociedad Matemática Española con la Sociedad Matemática Mexicana, *ZACATECAS*, MEXICO, 2014.
- DEAÑO, A. ; KUIJLAARS, A.B.J.; HUYBRECHS, D.; ROMÁN, P.
Análisis asintótico de polinomios ortogonales con respecto a pesos oscilatorios., Cuarto encuentro iberoamericano de polinomios ortogonales y sus aplicaciones. EIBPOA2014. Bogotá (Colombia), junio de 2014. , *BOGOTÁ*, COLOMBIA, 2014.
- DEAÑO, A. ; KUIJLAARS, A.B.J.; ROMAN, P.
Asymptotic analysis of polynomials orthogonal with respect to an oscillatory weight function; en: ORTHOQUAD 2014: International Symposium on Orthogonality, Quadrature and Related Topics. In memory of Pablo González Vera (1955&-2012). Book of Abstracts, , 2014.
- DEAÑO, A. ; KUIJLAARS, A.B.J.; ROMÁN, P.
Large degree asymptotics of orthogonal polynomials with respect to oscillatory weights., Constructive Functions 2014. Vanderbilt University (Nashville, EEUU), mayo de 2014. , *NASHVILLE*, ESTADOS UNIDOS DE AMERICA, 2014.
- DOPICO, F. M.; NAKATSUKASA, Y.; NOFERINI, V.
New Properties of Vector Spaces of (Quasi) Linearizations , The Householder Symposium XIX on Numerical Linear Algebra, *SPA*, BÉLGICA, 2014.
- DOPICO, F. M.; PARLETT, B.N.; FERREIRA, C.
The inverse complex eigenvector problem for real tridiagonal matrices, First Joint International Meeting RSME-SCM-SEMA-SIMAI-UMI, *BILBAO*, ESPAÑA, 2014.
- DOPICO, F. M.; UHLIG, F.
Sylvester equations and the matrix symmetrizer problem, The 2014 International Linear Algebra Society Conference - Satellite conference of ICM 2014, *SEUL*, REPUBLICA DE COREA, 2014.

- GARCÍA-HERRANZ, M.; LLORENTE, A.; CEBRIAN, M.; MORO, E.
Social Media and City Dynamics , ECCS 14, LUGANO, ITALIA, 2014.

- GARZA, L.G.
Productos internos de tipo Sobolev en la circunferencia unidad: Aspectos computacionales, Cuarto Encuentro Iberoamericano de Polinomios Ortogonales y Aplicaciones
Lugar y fecha: Universidad Nacional de Colombia, Bogotá, Colombia, 17-20 Junio 2014., *BOGOTÁ, COLOMBIA*, 2014.

- GARZA, L.G.
On Computational Aspects of Discrete Sobolev Inner Products on the Unit Circle, International Symposium on Orthogonality, Quadrature and Related Topics. In memory of Pablo González Vera (1955-2012) (OrthoQuad 2014), *SANTA CRUZ DE TENERIFE, ESPAÑA*, 2014.

- GARZA, L.G.; MARCELLAN, F.J.; GARZA, L.E.; PINZON, N.C.
A matrix approach for the coherence of orthogonal polynomials, Tercer Encuentro Conjunto de la Real Sociedad Matemática Española y la Sociedad Matemática Mexicana
ZACATECAS, MEXICO, 2014.

- GONZALEZ, J.A.
Projection methods for large T-Sylvester equations, The 19th International Linear Algebra Society Conferency "Solidarity in Linear Algebra", *SEUL, REPUBLICA DE COREA*, 2014.

- GONZALEZ, J.A.; KRESSNER, D.; SINONCINI, V.
Projection methods for large T-Sylvester equations, Joint ALAMA-GAMM/ANLA 2014 Meeting, *BARCELONA, ESPAÑA*, 2014.

- GONZALEZ, J.L.; IBORT, A.
Operadores no acotados en Espacios de Hilbert(Tema A.1), IV Escuela-Taller de Análisis Funcional y Aplicaciones, *SEVILLA, ESPAÑA*, 2014.

- GONZALEZ-PINTO, M.; MARTINEZ-RATON, Y.; VELASCO, E.
Liquid-crystal patterns of rectangular particles in a square nanocavity, International Conference on Statistical Physics (SigmaPhi 2014) , *RHODES, GRECIA*, 2014.

