



**A. PRODUCTIVIDAD ACADÉMICA PROFESORES DE NÚCLEO
ACADÉMICO BÁSICO
(ARTICULOS)**

	TITULO	AUTOR(ES)	REVISTA	Doi
2019				
1	Neimark-Sacker bifurcation in a tritrophic model with defense in the prey.	Gamaliel Blé, Miguel Angel De la Rosa	Chaos Solitons Fractals	https://doi.org/10.1016/j.chaos.2019.03.034
2	Stability analysis of a tritrophic model with stage structure in the prey population.	Gamaliel Blé, Miguel Angel De la Rosa, Iván Loreto Hernández	J. Nonlinear Sci. Appl.	doi:10.22436/jnsa.012.12.01
3	Blow up and globality of solutions for a nonautonomous semilinear heat equation with Dirichlet	Pérez, Aroldo, Ceballos-Lira, Marcos Josías	Rev. Colombiana Mat.	



4	The existence of a limit cycle in a pollinator-plant-herbivore mathematical model	Víctor Castellanos Vargas, Faustino Sánchez Garduño	Nonlinear Anal. Real World Appl.	https://doi.org/10.1016/j.nonrwa.2019.01.011
5	Core entropy of polynomials with a critical point of maximal order.	González, Domingo; Blé, Gamaliel	Discrete Contin. Dyn. Syst.	doi:10.3934/dcds.2019005
6	Fiducial distribution in a power series family.	Nájera, Edilberto; O'Reilly, Federico; Ruiz-Velasco, Silvia	Comm. Statist. Theory Methods	https://doi.org/10.1080/03610926.2018.1522347
7	On the controllability of transitions between equilibrium states in small inductively coupled arrays of	Jorge López, Héctor Juárez, Yehuda Braiman	Journal of Computational Physics	https://doi.org/10.1016/j.jcp.2019.109023
8	A formal justification of the Ancient Chinese Method of Computing Square Roots	Nájera, Edilberto	The mathematics enthusiast	
2018				



1	Andronov-Hopf and Bautin bifurcation in a tritrophic food chain model with Holling functional response	Víctor Castellanos Vargas, Gamaliel Blé, Iván Loreto Hernández	Electron. J. Qual. Theory Differ. Equ.	https://doi.org/10.142332/ejqtde.2018.1.78
2	Near-infinity concentrated norms and the fixed point property for nonexpansive maps on closed, bounded, convex sets.	Francisco Eduardo Castillo Santos ; Dowling, P. N.; Fetter, H.; Japón, M.; Lennard, C. J.; Sims, B.; Turett	J. Funct. Anal.	https://doi.org/10.1016/j.jfa.2018.04.007
3	Coexistence of species in a tritrophic food chain model with Holling functional response type IV.	Víctor Castellanos Vargas, Gamaliel Blé, Miguel Ángel De La Rosa Castillo	Math. Methods Appl.	Doi:10.1002/mma.5184
4	Global analysis of a mathematical model for hepatitis considering the host immune system	Gamaliel Blé, Lourdes Esteva, Alejandro Peregrino	Journal of Mathematical Analysis and Applications	https://doi.org/10.1016/j.jmaa.2018.01.050



5	Hopf and Bautin Bifurcation in a Tritrophic Food Chain Model With Holling Functional Response Type III and IV	Miguel Ángel De La Rosa Castillo Iván Loreto Hernández Victor Castellanos Vargas Francisco Eduardo Castillo Santos	International Journal of Bifurcation and Chaos	Doi: 10.1142/S0218127418500359
6	On a Lemma of Varchenko and Higher Bilinear Forms Induced by Grothendieck Duality on the Milnor Algebra of an Isolated Hypersurface Singularity	Miguel Ángel De La Rosa Castillo	Bulletin of the Brazilian Mathematical Society, New Series	https://doi.org/10.1007/s00574-018-0075-y
7	Binary discrimination methods for high-dimensional data with a geometric representation	Addy Margarita Bolívar Cimé Luis Miguel Córdova Rodríguez	Communications in Statistics-Theory and Methods	http://dx.doi.org/10.1080/03610926.2017.1342838



