

Trabalhos publicados

- 4.1 “Structural Stability and Hyperbolic Attractors”, *Transactions of the American Mathematical Society*, Vol. 252, pp. 205-219, 1979.
- 4.2 “An Example of Polynomial Interpolation of an Hyperbolic Attractor”, em *Lecture Notes in Mathematics*, Springer-Verlag, Vol. 1007, pp. 498-511, 1983.
- 4.3 “Bounded Random Perturbation of the Liapunov Number”, *Boletim da Sociedade Brasileira de Matemática*, Vol. 13, N^o 2, pp. 83-93, 1982.
- 4.4 “An Invariant Measure for Rational Maps”, em colaboração com Alexandre Freire e Ricardo Mañe. *Boletim da Sociedade Brasileira de Matemática*, Vol. 14, N^o 1, pp. 45-62, 1983.
- 4.5 “Equilibrium Measures for Rational Maps”, *Ergodic Theory and Dynamical Systems*, Vol. 6, Part 3, pp. 393-399, 1986.
- 4.6 “Orthogonality and the Hausdorff Dimension of the Maximal Measure”, *Proceedings of the American Mathematical Society*, Vol. 98, N^o 1, pp. 51-55, 1986.
- 4.7 “The Complex Potential Generated by the Maximal Measure for a Family of Rational Maps”, *Journal of Statistical Physics*, Vol. 52, N^o 5/6, pp. 571-575, 1988.
- 4.8 “A Note on delta-equilibrium Measures for Rational Maps”, *Mathematische Zeitschrift*, Vol. 202, N^o 2, pp. 261-269, 1989.
- 4.9 “The Dimension Spectrum of the Maximal Measure”, *SIAM Journal of Mathematical Analysis*, Vol. 20, N^o 5, pp. 1243-1254, 1989.
- 4.10 “An Analogy of The Charge Distribution on Julia Sets with the Brownian Motion”, *Journal of Mathematical Physics*, Vol. 30, N^o 9, pp. 2120-2124, 1989.
- 4.11 “Entropy and Large Deviation”, *NonLinearity*, Vol. 3, N^o 2, pp. 527-546, 1990.
- 4.12 “Dimension Spectra and a Mathematical Model for Phase Transition”, *Advances in Applied Mathematics*, Vol. 11, N^o 4, pp. 475-502, 1990.
- 4.13 “Dynamics of Real Polynomials on the Plane and Triple Point Phase Transition”, *Mathematical and Computer Modelling*, Vol. 13, N^o 9, pp. 17-32, 1990.
- 4.14 “A First-Order Level-2 Phase Transition in Thermodynamic Formalism”, *Journal of Statistical Physics*, Vol. 60, N^o 3/4, pp. 395-411, 1990.
- 4.15 “On the Dynamics of Real Polynomials on the Plane”, *Computers and Graphics*, Vol. 16, N^o 1, pp. 15-23, 1992.
- 4.16 “The Zeta Function and Non-Differentiability of Pressure”, *Publicaciones Matemáticas del Uruguay*, Vol. 5, pp. 37-44, 1992.
- 4.17 “The Zeta Function, Non-Differentiability of Pressure and The Critical Exponent of Transition”, *Advances in Mathematics*, Vol. 101, pp. 133-167, 1993.
- 4.18 “Weight-Balanced Measures and Free-Energy for one-dimensional Dynamics”, trabalho conjunto com W. Whithers, *Forum Mathematicum*, Vol. 5, pp. 161-182, 1993.
- 4.19 “Entropy, Pressure and Large Deviation”, *Cellular Automata, Dynamical Systems and Neural Networks*, E. Goles e S. Martinez (eds.), Kluwer, Massachusetts, pp. 79-146, 1994.