- GONZÁLEZ-PINTO, M.; MARTINEZ-RATON, Y.; VELASCO, E.
Liquid-crystal patterns of rectangular particles in a square nanocavity, XIX Congreso de Física Estadística (FisEs'2014), *ORENSE, ESPAÑA*, 2014.

- GRANADOS, A.; PORTILLA, A.; PESTANA, D. ; RODRIGUEZ, J. M.
Gromov Hyperbolicity in Mycielski Graphs: "Hiperbolicidad en el sentido de Gromov en grafos Mycielskianos", 8th Workshop of Young Researchers in Mathematics 2014, *MADRID, ESPAÑA*, 2014.

- HERNANDEZ, V.; PESTANA, D. ; RODRIGUEZ, J. M.
Bounds on the Hyperbolicity Constant; en: [Electronic Notes in Discrete Mathematics \(Jornadas de Matemática Discreta y Algorítmica\)](#), ELSEVIER B.V., , 2014.

- HERNANDEZ, V.; RODRIGUEZ, J. M.; PESTANA, D.
Bounds on Gromov hyperbolicity constant, 8th Workshop of Young Researchers in Mathematics 2014, *MADRID, ESPAÑA*, 2014.

- IBORT, A.
On the geometrical foundations of field theories on manifolds with boundary: Palatinis formulation of gravity, ICMAT-China Exploratory Workshop, MADRID, ESPAÑA, 2014.
- IBORT, A.
Mentes y máquinas: Ciencia-ficción, Física y Matemáticas, Ciclo de Conferencias "Hablemos de Física" : Ciclo orientado fundamentalmente a estudiantes, ESPAÑA, 2014.
- IBORT, A.
Convex bodies of states, majorization and Atiyah's convexity theorem, Q-Math Seminar: Seminar of Noncommutative Harmonic Analysis (2014), ESPAÑA, 2014.
- IBORT, A.
On Kato's representation theorem for a class of functions on infinite dimensional Kähler manifolds, Function Theory on Infinite Dimensional Spaces XIII, MADRID, ESPAÑA, 2014.
- IBORT, A.
On the structure of Schwinger's measurement algebra: groups, groupoids and 2-groupoids, International Workshop on Symmetries, Special functions and Superintegrability (S-3): International Workshop to Honour Professor Mariano del Olmo in his 60th Birthday, VALLADOLID, ESPAÑA, 2014.
- IBORT, A.
On a Class of Kählerian Hamiltonian Systems on Infinite Dimensional Kähler Manifolds with Holomorphic Flows, The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, MADRID, ESPAÑA, 2014.
- LEONORI, T.
Gradient bounds for quasilinear elliptic equations, Catania, 2014.
- LEONORI, T.
Gradient bounds and large solutions for some nonlinear elliptic equations, 8th European Conference on Elliptic and Parabolic Problems, Gaeta, 2014.
- LEONORI, T.
Ligaçao entre problemas de controle e equações diferenciais em derivadas parciais, Luanda, ANGOLA, 2014.
- LLEDÓ, F.
Finite operators and Foelner sequences of projections, Seminario Rubio de Francia, ESPAÑA, 2014.
- LLEDÓ, F.
Foelner sequences of projections in operator theory and operator algebras Oberseminar Institut für Mathematik, University of Münster, Germany, 22/04/2014., Oberseminar Institut für Mathematik, University of Münster, Germany, , MUNSTER, ALEMANIA, 2014.
- LOPEZ-LAGOMASINO, G.
Título: Convergence of type I Hermite-Padé approximation of rational perturbations of Nikishin systems , Fifth Jaen Conference on Approximation Theory, Computer Aided Geometric Design, Numerical Methods and Applications, UBEDA, ESPAÑA, 2014.
- LOPEZ-LAGOMASINO, G.
On row sequences of Padé and Hermite-Padé approximation, Constructive Functions 2014 NASHVILLE, ESTADOS UNIDOS DE AMERICA, 2014.