8	Optimization of Thurston's core entropy algorithm for polynomials with a critical point of maximal order.	Blé, Gamaliel; González, Domingo	Entropy	Doi: 10.3390/e20090695
9	Hausdorff dimension of Julia sets of quadratic polynomials.	Martínez, Luis Manuel; Blé, Gamaliel	<u>Fractals</u>	https://doi.org/10.1142/S0218348X18500202
2017				
1	El espacio de golomb y su no conexidad en pequeño	Gerardo Delgadillo Piñón, José del Carmen Alberto Domínguez, Gerardo Acosta, Maira Madriz Mendoza	Revista integración, temas de matemáticas	http://dx.doi.org/10.18273/revint.v35n2-2017004
2	Blow up of fractional reaction-diffusion systems with convection and without convection	Pérez-Perez, Aroldo	Journal of Integral Equations and Applications	



3	A Generalization of Douady's Formula	Gamaliel Blé	Discrete and Continuous Dynamical	doi:10.3934/dcds.2017267
4	Existence of limit cycles in a three level trophic chain with Lotka–Volterra and Holling type II functional response	Víctor Castellanos, Ramón E. Chan-López	Chaos, Solitons and Fractals	http://dx.doi.org/10.1016/j.chaos.2016.12.011
5	A Generalist Predator and the Planar Zero-Hopf Bifurcation	Luis Miguel Valenzuela, Manuel Falconi, and Gamaliel Blé	International Journal of Bifurcation and Chaos	DOI: 10.1142/S0218127417500341
6	Discounted approximations to the risk-sensitive average cost in finite Markov	Rolando Cavazos Cadena, Daniel Cruz Suárez	Journal of Mathematical Analysis and Applications	http://dx.doi.org/10.1016/j.chaos.2017.01.084
7	On fiducial generators	Edilberto Nájera, Federico O' Reilly	Communications in statistics-Theory and Methods	http://dx.doi.org/10.1080/03610926.2015.1040505
8	Existence of a Limit Cycle in an Intraguild Food Web Model with Holling Type II and Logistic Growth for the	Miguel Ángel De La Rosa Castillo Francisco Eduardo Castillo Santos Iván Loreto	Applied Mathematics	https://doi.org/10.4236/****.2017.*****



2016				
1	Análisis hidrodinámico de rejas de canales mediante simulaciones numéricas bidimensionales.	Emmanuel Munguía-Balvanera, Alberto Blanco-Piñón y Justino Alavez-	Ingeniería y Ciencia	Doi: 10.17230/ingciencia.12.23.4
2	Simulación numérica de inundaciones en Villahermosa México usando el código Iber	González-Aguirre, J.C., Vázquez-Cendón, M.E., Alavez-Ramírez, J.	Ingeniería del Agua	Doi: 10.4995/la.2016.5231
3	Discounted approximations to the risk-sensitive average costin finite markov chains	R. Cavazos-Cadena, D. Cruz Suárez	Journal of Mathematical Analysis and Applications Elsevier	http://dx.doi.org/10.1016/j.jmaa.2017.01.084
4	Existence of limit cycles in a tritrophic food chain model with Holling functionI responses of type II and III	Gamaliel Blé, Víctor Castellanos ad Jaume Llibre	Mathematical Methods in the Applied Sciences	DOI: 10.1002/mma.3842



5	Bats in a tropical wind farm: species composition and importance of the spatial attributes of vegetation cover on bat fatalities	Addy Margarita Bolivar Cime Beatriz Bolivar Cime Rafael Villegas Patraca Oscar Muñoz Jiménez	Journal of Mammalogy	DOI:10.1093/jmammal/gyw069
2015				
1	Monitoring CD4+ cells using viral load measurements.	Alavez-Ramírez J. Fuentes-Allen J. L. López-Estrada J. Mata-Marin J. A.	Sky Journal of Medicine and Medical Sciences	http://www.skyjournals.org/SJMMS
2	Global existence and blow-up for nonautonomous systems with non-local symmetric generators and Dirichlet conditios	Aroldo Pérez	Differential Equations & Applications	Doi : 10.7153/dea-07-15



