

## PUBLICACIONES 2013

1. Bochi, J.; **Navas, Andrés** Almost reduction and perturbation of matrix cocycles. *Annales de l'Institut Henri Poincaré* (2013), In Press.
2. **Castro, Gonzalo**; Jorquera, Eduardo; **Navas, Andrés** Sharp regularity for certain nilpotent group actions on the interval. *Mathematische Annalen* (2013), In Press.
3. **Navas, Andrés**; Ponce, Mario A Livšic type theorem for germs of analytic diffeomorphisms. *Nonlinearity* 26 (2013), no. 1, 297–305.
4. **Navas, Andrés** An  $L_1$  ergodic theorem with values in a non-positively curved space via a canonical barycenter map. *Ergodic Theory Dynam. Systems* 33 (2013), no. 2, 609–623.
5. **Navas, Andrés**; Triestino, Michele On the invariant distributions of  $C^2$  circle diffeomorphisms of irrational rotation number. *Math. Z.* 274 (2013), no. 1-2, 315–321.
6. Coronel, Daniel; **Navas, Andrés**; Ponce, Mario On bounded cocycles of isometries over minimal dynamics. *J. Mod. Dyn.* 7 (2013), no. 1, 45–74.
7. Deroin, Bertrand; Kleptsyn, Victor; **Navas, Andrés**; Parwani, K. Symmetric random walks on  $\text{homeo}^+(\mathbb{R})$ . *Annals of Probability* 41(2013), no. 3B, 2066-2089.
8. **Navas, Andrés** On centralizers of interval diffeomorphisms in critical (intermediate) regularity. *J. Anal. Math.* 121 (2013), 1–30.
9. Alvarez-Pardo, Edgardo; **Lizama, Carlos** Pseudo asymptotic solutions of fractional order semilinear equations. *Banach J. Math. Anal.* 7 (2013), no. 2, 42–52.
10. Keyantuo, Valentin; **Lizama, Carlos**; Warma, Mahamadi Spectral criteria for solvability of boundary value problems and positivity of solutions of time-fractional differential equations. *Abstr. Appl. Anal.* 2013, Art. ID 614328, 11 pp.
11. **Lizama, Carlos**; Poblete, Felipe Regularity of mild solutions for a class of fractional order differential equations. *Appl. Math. Comput.* 224 (2013), 803–816.
12. **Lizama, Carlos**; Miana, Pedro J.; Poblete, Felipe Uniform stability of  $(a,k)$ -regularized families. *Asymptot. Anal.* 84 (2013), no. 1-2, 47–60.
13. **Lizama, Carlos**; Ponce, Rodrigo Maximal regularity for degenerate differential equations with infinite delay in periodic vector-valued function spaces. *Proc. Edinb. Math. Soc.* (2) 56 (2013), no. 3, 853–871.
14. Cuevas, Claudio; **Lizama, Carlos**; Soto, Herme Asymptotic periodicity for strongly damped wave equations. *Abstr. Appl. Anal.* 2013, Art. ID 308616, 14 pp.

15. **Lizama, Carlos**; Mesquita, Jaqueline G. Almost automorphic solutions of dynamic equations on time scales. *J. Funct. Anal.* 265 (2013), no. 10, 2267–2311.
16. Keyantuo, Valentin; **Lizama, Carlos**; Warma, Mahamadi Asymptotic behavior of fractional-order semilinear evolution equations. *Differential Integral Equations* 26 (2013), no. 7-8, 757–780.
17. **Lizama, Carlos**; Mesquita, Jaqueline G. Almost automorphic solutions of non-autonomous difference equations. *J. Math. Anal. Appl.* 407 (2013), no. 2, 339–349.
18. **Lizama, Carlos**, N'Guérékata, G.M. Mild solutions for abstract fractional differential equations. *Applicable Analysis* 92 (2013), no. 8, 1731-1754.
19. **Lizama, Carlos**, Rebolledo, R. On a class of Non-Markovian Langevin equations. *Open Systems and Information Dynamics* 20 (2013), no. 4.
20. Milovic, Carlos; Oses, Carolina; Villalón, Manuel; Uribe, Sergio; **Lizama, Carlos**; Prieto, Claudia; Andia, Marcelo E.; Irarrazaval, Pablo; Tejos, Cristián Calcium (Ca<sup>2+</sup>) waves data calibration and analysis using image processing techniques. *BMC Bioinformatics* 14 (2013), no. 162.
21. Bidaut-Véron, Marie-Françoise; García-Huidobro, Marta; **Yarur, Cecilia** Keller-Osserman estimates for some quasilinear elliptic systems. *Commun. Pure Appl. Anal.* 12 (2013), no. 4, 1547–1568.
22. Cortázar, Carmen; García-Huidobro, Marta; **Yarur, Cecilia S.** On the existence of sign changing bound state solutions of a quasilinear equation. *J. Differential Equations* 254 (2013), no. 6, 2603–2625.
23. Hernández Heredero, Rafael; **Reyes, Enrique G.** Nonlocal symmetries, compacton equations, and integrability. *Int. J. Geom. Methods Mod. Phys.* 10 (2013), no. 9, 1350046, 24 pp.
24. Eslami Rad, Anahita; **Reyes, Enrique G.** The Kadomtsev-Petviashvili hierarchy and the Mulase factorization of formal Lie groups. *J. Geom. Mech.* 5 (2013), no. 3, 345–364.
25. Górká, Przemysław; Kostrzewa, Tomasz; **Reyes, Enrique G.** The Rellich lemma on compact abelian groups and equations of infinite order. *Int. J. Geom. Methods Mod. Phys.* 10 (2013), no. 2, 1220030, 11 pp.
26. Górká, Przemysław; **Prado, Humberto**; **Reyes, Enrique G.** On a general class of nonlocal equations. *Ann. Henri Poincaré* 14 (2013), no. 4, 947–966.
27. **García, Galina**; Osses, Axel; Tapia, Marcelo A heat source reconstruction formula from single internal measurements using a family of null controls. *Journal of Inverse III-Posed Problems* 21 (2013), no. 6, 713-892.