- LOPEZ-LAGOMASINO, G.
Título: Introduction to Hermite-Padé Approximation and Multiple Orthogonal Polynomials , International Workshop on Wavelets, Integrable Systems, and Applications, LA HABANA, CUBA, 2014.
- LOPEZ-LAGOMASINO, G.; MEDINA, S.
On the convergence of type I Hermite&-Padé approximants for rational perturbations of a Nikishin system; en: Journal of Computational and Applied Mathematics, ELSEVIER B.V., , 2014.
- MACKEY, D.S.; TERAN, F.D.; DOPICO, F. M.; PEROVIC, V.; TISSEUR, F.
Quasi-Canonical forms for quadratic matrix polynomials, Manchester Workshop on Nonlinear Eigenvalue Problems, MANCHESTER, REINO UNIDO, 2014.
- MACKEY, D.S.; TERAN, F.D.; DOPICO, F. M.; PEROVIC, V.; TISSEUR, F.
Quasi-Canonical Forms for Quadratic Matrix Polynomials, Householder Symposium XIX on Numerical Linear Algebra, SPA, BÉLGICA, 2014.
- MARCELLAN, F.J.
Zeros of para-orthogonal polynomials and linear spectral transformations on the unit circle , International Conference on Orthogonal Polynomials, Integrable Systems and Their Applications, SHANGHAI, CHINA, 2014.
- MARCELLAN, F.J.
Multiple Geronimus transformations and inner products. , Workshop on Orthogonal Polynomials and Special Functions, Sao Jose do Rio Preto, BRASIL, 2014.
- MARCELLAN, F.J.
Spectral transformations and orthogonal polynomials: A matrix approach, IX Research Meeting on Aproximation Theory (EITA), ALQUEZAR, ESPAÑA, 2014.
- MARCELLAN, F.J.
Spectral transformations, Sobolev orthogonal polynomials and more... EIBPOA. Invited lecture. Bogotá, Colombia. Junio 2014., EIBPOA. Invited lecture. Bogotá, Colombia. Junio 2014., BOGOTÁ, COLOMBIA, 2014.
- MARIJUAN, C.; MORO, J.
A combinatorial procedure to generate sufficient conditions for the real nonnegative inverse eigenvalue problem, Joint ALAMA/GAMM-ANLA 2014 Meeting , BARCELONA, ESPAÑA, 2014.
- MARTINEZ-RATON, Y.; VARGA, S.; VELASCO, E.
Phase behavior of liquid-crystal monolayers of rod-like and plate-like particles, XIX Congreso de Física Estadística (FisEs'2014), ORENSE, ESPAÑA, 2014.
- MARTINEZ-RATON, Y.; VELASCO, E.
Phase behavior of liquid-crystal monolayers of rod-like and plate-like particles, International Conference on Statistical Physics (SigmaPhi 2014) , RHODES, GRECIA, 2014.
- MEDINA, S.
Uniform convergence of Hermite-Padé approximants for certain systems of analytic and meromorphic functions , 8th Workshop of Young Researcher in Mathematics. , MADRID, ESPAÑA, 2014.
- MEDINA, S.
Type I Hermite-Padé approximation for certain systems of meromorphic functions, Constructive Functions 2014, NASHVILLE (TENNESSEE), ESTADOS UNIDOS DE AMERICA, 2014.

- MEDINA, S.
A Markov type theorem for Hermite-Padé approximation., XVII International Workshop on Wavelets, Differential Equations, Mechanics, Number Theory and Financial Mathematics., LA HABANA, CUBA, 2014.
- MEDINA, S.
On the convergence of Hermite-Padé approximants, OrthoQuad 2014. An International Symposium on Orthogonality, Quadrature and Related Topics , SANTA CRUZ DE TENERIFE, ESPAÑA, 2014.
- MELIAN, M.V.; RODRIGUEZ, J. M.; TOURIS, E.
Structure theorem and escaping geodesics on Riemannian manifolds., Colloquium of the Department of Mathematics of Waseda University., WASEDA, JAPON, 2014.
- MOLINA MEYER, M.
Charla Invitada en la Sesión Nonlinear Elliptic and Parabolic Problems 10th AIMS Conference -Madrid Julio, 2014 , MADRID, ESPAÑA, 2014.
- MORO, E.
Temporal dynamics of social networks within cities, ECCS 14 (European Conference on Complex Systems), LUCCA, ITALIA, 2014.
- MORO, E.
The dynamics of social networks within cities, European Conference on Complex Systems (ECSS '14). Satellite Workshop, LUCCA, ITALIA, 2014.
- MORO, E.
Using friends as sensors to detect global-scale contagious outbreaks, European Conference on Complex Systems (ECCS '14). Satellite Workshop Computational Social Science, Contagion, Collective Behaviour, and Networks, LUCCA, ITALIA, 2014.
- MORO, E.
Are you a social keeper or a social explorer? The dynamics of human social behavior in communication networks Conferencia invitada en "Mathematics of Social Learning", UCLA (EE.UU.), 6-10 de Enero de 2014, Conferencia invitada en "Mathematics of Social Learning?", UCLA (EE.UU.), 6-10 de Enero de 2014, LOS ANGELES, ESTADOS UNIDOS DE AMERICA, 2014.
- MORO, E.
Are you are social keeper of a social explorer? Managing thousands of friends in the economy of attention, Mathematics of Social Learning, ESPAÑA, 2014.
- MORO, J.
Directional perturbation in structured eigenproblems, VIII International Workshop on Accurate Solution of Eigenvalue Problems, BERLIN, ALEMANIA, 2010.
- MUÑOZ, J.M.; ARES, S.
Formation and maintenance of nitrogen fixing cell patterns in filamentous cyanobacteria, XIX Congreso de Física Estadística (FisEs'14), ORENSE, ESPAÑA, 2014.
- NESIC, S.; CUERNO, R.; MORO, E.
New spreading law of thin film liquids controlled by gravity and vdW forces under thermal fluctuations, XIX Congreso de Física Estadística (FisEs'14), ORENSE, ESPAÑA, 2014.