- 4.20 “Invariant Measure for the Gauss Map Associated with Interval Exchange Maps”, trabalho conjunto com L. F. da Rocha, *Indiana University Mathematics Journal*, Vol. 13, N. 4, pp. 1399-1438, 1994.
- 4.21 “Billiards and conditionally invariant probabilities”, trabalho conjunto com R. Markarian, *Resenhas, Revista do IME-USP*, Vol. 1, N. 4, pp. 421-439, 1994.
- 4.22 “Maximum Likelihood and Minimum Entropy Estimation of Grammars”, trabalho conjunto com P. Collet e Antonio Galves, *Random and Computational Dynamics* 3, pp. 421-256, 1995.
- 4.23 “Absolutely Continuous Invariant Measures for a Class of Affine Interval Exchange Maps”, trabalho conjunto com Z. Coelho e L. F. da Rocha, *Proceedings of the American Mathematical Society*, 123, N. 11, pp. 3533-3542, 1995.
- 4.34 “A billiard in the hyperbolic plane with decay of correlation of type n^{-2} ”, trabalho conjunto com M. Bauer, *Anais da Acad. Bras. de Ciências*, Vol. 68, N. 2, pp. 299, (1996).
- 4.25 “On the dimension of the predictive process of a memoryless channel”, trabalho conjunto com Sílvia Lopes, *Stochastic Analysis and Applications*, Vol. 14, N. 4, pp. 411-420 (1996).
- 4.26 “The Theta Group and the Continued Fraction Expansion with Even Partial Quotients”, trabalho conjunto com C. Kraaikamp, *Geometricae Dedicata*, 59, pp. 293-333, 1996.
- 4.27 “Open biliards: invariant and conditionally invariant probabilities on Cantor sets”, trabalho conjunto com R. Markarian, *SIAM Journal of Applied Mathematics*, Vol. 56, Issue 2, pp. 651-680, 1996.
- 4.28 “Spectral Analysis of Chaotic Transformations”, trabalho conjunto com Sílvia Lopes e R. R. Souza *REBRAPE - Revista Brasileira de Probabilidade e Estatística*, Vol. 10, pp. 151-179 (1996).
- 4.29 “Spectral Analysis of one-dimensional chaotic transformations”, trabalho conjunto com S. Lopes e R. Souza, *Random and Computational Dynamics Journal*, Vol. 3, N. 1, pp. 107-117 (1997).
- 4.30 “A billiard in the hyperbolic plane with decay of correlation of type n^{-2} ”, trabalho conjunto com M. Bauer, *Journal of Discrete and Continuous Dynamical Systems*, Vol. 3, N. 1, pp. 107-117 (1997).
- 4.31 “On generic properties of open billiards”, trabalho conjunto com D. Mauldin, *Journal of Mathematical Analysis and Applications*, Vol. 205, pp. 251-258 (1997).
- 4.32 “On the spectral density of a class of chaotic time series”, trabalho conjunto com S. Lopes e R. Souza, *Journal of Time Series Analysis*, Vol 18, N. 5, sept., pp. 465-474 (1997).
- 4.33 “Parametric estimation and Spectral Analysis of Chaotic Times Series”, trabalho conjunto com Sílvia Lopes, *Advances in Applied Probability*, Vol. 30, N. 3, pp. 757-776 (1998).
- 4.34 “A Level-2 Large Deviation principle for the auto-correlation of uniquely ergodic transformations with aditive noise”, trabalho conjunto com S. Carmona, C. Landin e S. Lopes, *Journal of Statistical Physics*, Vol. 91, N. 1/2, pp. 395-421 (1998).
- 4.35 “On the minimal action function of an autonomous Lagrangian associated with a

