

Trabalhos Científicos de Jacob Palis

1. J. Palis. On Morse-Smale diffeomorphisms. *Bull. Amer. Math. Soc.*, 74:985–987, 1968.
2. J. Palis. On Morse-Smale dynamical systems. *Topology*, 8:385–404, 1968.
3. J. Palis. On the local structure of hyperbolic points in Banach spaces. *An. Acad. Brasil. Ci.*, 40:263–266, 1968.
4. M. Hirsch, J. Palis, C. Pugh, and M. Shub. Neighborhoods of hyperbolic sets. *Invent. Math.*, 9:121–134, 1969/1970.
5. J. Palis and S. Smale. Structural stability theorems. In *Global Analysis (Proc. Sympos. Pure Math., Vol. XIV, Berkeley, Calif., 1968)*, pages 223–231. Amer. Math. Soc., Providence, R.I., 1970.
6. J. Palis. A note on Ω -stability. In *Global Analysis (Proc. Sympos. Pure Math., Vol. XIV, Berkeley, Calif., 1968)*, pages 221–222. Amer. Math. Soc., Providence, R.I., 1970.
7. J. Palis. Ω -explosions. *Bulletin of the Brazilian Mathematical Society*, 1:55–57, 1970.
8. J. Palis. Ω -stability and explosions. In *Lecture Notes in Mathematics, 1206*, pages 40–42. Springer-Verlag, 1971.
9. J. Palis. Ω -explosions. *Proc. Amer. Math. Soc.*, 27:85–90, 1971.
10. J. Palis, editor. *Sistemas Dinâmicos (Portuguese)*. IMPA, 1971.

11. S. Newhouse and J. Palis. Hyperbolic nonwandering sets on two-dimensional manifolds. In *Dynamical systems (Proc. Sympos., Univ. Bahia, Salvador, 1971)*, pages 293–301, New York, 1973. Academic Press.
12. S. Newhouse and J. Palis. Bifurcations of Morse-Smale dynamical systems. In *Dynamical systems (Proc. Sympos., Univ. Bahia, Salvador, 1971)*, pages 303–366, New York, 1973. Academic Press.
13. J. Palis. Vector fields generate few diffeomorphisms. *Bull. Amer. Math. Soc.*, 80:503–505, 1974.
14. J. Palis, C. Pugh, and R. C. Robinson. Nondifferentiability of invariant foliations. In *Dynamical systems—Warwick 1974 (Proc. Sympos. Appl. Topology and Dynamical Systems, Univ. Warwick)*, pages 234–240. Lecture Notes in Math., Vol. 468, Berlin, 1975. Springer.
15. J. Palis, C. Pugh, M. Shub, and D. Sullivan. Genericity theorems in topological dynamics. In *Dynamical systems—Warwick 1974 (Proc. Sympos. Appl. Topology and Dynamical Systems, Univ. Warwick)*, pages 241–250, Lecture Notes in Math., Vol. 468, Berlin, 1975. Springer.
16. J. Palis and C. C. Pugh, editors. *Fifty problems in dynamical systems*. Springer, Berlin, 1975.
17. J. Palis. Arcs of dynamical systems: bifurcations and stability. In *Lecture Notes in Mathematics, 468*, pages 48–53. Springer-Verlag, 1975.
18. J. Palis. The Moinho Santista Prize in Mathematics. *Bol. Soc. Brasil. Mat.*, 7(2):85–87, 1976.
19. S. Newhouse and J. Palis. Cycles and bifurcation theory. *Astérisque*, 31:43–140, 1976.
20. S. Newhouse, J. Palis, and F. Takens. Stable arcs of diffeomorphisms. *Bull. Amer. Math. Soc.*, 82(3):499–502, 1976.