- NESIC, S.; CUERNO, R.; MORO, E.; KONDIC, L.
Dynamics of thin liquid films controlled by thermal fluctuations, 7th Conference of the International Marangoni Association Interfacial Fluid Dynamics and Processes, VIENA, AUSTRIA, 2014.
- NICOLI, M.; CUERNO, R.; CASTRO, M.
Fragility and robustness of the Kardar-Parisi-Zhang universality class, XIX Congreso de Física Estadística (FisEs'14), ORENSE, ESPAÑA, 2014.
- NICOLI, M.; CUERNO, R.; CASTRO, M.
Fragility and robustness of the Kardar-Parisi-Zhang universality class, Interface fluctuations and KPZ universality class: unifying mathematical, theoretical, and experimental approaches, KYOTO, JAPON, 2014.
- PABLO, A. D.
Classical solutions for nonlinear fractional diffusion equations, International Congress of Mathematicians (ICM 2014), SEUL, REPUBLICA DE COREA, 2014.
- PABLO, A. D.
Classical solutions and higher regularity for nonlinear fractional diffusion equations, VALENCIA, ESPAÑA, 2014.
- PABLO, A. D.
Nonlocal heat equations: decay estimates and Nash inequalities, Seminarios. Departamento de Matemática Aplicada. Universidad Complutense de Madrid, MADRID, ESPAÑA, 2014.
- PARLETT, B.; DOPICO, F. M.; FERREIRA, C.
The inverse complex eigenvector problem for real tridiagonal matrices, Householder Symposium XIX on Numerical Linear Algebra, SPA, BÉLGICA, 2014.
- PEREZ, M.F.
A Cohen type inequality for Laguerre-Sobolev expansions, COIMBRA, PORTUGAL, 2014.
- PEREZ, M.F.
Asymptotic behavior of the partial derivatives of Laguerre kernels and some applications., Constructive Functions 2014, NASHVILLE, ESTADOS UNIDOS DE AMERICA, 2014.
- PEREZ, M.F.
Asymptotics for Laguerre-Sobolev polynomials modified within their oscillatory regime., Orthoquad 2014, SANTA CRUZ DE TENERIFE, ESPAÑA, 2014.
- PIJEIRA, H.E.
Orthogonal polynomials and hydrodynamical models., XVI Evento Internacional de Matemáticas, Computación y Enseñanza MATECOMPU 2014, Universidad de Matanzas, Cuba, 17 a 22 de noviembre., MATANZAS, CUBA, 2014.
- PIJEIRA, H.E.
Orthogonal Polynomials with respect to a Differential Operator. The Jacobi case, 4º Encuentro Iberoamericano de Polinomios Ortogonales y sus Aplicaciones (EIBPOA2014), BOGOTÁ, COLOMBIA, 2014.
- QUINTANA, Y.D.C.; RODRIGUEZ, J. M.
Measurable diagonalization of positive definite matrices and applications to non-diagonal Sobolev orthogonal polynomials., Constructive Functions 2014, VANDERBILT, ESTADOS UNIDOS DE AMERICA, 2014.

