



# UNIVERSIDAD DE GRANADA

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Departamento de  
Análisis Matemático

## Curso 2001-2002

- Acosta y Ruiz-Galán: Reflexive spaces and numerical radius attaining operators, *Extracta Math.* 15 (2000).
- Arcoya y Gámez: Bifurcation theory and application to semilinear problems near the resonance parameter, *Nonlinear Anal. Appl.* 43 (2001).
- Badiale, Pellacci y Villegas: Elliptic problems on  $R^n$  with jumping non-linearities: perturbation results, *Diff. Int. Eqns.* 13 (2000).
- Berenger y Villena: On the range of a Lie derivation on a Banach algebra, *Commun. Algebra* 28 (2000).
- Cabrera y Mohammed: A representation theorem for algebras with commuting involutions, *Linear algebra and its applications* 306 (2000).
- Cañada: Non-linear ordinary boundary value problems under a combined effect of periodic and attractive non-linearities, *J. Math. Anal. Appl.* 243 (2000).
- Cañada: Una perspectiva histórica de las series de Fourier: de las ecuaciones de ondas y del calor a los operadores compactos y autoadjuntos, Relime, *Revista Latinoamericana en Investigación Educativa* 2 (2000).
- Cañada, Gámez y Montero: Nonlinear optimal control problems for diffusive elliptic equations of logistic type, Proc. ASDE98, International Autumn School on Nonlinear Analysis and Differential Equations, Lisboa (Portugal), *Progress in Nonlinear Differential Equations and Applications*, 43; Birkhauser Boston (2001).
- Cañada, Magal y Montero: Optimal control of Harvesting in a non-linear elliptic system arrising from polulation dinamic, *J. Math. Anal. Appl.* 254 (2001).
- Cañada y Ruiz: Resonant non-linear boundary value problems with almost-periodic non-linearity, *Bull. Belgium Math. Soc.*
- Cañada y Ureña: An asymptotic result on the solvability set of pendulum type equation with linear dumping and homogenous Dirichlet conditions, *Electronic J. Diff. Eqns.* 6 (2001).
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- Cañada y Ureña: Some new qualitative properties on the solvability set of pendulum-type equations, *Discrete and Continuous Dynamical System, Proc. Inter. Conference: May 18-21, Kennesaw State University, GA, USA* (2001).
- Dales y Villena: Continuity of derivations, intertwining maps, and cocycles, *J. London Math. Soc.* 63 (2001).
- Kaidi, Morales y Rodríguez-Palacios: Geometric properties of the product of a  $C^*$ -algebra, *Rocky Mountain J. Math.* 31 (2001).
- Martín: A survey on the numerical index of a Banach space, *Extracta Math.* 15 (2000).
- Martín y Payá: Numerical index of vector-valued function spaces, *Studia Math.*

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- Martínez y Villena: Differential equations related to the Williams-Bjerknes tumour model, Proc. Indian Acad. Sci. (Math Sci.) 110 (2000).
- Martínez y Peralta: Separate weak\*-continuity of the triple product in dual real JB\*-triples, Math. Z. 234 (2000).
- Montero: Study of the profitability for an optimal control problem when the side of the domain changes, Natural Resources and Modelling 14 (2001).
- Montero: Optimal control of Harvesting in a parabolic system modelling two subpopulation, Math. Models and Methods in the Appl. Sciences 7 (2001).
- Pellacci y Villegas: Some existence results for a class of resonant problems on  $R^n$ , Communications in Appl. Anal. 4 (2000).
- Peralta y Stacho: Atomic decomposition of real JB\*-triples, Quarterly J. Math. 52 (2001).
- Rodriguez-Palacios: Continuity of homomorphisms into normed algebras without topological divisors of zero, Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales de Madrid 94 (2000).
- Rodriguez-Palacios: A numerical range characterization of uniformly smooth Banach spaces, Proc. Amer. Math. Soc. 129 (2001).
- Salinas y Velasco: Normal essential eigenvalues in the boundary of the numerical range, Proc. Amer. Math. Soc. 129 (2001).
- Villena: Elements in a commutative Banach algebra determining the norm topology, Proc. Amer. Math. Soc. 129 (2001).
- Villena: Lie derivations on Banach algebras, J. Algebra 226 (2000).