28. **García, Galina**, Takahashi, T. Numerical observers with vanishing viscosity for the 1d wave equation. *Advances in Computational Mathematics* (2013), In Press.
29. Zamorano, S.; **Henríquez, H. R.** Feedback stabilization of abstract neutral linear control systems. *Math. Control Signals Systems* 25 (2013), no. 3, 345–386.
30. **Henríquez, Hernán R.**; Cuevas, Claudio; Caicedo, Alejandro Asymptotically periodic solutions of neutral partial differential equations with infinite delay. *Commun. Pure Appl. Anal.* 12(2013), no. 5, 2031–2068.
31. **Henríquez, Hernán**; Pierri, Michelle Approximate controllability of systems determined by almost sectorial operators. *Z. Anal. Anwend.* 32 (2013), no. 2, 199–214.
32. **Henríquez, Hernán R.**; Cuevas, Claudio Almost automorphy for abstract neutral differential equations via control theory. *Ann. Mat. Pura Appl.* (4) 192 (2013), no. 3, 393–405.
33. **Henriquez, Hernán R.**; Dos Santos, José Paulo C. Differentiability of solutions of abstract neutral integro-differential equations. *J. Integral Equations Appl.* 25 (2013), no. 1, 47–77.
34. **Henriquez, Hernán R.** Existence of solutions of nonautonomous abstract Cauchy problema of second order. *Semigroup Forum* 87 (2013), no. 2, 277–297.
35. **Ramos Quoirin, Humberto**; **Ubilla, Pedro** On some indefinite and non-powerlike elliptic equations. *Nonlinear Anal.* 79 (2013), 190–203.
36. **Ramos Quoirin, Humberto**; **Ubilla, Pedro** An indefinite and critical concave-convex-type equation. *Proc. Roy. Soc. Edinburgh Sect. A* 143 (2013), no. 1, 169–184.
37. Biler, Piotr; Espejo, Elio E.; **Guerra, Ignacio** Blowup in higher dimensional two species chemotactic systems. *Commun. Pure Appl. Anal.* 12 (2013), no. 1, 89–98.
38. Dávila, Juan; del Pino, Manuel; **Guerra, Ignacio** Non-uniqueness of positive ground states of non-linear Schrödinger equations. *Proc. Lond. Math. Soc.* (3) 106 (2013), no. 2, 318–344.
39. Castañeda, Álvaro; **Guiñez, Victor** Some results about global asymptotic stability. *Qual. Theory Dyn. Syst.* 12 (2013), no. 2, 427–441.
40. Amat, S.; Argyros, I. K.; Busquier, S.; Castro, R.; Hilout, S.; **Plaza, S.** On a bilinear operator free third order method on Riemannian manifolds. *Appl. Math. Comput.* 219 (2013), no. 14, 7429–7444.
41. Górká, P., Kurek, A., Lazarte, E., **Prado, Humberto** Parabolic flow on metric measure spaces. *Semigroup Forum* 88 (2013), no. 1, 129–144.
42. López-Kleine, L.; **Romeo, J.**; **Torres-Aviléz, F.** Gene functional prediction using clustering methods for the analysis of tomato

microarray data. *Advances in Intelligent Systems and Computing* 222 (2013), 7th International Conference on Practical Applications of Computational Biology & Bioinformatics, 1-7.

43. González-Rubio, N.; **Torres-Avilés, F.**; Carrasco, E.; Salas-Pérez, F.; Pérez-Bravo, F. Association of the incidence of type 1 diabetes mellitus with environmental factors in Chile during the period 200-2007. *Rev. Med. Chile* 141 (2013), 595-601.
44. **Romeo, J;** **Torres-Avilés, F.**; López-Kleine, L. Detection of influent virulence and resistance genes in microarray data quasi likelihood modeling. *Mol. Genet. Genomics* 288 (2013), 49-61.
45. Gellert, Uwe; Barbé, Joaquín, **Espinoza, Lorena** Towards a local integration of theories: codes and praxeologies in the case of computer-based instruction. *Educational Studies in Mathematics* 82 (2013), no. 2, 303-321.
46. **Romeo, José S.**; Tanaka, Nelson I.; Pedroso-de-Lima, Antonio C.; **Salinas-Torres, Victor H.** Large sample properties for a class of copulas in bivariate survival analysis. *Metrika* 76 (2013), no. 8, 997–1015.
47. **Romeo, J.S.**, Tanaka, N.I., Pedroso-de-Lima, A.C. and **Salinas-Torres, V.H.** Bayesian skew-probit regression for binary response data. *Brazilian Journal of Probability and Statistics*, In Press.
48. Soto-Pinto, Arellano-Baeza, **Guillermo Sánchez** A new code for automatic detection and analysis of the lineament patterns for geophysical and geological purposes (ADALGEO). *Computers & Geosciences* 57 (2013), 93-107.