- RAMIREZ, A.M.; IBORT, A. ; ARVESU, J.
On some properties of q -Charlier multiple orthogonal polynomials, International Symposium on Orthogonality, Quadrature and Related Topics Puerto de la Cruz, Tenerife, Spain, January 20-24, 2014. , PUERTO DE LA CRUZ, ESPAÑA, 2014.
- RODRIGUEZ, J.; SANTALLA, S. N. ; CUERNO, R.
The role of topology on the Kardar-Parisi-Zhang universality class, Interface fluctuations and KPZ universality class: unifying mathematical, theoretical, and experimental approaches, KYOTO, JAPON, 2014.
- SANCHEZ, A.
Moody conditional cooperation on spatially structured populations: experimental evidence and theoretical implications, Spatial Human Cooperation, PLÖN, ALEMANIA, 2014.
- SANCHEZ, A.
Física de las interacciones estratégicas, XIX Congreso de Física Estadística (FisEs'14), ORENSE, ESPAÑA, 2014.
- SANCHEZ, A.
Cooperación en redes: teorías, experimentos y experimentos bien hechos, NoLineal 2014, BADAJOZ, ESPAÑA, 2014.
- SANTALLA, S. N. ; RODRIGUEZ, J.; CUERNO, R.
The role of topology on the Kardar-Parisi-Zhang universality class, International Conference on Statistical Physics (SigmaPhi2014), RHODES, GRECIA, 2014.
- SANTALLA, S. N. ; RODRIGUEZ, J.; CUERNO, R.
Bolas en métricas aleatorias: la borrachera de Euclides, XIX Congreso de Física Estadística (FisEs'14), ORENSE, ESPAÑA, 2014.
- SANTALLA, S. N. ; RODRIGUEZ, J.; CUERNO, R.; LAGATTA, T.
Random geometry and the Kardar-Parisi-Zhang universality class, KYOTO, JAPON, 2014.
- SANTALLA, S. N. ; RODRIGUEZ, J.; LAGATTA, T.; CUERNO, R.
Random geometry and the KPZ universality class, International Conference on Statistical Physics (SigmaPhi2014), RHODES, GRECIA, 2014.
- SANTIFIMIA, J.; PIJEIRA, H.E.; RUIPEREZ, J.A.; MUÑOZ-MERINO, PEDRO J. ; DELGADO, C.
Towards the development of a learning analytics extension in open edX; en: TEEM '14 Proceedings of the Second International Conference on Technological Ecosystems for Enhancing Multiculturality, ACM, , 2014.
- SANTOS, A.; FERNANDEZ, A.; CUESTA, J. A. ; LOPEZ, L.
Fair Linking Mechanisms for Resource Allocation with Correlated Player Types, NETYS 2014 : The International Conference on NETworked sYSTems, MARRAKECH, MARRUECOS, 2014.
- SORIA, J.; TRADACETE, P.
Dominio y rango óptimos para operadores de Hardy en espacios invariantes por reordenamientos, X Encuentro de la Red de Análisis Funcional y Aplicaciones, SEVILLA, ESPAÑA, 2014.
- SOSA, F.E.; MORO, J.
First order expansions for eigenvalues of multiplicatively perturbed matrices, First Joint International Meeting RSME-SCM-SEMA-SIMAI-UMI, BILBAO, ESPAÑA, 2014.