3	The τ -fixedpoint property for left reversible semigroups	Francisco E. Castillo Santos, María A. Japón	Fixed Point Theory and Applications	DOI 10.1186/s13663-015-0357-7
4	Global and nonglobal solutions of a system of nonautonomous semilinear equations with ultracontractive Levy generators	José Alfredo López Mimbela; Pérez Aroldo	Journal of Mathematical Analysis and Applications	http://dx.doi.org/10.1016/j.jmaa.2014.10.025
5	Improving the reconstruction of vector fields using mixed finite element methods and optimal preconditioning	Jorge López López, Héctor Juárez, Ma. Luisa Sandoval	Numerical methods for partial differential equations	
2014				
1	Dynamics of a Nonlinear Mathematical Model for Three Interacting	Víctor Castellanos V., F. Sánchez-Garduño, J.	Boletín de la Sociedad Matemática Mexicana	DOI 10.1007/s40590-014-0010-1



2	PCA and eigen-inference for a spiked covariance model with largest	Victor Perez-Abreu Addy Bolivar-Cimé	Brazilian Journal of Probability and Statistics	DOI: 10.1214/12-BJPS205
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B. PRODUCTIVIDAD ACADÉMICA PROFESORES EXTERNOS

	TITULO	AUTOR(ES)	REVISTA	Doi
2020				
1	Predator interference in a	Falconi, Manuel; Vera-Damián,	Nonlinear Anal. Real World Appl.	https://doi.org/10.1016/j.nonrwa.2019.102974



2019

1	Ejection-collision orbits in the symmetric collinear four-body problem.	Alvarez-Ramírez, M.; Barrabés, E.; Medina, M.; Ollé, M.	Commun. Nonlinear Sci. Numer. Simul.	https://doi.org/10.1016/j.cnsns.2018.10.026
2	Hjelmslev quadrilateral central configurations.	Alvarez-Ramírez, M.; Llibre, J.	Phys. Lett. A	https://doi.org/10.1016/j.physleta.2018.08.034
3	A special family of stacked central configurations: Lagrange plus Euler in one.	Cornelio, J. Lino; Álvarez-Ramírez, M.; Cors, Josep M.	J. Dynam. Differential Equations	https://doi.org/10.1007/s10884-018-9647-1
4	Corrigendum to "Oscillatory motions in restricted N-body problems"	Alvarez-Ramírez, M.; García, A.; Palacián, J. F.; Yanguas, P.	J. Differential Equations	https://doi.org/10.1016/j.jde.2019.04.028
5	Equilic quadrilateral central configurations.	Alvarez-Ramírez, Martha; Llibre, Jaume	Commun. Nonlinear Sci. Numer. Simul.	https://doi.org/10.1016/j.cnsns.2019.104872



2018

1	Oscillatory motions in restricted N-body problems.	Alvarez-Ramírez, M.; García, A.; Palacián, J. F.; Yanguas, P.	J. Differential Equations	https://doi.org/10.1016/j.jde.2018.03.008
2	Nonintegrability of the Armbruster-Guckenheimer-Kim quartic Hamiltonian through Morales-	Acosta-Humánez, P.; Alvarez-Ramírez, M.; Stuchi, T. J.	SIAM J. Appl. Dyn. Syst.	DOI. 10.1137/16M1080689

2017

1	On the homoclinic orbits of the Lü system.	Alvarez-Ramírez, M.; García-Saldaña, J. D.	Internat. J. Bifur. Chaos Appl. Sci. Engrg.	DOI: 10.1142/S0218127417500705
2	A note on a family of non-gravitational central force potentials in dimension one.	Alvarez-Ramírez, M.; Corbera, M.; Cors, Josep M.; García, A.	Appl. Math. Lett.	http://dx.doi.org/10.1016/j.aml.2017.04.020