21. C. Camacho, N. H. Kuiper, and J. Palis. La topologie du feuilletage d'un champ de vecteurs holomorphes près d'une singularité. *C. R. Acad. Sci. Paris Sér. A-B*, 282(17):Ai, A959–A961, 1976.
22. J. Palis and F. Takens. Topological equivalence of normally hyperbolic dynamical systems. *Topology*, 16(4):335–345, 1977.
23. J. Palis. Some developments on stability and bifurcations. In *Geometry and topology (Proc. III Latin Amer. School of Math., Inst. Mat. Pura Aplicada CNPq, Rio de Janeiro, 1976)*, pages 495–509. Lecture Notes in Math., Vol. 597, Berlin, 1977. Springer.
24. J. Palis and M. do Carmo, editors. *Geometry and topology*. Springer-Verlag, Berlin, 1977. Lecture Notes in Mathematics, Vol. 597.
25. J. Palis and W. de Melo. *Introdução aos sistemas dinâmicos*. Instituto de Matemática Pura e Aplicada, Rio de Janeiro, 1978.
26. C. Camacho, N. H. Kuiper, and J. Palis. The topology of holomorphic flows with singularity. *Inst. Hautes Études Sci. Publ. Math.*, 48:5–38, 1978.
27. J. Palis. Rigidity of the centralizers of diffeomorphisms and structural stability of suspended foliations. In *Differential topology, foliations and Gelfand-Fuks cohomology (Proc. Sympos., Pontifícia Univ. Católica, Rio de Janeiro, 1976)*, pages 114–121. Springer, Berlin, 1978.
28. J. Palis. Dynamical systems. In *Proceedings of the Tenth Brazilian Mathematical Colloquium (Poços de Caldas, 1975)*, Vol. I (Portuguese), pages 69–75. Cons. Nac. Desenvolvimento Ci. Tec., Inst. Mat. Pura Apl., Rio de Janeiro, 1978.
29. J. Palis. Invariantes de conjugação e módulos de estabilidade dos sistemas dinâmicos. In *Proceedings of the XI Brazilian Mathematical Colloquium*, 1978.
30. J. Palis. A differentiable invariant of topological conjugacies and moduli of stability. *Astérisque*, 51:335–346, 1978.

31. J. Palis. Moduli of stability and bifurcation theory. In *Proceedings of the International Congress of Mathematicians (Helsinki, 1978)*, pages 835–839, Helsinki, 1980. Acad. Sci. Fennica.
32. W. de Melo and J. Palis. Moduli of stability for diffeomorphisms. In *Global theory of dynamical systems (Proc. Internat. Conf., Northwestern Univ., Evanston, Ill., 1979)*, pages 318–339. Springer, Berlin, 1980.
33. W. de Melo, J. Palis, and S. J. van Strien. Characterising diffeomorphisms with modulus of stability one. In *Dynamical systems and turbulence, Warwick 1980 (Coventry, 1979/1980)*, pages 266–285. Springer, Berlin, 1981.
34. I. P. Malta and J. Palis. Families of vector fields with finite modulus of stability. In *Dynamical systems and turbulence, Warwick 1980 (Coventry, 1979/1980)*, pages 212–229. Springer, Berlin, 1981.
35. J. Palis and W. de Melo. *Geometric theory of dynamical systems*. Springer-Verlag, New York, 1982. An introduction, Translated from the Portuguese by A. K. Manning.
36. S. Newhouse, J. Palis, and F. Takens. Bifurcations and stability of families of diffeomorphisms. *Inst. Hautes Études Sci. Publ. Math.*, 57:5–71, 1983.
37. J. Palis, editor. *Geometric dynamics*, Berlin, 1983. Springer-Verlag.
38. J. Palis and F. Takens. Stability of parametrized families of gradient vector fields. *Ann. of Math. (2)*, 118(3):383–421, 1983.
39. J. Palis. A note on the inclination lemma (λ -lemma) and Feigenbaum's rate of approach. In *Geometric dynamics (Rio de Janeiro, 1981)*, pages 630–635. Springer, Berlin, 1983.
40. J. Palis. The dynamics of a diffeomorphism and the rigidity of its centralizer. In *Singularities and dynamical systems (Iraklion, 1983)*, pages 15–21. North-Holland, Amsterdam, 1985.