- TERAN, F.D.; DOPICO, F. M.; PEREZ, J.
Backward stability of polynomial root-finding using Fiedler companion matrices, Joint ALAMA-GAMM/ANLA 2014 Meeting, *BARCELONA*, ESPAÑA, 2014.
- TERAN, F.D.; DOPICO, F. M.; PEREZ, J.
Backward stability of polynomial root-finding using Fiedler companion matrices, Manchester Workshop on Nonlinear Eigenvalue Problems, *MANCHESTER*, REINO UNIDO, 2014.
- TERAN, F.D.; DOPICO, F. M.; PEREZ, J.
Backward stability of polynomial root-finding using Fiedler companion matrices, 6th Conference on Structured Numerical Linear and Multilinear Algebra: Analysis, Algorithms and Applications (SLA 2014), *KALAMATA*, GRECIA, 2014.
- TERAN, F.D.; DOPICO, F. M.; PÉREZ, J.
Backward stability of polynomial root-finding using Fiedler companion matrices, F. De Terán, F.M. Dopico y J. Pérez. Backward stability of polynomial root-finding using Fiedler companion matrices. Charla en "19th Conference of the International Linear Algebra Society", Sungkyunkwan University, Seúl Campus, Corea del Sur. 6-9 de agosto de 2014., *SEUL*, REPUBLICA DE COREA, 2014.
- TERAN, F.D.; DOPICO, F. M.; VAN DOOREN, P.
The general inverse matrix polynomial index structure problem, Workshop on Nonlinear Eigenvalue Problems, *MANCHESTER*, REINO UNIDO, 2014.
- TERAN, F.D.; DOPICO, F. M.; VAN DOOREN, P.
Matrix polynomials with completely prescribed eigenstructure, Joint ALAMA-GAMM/ANLA 2014 Meeting, *BARCELONA*, ESPAÑA, 2014.
- TERAN, F.D.; TISSEUR, F.
Backward error and conditioning of Fiedler companion linearizations, Householder Symposium XIX on Numerical Linear Algebra, *SPA*, BÉLGICA, 2014.
- TERAN, F.D.; TISSEUR, F.
Backward error and conditioning of Fiedler linearizations, Workshop on Nonlinear Eigenvalue Problems (NEP'14), *MANCHESTER*, REINO UNIDO, 2014.
- TRADACETE, P.
Random unconditionality for bases in Banach spaces., Geometry of Banach Spaces - A conference in honor of Stanimir Troyanski, *ALBACETE*, ESPAÑA, 2014.
- TRADACETE, P.
Disjoint sequences in Banach lattices, First Brazilian Workshop in Geometry of Banach Spaces, *MARESIAS*, BRASIL, 2014.
- TRADACETE, P.
Disjointly homogeneous Banach lattices, 7th Conference on Function Spaces. Southern Illinois University Edwardsville, 20-24 May 2014. , *Edwardsville*, ESTADOS UNIDOS DE AMERICA, 2014.
- TRADACETE, P.
Optimal rearrangement invariant range for Hardy type operators., First Joint International Meeting RSME-SCM-SEMA-SIMAI-UMI, *BILBAO*, ESPAÑA, 2014.

- TRADACETE, P.
Disjointly homogeneous Banach lattices and applications, X Encuentro de la Red de Análisis Funcional y Aplicaciones. Universidad de Sevilla, 6-8 Marzo 2014. , SEVILLA, ESPAÑA, 2014.
- TRADACETE, P.
Banach lattice versions of strict singularity, XIII Encuentro de Análisis Funcional Murcia-Valencia, VALENCIA, ESPAÑA, 2014.
- TRADACETE, P.
Banach lattice versions of strict singularity, Interpolación y construcciones en espacios de Banach. Encuentro sobre Espacios de Banach 2014, CASTRO URDIALES, ESPAÑA, 2014.
- TRADACETE, P.; LOPEZ-ABAD, J.
Random unconditionally convergence and bases in Banach spaces, Function Theory on Infinite Dimensional Spaces XIII. ICMAT, Madrid, 4-7 Feb. 2014, MADRID, ESPAÑA, 2014.
- VAN DOOREN, P.; DOPICO, F. M.; TERAN, F.D.
Dual minimal bases and inverse problems for polynomial matrices, 6th Conference on Structured Numerical Linear and Multilinear Algebra: Analysis, Algorithms and Applications (SLA 2014), KALAMATA, GRECIA, 2014.
- VELASCO, E.; MARTINEZ-RATON, Y.
Interplay between columnar and smectic stability in suspensions of polydisperse colloidal platelets; en: Physical Chemistry Chemical Physics, Royal Society of Chemistry, , 2014.
- VICENTE, J.I.D.
LOCC transformations and the maximally entangled set of multipartite quantum states, 2nd Seefeld workshop on Quantum Information, SEEFELD (TRYROL), AUSTRIA, 2014.
- VICENTE, J.I.D.
The maximally entangled set of multipartite quantum states, XVII Conference on Quantum Information Processing (QIP 2014), BARCELONA, ESPAÑA, 2014.
- VICENTE, J.I.D.; SPEE, C.; KRAUS, B.
The maximally entangled set of multipartite quantum states, 11th Central European Quantum Information Processing Workshop (CEQIP 2014), ZNOJMO, REPUBLICA CHECA, 2014.
- VIVO, E.; NICOLI, M.; CUERNO, R.
Strong anisotropy in two-dimensional surfaces with generic scale invariance: Non-linear effects, XIX Congreso de Física Estadística (FisEs'14), ORENSE, ESPAÑA, 2014.
- VIVO, E.; NICOLI, M.; ENGLER, M.; MICHELY, T.; VAZQUEZ BURGOS, L.; CUERNO, R.
Strong Anisotropy in Surface Kinetic Roughening: Theory and Experiments , Interface fluctuations and KPZ universality class: unifying mathematical, theoretical, and experimental approaches, KYOTO, JAPON, 2014.

