

**PRODUCCIÓ CIENTÍFICA DERIVADA DE LES TESIS
DEFENSADES o DIPOSITADES en**
Gener 2013-Novembre 2016
PROGRAMA DE DOCTORAT EN MATEMÀTICA APLICADA – UPC

Facultat de Matemàtiques i Estadística¹

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**Publicacions en revistes indexades derivades de
les tesis**

¹ La primera versió d'aquest informe ha estat elaborada pel servei de biblioteca de l'FME. Posteriorment va ser enviat als directors i es van incorporar les seves correccions.

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ASADIPOUR, NINA - Rheological models for tissue relaxation and fluidization

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- Li, Bin; Peco, Christian; Millán, Daniel; Arias, Irene; Arroyo, Marino. Phase-field modeling and simulation of fracture in brittle materials with strongly anisotropic surface energy. *Internat. J. Numer. Methods Engrg.* 102 (2015), no. 3-4, 711–727. ISSN: 0029-5981 E-ISSN: 1097-0207. Revista indexada al JCR Q1

ROIG MARANGES, ABDÓ - Descent in Lawson homology and morphic cohomology

- Roig-Maranges, Abdó Morphic cohomology of toric varieties. *Homology Homotopy Appl.* 14 (2012), no. 1, 113–132. ISSN: 1532-0073 ; E-ISSN: 1532-0081. Revista indexada al JCR Q3
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SALES INGLES, VICENTE - Aportaciones al estudio de los sistemas electorales

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SERRA I MUSACH, JORDI - Estudi de l'evolució i el tractament del càncer des d'una perspectiva de la biologia de sistemes

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DALL, AARON MATTHEW - Matroids: h-vectors, zonotopes, and Lawrence polytopes

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GRAU GOTÉS, MARIA ÁNGELA - On iterative methods to solve nonlinear equations

- Ezquerro, José A.; Grau, Angela; Grau-Sánchez, Miquel; Hernández-Verón, Miguel A. A new class of secant-like methods for solving nonlinear systems of equations. *Commun. Appl. Math. Comput. Sci.* 9 (2014), no. 2, 201–213. ISSN: 1559-3940 ; E-ISSN: 2157-5452. Revista indexada al JCR Q2
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HASHEMIAN, BEHROOZ - Machine learning in multiscale modeling and simulation of molecular systems

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MONTORO LOPEZ, MARIA EULALIA - SUBESPACIOS HIPERINVARIANTES Y CARACTERÍSTICOS: UNA APROXIMACIÓN GEOMÉTRICA

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SÁNCHEZ MARTÍN, PATRICIA - APPLICATION OF DYNAMICAL SYSTEM METHODS TO GALACTIC DYNAMICS: FROM WARPS TO DOUBLE BARS

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- Martín, P.; Ramírez-Ros, R.; Tamarit-Sariol, A. Exponentially small asymptotic formulas for the length spectrum in some billiard tables. *Exp. Math.* 25 (2016), no. 4, 416–440. ISSN: 1058-6458; E-ISSN: 1944-950X. Revista indexada al JCR Q3
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UM, LAURENCE EMILIE - A CONTRIBUTION TO THE THEORY OF CONVOLUTIONAL CODES FROM SYSTEMS THEORY POINT OF VIEW

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- de Vera-Piquero, Carlos. Local points on Shimura coverings of Shimura curves at bad reduction primes. *Mosc. Math. J.* 16 (2016), no. 2, 323–370. ISSN: 1609-3321; E-ISSN: 1609-4514. Revista indexada al JCR Q2
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- Ibáñez-Marcelo, Esther; Alarcón, Tomás Evolutionary escape on complex genotype-phenotype networks. J. Theoret. Biol. 394 (2016), 18–31. ISSN: 0022-5193. Revista indexada al JCR Q1
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LORENZO GARCÍA, ELISA - Arithmetic properties of non-hyperelliptic genus 3 curves

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MACDEVETTE, MICHELLE MARI - Heat transfer analysis of nanofluids and phase change materials

- MacDevette, Michelle; Myers, Tim. Nanofluids: An innovative phase change material for cold storage systems? International Journal of Heat and Mass Transfer 92 (2016), 550-557. ISSN: 0017-9310. Revista indexada al JCR Q1
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RABIEI, SEYEDNIMA - Decomposition Techniques for Computational Limit Analysis

- Rabiei, Nima; Muñoz, Jose J. AAR-based decomposition algorithm for non-linear convex optimisation. Comput. Optim. Appl. 62 (2015), no. 3, 761–786. ISSN: 0926-6003 ; E-ISSN: 1573-2894. Revista indexada al JCR Q1

ROS OTON, XAVIER - Integro-differential equations: regularity theory and Pohozaev identities

- Ros-Oton, Xavier; Serra, Joaquim, Boundary regularity for fully nonlinear integro-differential equations. Duke Math. J. 165 (2016), 2079–2154. Revista indexada al JCR Q1.
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