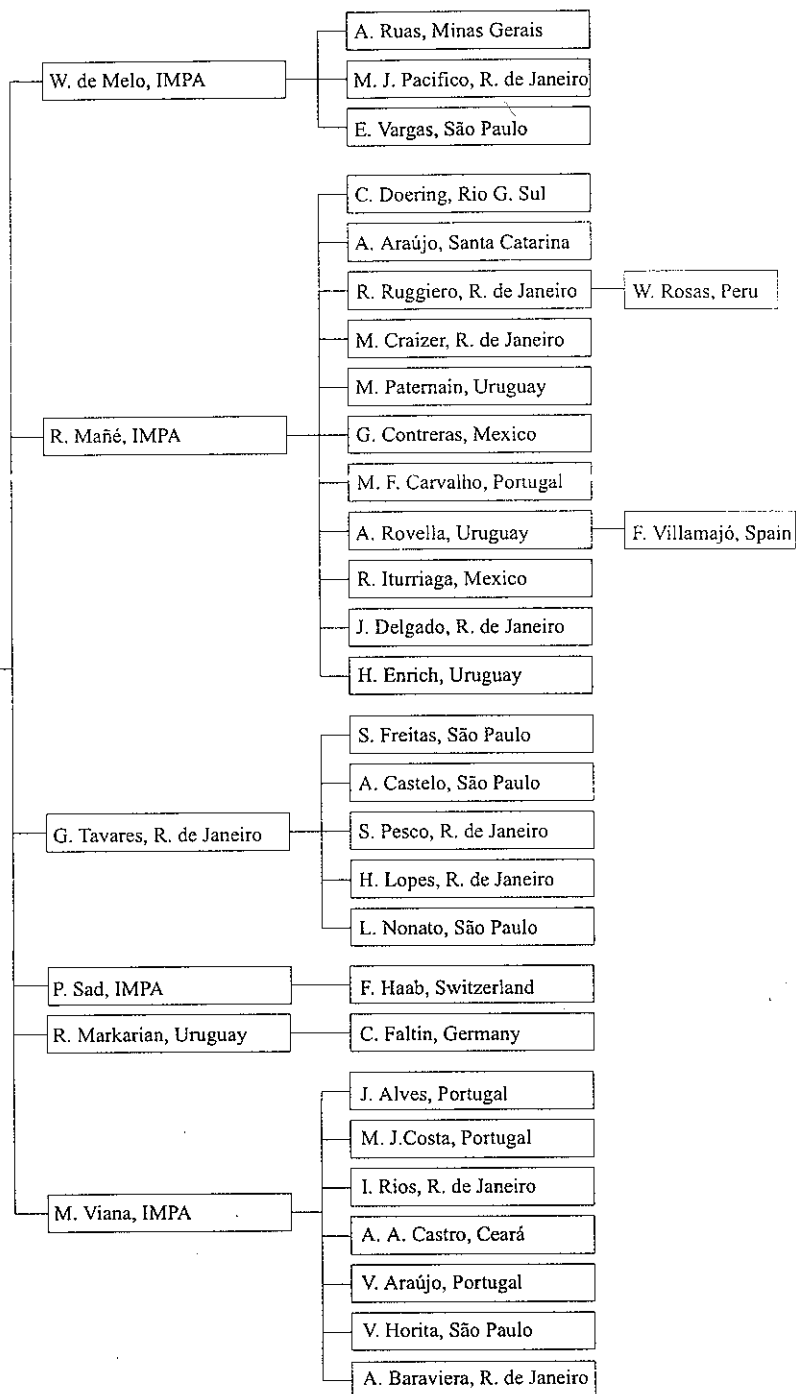
41. J. Palis and R. Roussarie. Topological invariants as numbers of translation. In *Dynamical systems and bifurcations (Groningen, 1984)*, pages 64–86. Springer, Berlin, 1985.
42. J. Palis and F. Takens. Cycles and measure of bifurcation sets for two-dimensional diffeomorphisms. *Invent. Math.*, 82(3):397–422, 1985.
43. Zh. Palis and V. di Melu. *Geometricheskaya teoriya dinamicheskikh sistem*. “Mir”, Moscow, 1986. Vvedenie. [An introduction], Translated from the English by V. N. Kolokoltsov, Translation edited and with notes and an afterword by D. V. Anosov.
44. J. Palis. Homoclinic orbits, hyperbolic dynamics and dimension of Cantor sets. In *The Lefschetz centennial conference, Part III (Mexico City, 1984)*, pages 203–216. Amer. Math. Soc., Providence, R.I., 1987.
45. J. Palis. Dimensões fracionárias de conjuntos de Cantor e dinâmica hiperbólica. In *Proceedings of the XV Brazilian Mathematical Colloquium*, pages 341–353, 1987.
46. J. Palis and F. Takens. Hyperbolicity and the creation of homoclinic orbits. *Ann. of Math. (2)*, 125(2):337–374, 1987.
47. J. Palis and F. Takens. *Homoclinic bifurcations and hyperbolic dynamics*. Instituto de Matemática Pura e Aplicada, Rio de Janeiro, 1987.
48. J. Palis. On the solution of the C^1 stability conjecture (Mañé) and Ω -stability conjecture. In *Proceedings of the XVI Brazilian Mathematical Colloquium*, pages 599–606, 1988.
49. J. Palis and M. Viana. On the continuity of Hausdorff dimension and limit capacity for horseshoes. In *Dynamical systems, Valparaiso 1986*, pages 150–160. Springer, Berlin, 1988.
50. R. Bamón, R. Labarca, and J. Palis, editors. *Dynamical systems*, volume 1331 of *Lecture Notes in Mathematics*, Berlin, 1988. Springer-Verlag.