Actividades de formación y movilidad de personal investigador

Estancias en otros centros

- **CARLOS RASCON DIAZ**
Título: Estancia de Investigación (Visitante) en el Imperial College London, Departamento de Matemáticas
Duración: 4 semanas (6 julio - 3 agosto) *Tema:* Adsorción de Fluidos (Wetting) en Substratos Estructurados
Centro Externo: Imperial College London
País: REINO UNIDO
Duración: 06/07/2014 a 03/08/2014.
- **ESTEBAN MORO EGIDO**
Título: Profesor visitante al Information Sciences Institute, University of Southern California. *Tema:* Modelización de la atención en redes sociales
Centro Externo: University of Southern California
País: ESTADOS UNIDOS DE AMERICA
Duración: 01/08/2014 a 31/08/2014.
- **FERNANDO LLEDO MACAU**
Título: Fields Institute, Toronto, Canada. (1 mes) 2014
Centro Externo: Fields Institute, Toronto, Canadá
País: CANADA
Duración: 05/2014 a 06/2014.
- **JAVIER MANUEL MUÑOZ GARCIA**
Título: Estancia de Investigación en el Weizmann Institute of Science. *Duración (semanas):* 12
Centro Externo: Weizmann Institute of Science
País: ISRAEL
Duración: 01/02/2014 a 30/04/2014.
- **JOSE MANUEL RODRIGUEZ GARCIA**
Título: CENTRO: Facultad de Matemáticas, Universidad Autónoma de Guerrero, Acapulco, México.
TEMA: Indices topológicos de grafos.
Centro Externo: Universidad Autónoma de Guerrero
País: MEXICO
Duración: 13/08/2014 a 27/08/2014.
- **MARCELA MOLINA MEYER**
Título: Estancia de investigación en Mathematics Department University of Wisconsin at Madison.
Centro Externo: Mathematics Department University of Wisconsin at Madison. EEUU.
País: ESTADOS UNIDOS DE AMERICA
Duración: 12/07/2014 a 27/07/2014.
- **RODOLFO CUERNO REJADO**
Título: Instituto de Física, Universidade Federal Fluminense, Niterói, Brasil.
Centro Externo: Instituto de Física, Universidade Federal Fluminense, Niterói, Brasil.
País: BRASIL
Duración: 08/08/2014 a 13/09/2014.

- TOMMASO LEONORI
Título: Estancia de investigación/docencia
Centro Externo: Universidade Agostinho Neto
País: ANGOLA
Duración: 21/02/2014 a 05/04/2014.

Estancias de investigadores externos en la universidad

- JOSE MANUEL RODRIGUEZ GARCIA
Título: Investigador: Yamilet Quintana Mato. Centro Externo: Departamento de Matemáticas Puras y Aplicadas, Universidad Simón Bolívar.
Centro Externo: Universidad Simón Bolívar
País: VENEZUELA
Duración: 02/03/2014 a 01/04/2014.
- JOSE MANUEL RODRIGUEZ GARCIA
Título: Investigador: José María Sigarreta Almira. Centro Externo: Facultad de Matemáticas, Universidad Autónoma de Guerrero, Acapulco. TEMA: Índice aritmético-geométrico en grafos.
Centro Externo: Universidad Autónoma de Guerrero
País: MEXICO
Duración: 20/06/2014 a 15/07/2014.
- RODOLFO CUERNO REJADO
Título: Kim, J.-H. Sookmyung Women's University (Seúl, Corea del Sur).
Centro Externo: Sookmyung Women's University
País: REPUBLICA DE COREA
Duración: 13/01/2014 a 28/01/2014.