- magnetic phenomena”, trabalho conjunto com Mario Carneiro, *Annals Inst Henry Poincare - Anal Non-lin.* Vol. 16, N.6, pp 667-690 (1999).
- 4.36 “Self similar returning sets for some maps with an indifferent fixed point”, trabalho conjunto com A. Fisher, preprint (1998).
- 4.37 “Stable laws for some maps with an indifferent fixed point”, trabalho conjunto com A. Fisher, preprint (1998).
- 4.38 “Large Deviations for Expanding Transformations with Additive White Noise”, trabalho conjunto com S. Carmona, *Journ of Stat Phys*, 98, N 5-6, pp 1311-1333, (2000).
- 4.39 “The capacity-cost function of a hard-constrained channel”, trabalho conjunto com Marcos Craizer, *International Journal of Applied Math* , Vol 2, N 10, pp 1165-1180 (2000)
- 4.40 “Lyapunov Minimizing measures for expanding maps of the circle”, trabalho conjunto com G. Contreras e P. Thieullen, *Erg Theo and Dyn Syst* Vol 21, Issue 5, pp 1379-1409, (2001).
- 4.41 “Exact bounds for the polynomial decay of correlation, 1/f noise and the central limit theorem for a non-Holder Potential”, trabalho conjunto com A. Fisher, *Nonlinearity* Vol 14, Number 5, pp 1071-1104 (2001).
- 4.42 “ Subactions for Anosov Diffeomorphisms”, trabalho conjunto com P. Thieullen, *Asterisque*, volume 287, *Geometric Methods in Dynamics (II)* - pp 135-146 (2003).
- 4.43 “ C^* -Algebras, approximately proper equivalence relations, and Thermodynamic Formalism”, trabalho conjunto com R. Exel, *Erg. Theo. and Dyn. Systems*, Vol 24, pp 1051-1082 (2004)
- 4.44 “ Subactions for Anosov Flows”, A. Lopes and P. Thieullen, *Erg Theo and Dyn Systems*, Vol 25, pp 605-628 (2005)
- 4.45 “Convergence in distribution of the periodogram of chaotic systems”, A. Lopes and S. Lopes, *Stochastic and Dynamics*, Vol 2, n 4, pp 609-604 (2002)
- 4.46 “Mather Theory and the Bowen-Series transformation”, A. Lopes and P. Thieullen, *Annal. Inst Henry Poincaré, Anal Non-lin.* (2006)
- 4.47 “A large deviation principle for equilibrium states of Holder potentials: the zero temperature case”, A. Lopes, A. Baraviera and P. Thieullen, *Stochastics and Dynamics* Vol 26, N1, pp 77-96 (2006).
- 4.48 “Cohomology and Subcohomology problems for expansive, non Anosov geodesic flows”, A. Lopes, V. Rosas and R. Ruggiero, *Discrete and Continuous Dynamical Systems*, Volume: 17, N. 2, pp 403-422 (2007).
- 4.49 “Eigenfunctions of the Laplacian and eigenfunctions of the associated Ruelle operator”, A. Lopes and P. Thieullen, to appear in *Nonlinearity*.
- 4.50 “Functions for relative maximization”, G. Garibaldi e A. Lopes, *Dynamical Systems*, v. 22, 511-528, (2007)
- 4.51 “On the Aubry-Mather Theory for Symbolic Dynamics”, E. Garibaldi e A. O. Lopes, *Erg Theo and Dyn Systems*, Vol 28 , Issue 3, 791-815 (2008)
- 4.52 “Poncellet pairs and the Twist Map associated to the Poncellet Billiard”, A. O. Lopes e M. Sebastiani, preprint (2007)
- 4.53 “On separating sub-actions”, E. Garibaldi, A. O. Lopes e P. Thieullen, preprint (2006)
- 4.54 “Exponential decay of correlation for the Stochastic Process associated to the Entropy

- Penalized Method”, D. Gomes and A. Lopes, preprint (2007) to appear in *São Paulo Journal of of Mathematical Sciences* (USP)
- 4.55 “The Mather measure and a Large Deviation Principle for the Entropy Penalized Method”, D. Gomes, A. Lopes and J. Mohr, preprint (2007)
- 4.56 “C*-Algebras and Thermodynamic Formalism”, R. Exel and A. Lopes, to appear in *São Paulo Journal of Mathematical Sciences* (USP) (2007)
- 4.56 ”A Ruelle Operator for continuous time Markov Chains”, trabalho conjunto com A. Baraviera e R. Exel,
- 4.57 ”Negative Entropy, Pressure and Zero temperature: a L.D.P. for stationary Markov Chains on $[0, 1]$ ” trabalho conjunto com J. Mohr, R. R. Souza e Ph. Thieullen (2008)
- 4.58 ”Renormalization for a Class of Dynamical Systems: some Local and Global Properties” trabalho conjunto com Alexandre Baraviera e Renaud Leplaideur (2008).
- 4.59 ”Entropy and Variational principles for holonomic probabilities of IFS”, trabalho conjunto com Elismar Oliveira, to appear in *Discrete and Continuous Dynamical Systems* (2009) Serie A
- 4.60 ”The Dual Potential, the W -kernel and Transport in Ergodic Optimization” trabalho conjunto com E. Oliveira e Ph. Thieullen (2008)
- 4.61 ”Mini-max probabilities for Aubry-Mather Problems” trabalho conjunto com Diogo A. Gomes and Nara Jung.
- 4.61 ”KMS States, Entropy and a Variational Principle for Pressure”, trabalho conjunto G. Castro (2007)