3	The three-body problem and equivariant Riemannian geometry.	Alvarez-Ramírez, M.; García, A.; Meléndez, J.; Reyes-Victoria, J. G.	J. Math. Phys.	https://doi.org/10.1063/1.5000075
4	A family of stacked central configurations in the planar five-body problem.	Cornelio, J. Lino; Álvarez-Ramírez, M.; Cors, Josep M.	Celestial Mech. Dynam. Astronom.	DOI 10.1007/s10569-017-9782-8
5	A generalist predator and the planar zero-Hopf bifurcation.	Valenzuela, Luis Miguel; Falconi, Manuel; Blé, Gamaliel	Internat. J. Bifur. Chaos Appl. Sci. Engrg.	DOI: 10.1142/S0218127417500341
2016				
1	On the central configurations in the spatial 5-body problem with four equal masses.	Alvarez-Ramírez, Martha; Corbera, Montserrat; Llibre, Jaume	Celestial Mech. Dynam. Astronom.	DOI 10.1007/s10569-015-9670-z



2	Schubart solutions in the charged collinear three-body problem.	Castro Ortega, Alberto; Falconi, Manuel	J. Dynam. Differential Equations	DOI 10.1007/s10884-015-9451-0
2015				
1	Transport orbits in an equilateral restricted four-body problem.	Alvarez-Ramírez, M.; Barrabés, E.	Celestial Mech. Dynam. Astronom.	DOI 10.1007/s10569-014-9594-z
2	Preface [Special issue: Hamiltonian Systems and Celestial Mechanics, HAMSYS-2014]. Held at the Universitat	Alvarez, M.; Corbera, M.; Cors, J. M.; Llibre, J.; Pérez-Chavela, E.	Qual. Theory Dyn. Syst.	DOI 10.1007/s12346-015-0173-9



3	The rhomboidal 4-body problem revisited.	Alvarez-Ramírez, Martha; Medina, Mario	Qual. Theory Dyn. Syst.	DOI 10.1007/s12346-015-0151-2
4	A global regularization for the (N+1)-body problem with the primaries in a regular N-gon central configuration	Ramírez, Martha Alvarez; Vidal, Claudio	Qual. Theory Dyn. Syst.	DOI 10.1007/s12346-015-0149-9
5	Bifurcations of the spatial central configurations in the 5-body problem. <i>Extended abstracts Spring 2014—Hamiltonian systems and</i>	Álvarez-Ramírez, Martha; Corbera, Motserrat; Llibre, Jaume	<u>Trends Math. Res.</u> <u>Perspect. CRM Barc.</u>	



6	Stability and global dynamic of a stage-structured predator-prey model with group defense mechanism of the prey.	Falconi, Manuel; Huenchucona, Marcelo; Vidal, Claudio	Appl. Math. Comput.	http://dx.doi.org/10.1016/j.amc.2015.07.109
7	Chaotic dynamics and coexistence in a three species interaction model.	Sáez, Eduardo; Stange, Eduardo; Szántó, Iván; González-Olivares, Eduardo; Falconi, Manuel	Int. J. Biomath.	DOI: 10.1142/S1793524515500229
2014				
1	Poincaré maps and near-collision dynamics for a restricted	Alvarez-Ramírez, Martha; García, Antonio	Appl. Math. Comput.	http://dx.doi.org/10.1016/j.amc.2014.02.009
2	Global regularization of a restricted four-body problem.	Alvarez-Ramírez, Martha; Delgado, Joaquín; Vidal, Claudio	Internat. J. Bifur. Chaos Appl. Sci. Engrg.	DOI: 10.1142/S0218127414500928



3	Dynamics of mechanical systems with polynomial potentials	Falconi, M.; Lacomba, E. A.; Vidal, C.	J. Dynam. Differential Equations	DOI 10.1007/s10884-014-9357-2
4	Symmetric periodic orbits and Schubart orbits in the charged	Castro Ortega, Alberto; Falconi, Manuel; Lacomba, Ernesto A.	Qual. Theory Dyn. Syst.	DOI 10.1007/s12346-014-0112-1