51. J. Palis. On the C^1 Ω -stability conjecture. *Inst. Hautes Études Sci. Publ. Math.*, 66:211–215, 1988.
52. J. Palis. On the solution of the stability conjecture and the Ω -stability conjecture. In *IXth International Congress on Mathematical Physics (Swansea, 1988)*, pages 469–471. Hilger, Bristol, 1989.
53. J. Palis and J.-C. Yoccoz. Rigidity of centralizers of diffeomorphisms. *Ann. Sci. École Norm. Sup. (4)*, 22(1):81–98, 1989.
54. J. Palis and J.-C. Yoccoz. Centralizers of Anosov diffeomorphisms on tori. *Ann. Sci. École Norm. Sup. (4)*, 22(1):99–108, 1989.
55. J. Palis. Homoclinic bifurcation and fractional dimensions. *Publicaciones Matemáticas del Uruguay*, 1:55–66, 1989.
56. J. Palis. Gradient flows. In *Stability theory and related topics in dynamical systems (Nagoya, 1988)*, pages 142–144. World Sci. Publishing, Teaneck, NJ, 1989.
57. J. Palis. Sistemas caóticos ou turbulentos, atratores e bifurcações homoclínicas (Portuguese). *Revista Matemática Universitária*, 10:167–192, 1989.
58. M. J. Dias Carneiro and J. Palis. Bifurcations and global stability of families of gradients. *Inst. Hautes Études Sci. Publ. Math.*, 70:103–168 (1990), 1989.
59. J. Palis. Centralizers of diffeomorphisms. In *Workshop on Dynamical Systems (Trieste, 1988)*, pages 19–22. Longman Sci. Tech., Harlow, 1990.
60. J. Palis and J.-C. Yoccoz. Differentiable conjugacies of Morse-Smale diffeomorphisms. *Bol. Soc. Brasil. Mat. (N.S.)*, 20(2):25–48, 1990.
61. J. Palis. Homoclinic bifurcations, sensitive-chaotic dynamics and strange attractors. In *Dynamical systems and related topics (Nagoya, 1990)*, pages 466–472. World Sci. Publishing, River Edge, NJ, 1991.

62. J. Palis. A glimpse at dynamical systems: the long trajectory from the sixties to present developments. In *Proceedings of the TWAS, 1992*. Prize talk at the Third World Academy of Sciences.
63. J. Palis. New developments in dynamics: hiperbolicity and chaotic dynamics. In *Chaos, resonance and collective dynamical phenomena in the solar systems*, pages 363–369. International Astron. Union, Kluwer Acad. Publ., 1992.
64. R. Bamón, R. Labarca, J. Lewowicz, and J. Palis, editors. *Dynamical systems*, volume 285 of *Pitman Research Notes in Mathematics*, Harlow, 1993. Longman Scientific & Technical.
65. J. Palis and F. Takens. *Hyperbolicity and sensitive chaotic dynamics at homoclinic bifurcations*. Cambridge University Press, Cambridge, 1993. Fractal dimensions and infinitely many attractors.
66. J. Palis. On the contribution of Smale to dynamical systems. In *From Topology to Computation: Proceedings of the Smalefest (Berkeley, CA, 1990)*, pages 165–178, New York, 1993. Springer.
67. J. Palis and J.-C. Yoccoz. Homoclinic tangencies for hyperbolic sets of large Hausdorff dimension. *Acta Math.*, 172(1):91–136, 1994.
68. J. Palis and M. Viana. High dimension diffeomorphisms displaying infinitely many periodic attractors. *Ann. of Math. (2)*, 140(1):207–250, 1994.
69. J. Palis. A view on chaotic dynamical systems. *Brazilian Journal of Physics*, 24:926–930, 1994.
70. J. Palis. Chaotic and complex systems. *Science International*, 58, November:27–31, 1995.
71. J. Palis. A view on chaotic dynamical systems. In *Dynamical systems and chaos, Vol. 1 (Hachioji, 1994)*, pages 217–225. World Sci. Publishing, River Edge, NJ, 1995.

72. J. Palis. From dynamical stability and hyperbolicity to finitude of ergodic attractors. In *Proceedings of the Third World Academy of Sciences, 11th General Conference, Italy, 1996*.
73. J. Palis and J.-C. Yoccoz. On the arithmetic sum of regular Cantor sets. *Ann. Inst. H. Poincaré Anal. Non Linéaire*, 14(4):439–456, 1997.
74. J. Palis. Sistemas caóticos e sistemas complexos (Portuguese). In *Caos e complexidade*, pages 27–38. Editora UFRJ, 1999.
75. J. Palis. Uncertainty-chaos in dynamics, a global view. In *Proceedings of 10th General Meeting*, pages 33–38, 1999. Medal Lecture Third World Academy of Sciences.
76. J. Palis. A global view of dynamics and a conjecture on the denseness of finitude of attractors. *Astérisque*, 261:xiii–xiv, 335–347, 2000. *Géométrie complexe et systèmes dynamiques* (Orsay, 1995).
77. J. Palis and J. C. Yoccoz. Nonuniformly hyperbolic horseshoes unleashed by homoclinic bifurcations and zero density of attractors. *C. R. Ac. Sc. Paris*, 2000. To appear.
78. M. J. Dias Carneiro and J. Palis. On the codimension of gradients with umbilic singularity. Preprint.
79. C. G. Moreira, J Palis, and M. Viana. Fractal invariants and homoclinic bifurcations in arbitrary dimension. In preparation.

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