

## Liste de mes publications de 1985 à aujourd'hui (*List of my publications 1985- today*)

**dernière nouvelle** : la référence 9 avec Katsutoshi Shinohara vient d'être acceptée à **Inventiones** (19 septembre 2024). (*latest news: reference 9 with Katsutoshi Shinohara is accepted for publication at Inventiones (2024 september 19<sup>th</sup>)*).

1. Bonatti, Christian; Carnevale, João; Triestino, Michele *Non-locally discrete actions on the circle with at most  $N$  fixed points*. **Math. Z.** 307, No. 1, Paper No. 6, 18 p. (2024).
2. Barthelmé, Thomas; Bonatti, Christian; Mann, Kathryn *Promoting Prelaminations*. Preprint [ArXiv:2406.18917](https://arxiv.org/abs/2406.18917) (2024)
3. Bonatti, Christian; Diaz, Lorenzo J.; Gelfert, Katrin *Heterodimensional cycles of hyperbolic ergodic measures*. Preprint, [ArXiv:2405.12686](https://arxiv.org/abs/2405.12686) (2024).
4. Bonatti, Christian; Iakovoglou, Ioannis *Anosov flows on 3-manifolds: the surgeries and the foliations*. **Ergodic Theory Dyn. Syst.** 43, No. 4, 1129-1188 (2023).
5. M. A. Bertolim, C. Bonatti, M. P. Mello, G. M. Vago. *Minimal number of periodic orbits for nonsingular Morse-Smale flows in odd dimension*. (2023). Preprint [hal-02946281v2](https://arxiv.org/abs/2301.04530) accepted for publication at **Fundamenta Math.**
6. Bonatti, Christian *Action on the circle at infinity of foliations of  $\mathbb{R}^2$*  arXiv:2301.04530 (2023) **Enseign. Math.** (2024), published online first [DOI 10.4171/LEM/1086](https://doi.org/10.4171/LEM/1086)
7. Alanís-López, L.; Artal, E.; Bonatti, C.; Gómez-Mont, X.; González Villa, M.; Portilla Cuadrado, P. *On a quadratic form associated with a surface automorphism and its applications to singularity theory*. **Indag. Math.**, New Ser. 33, No. 4, 816-843 (2022).
8. Asaoka, Masayuki; Bonatti, Christian; Marty, Théo *Oriented Birkhoff sections of Anosov flows*. Preprint, [ArXiv:2212.06483](https://arxiv.org/abs/2212.06483) (2022) (accepted for publication in **J. of Topology**)
9. Bonatti, Christian; Shinohara, Katsutoshi *Aperiodic chain recurrence classes of  $C^1$ -generic diffeomorphisms*. Preprint, [ArXiv:2209.13249](https://arxiv.org/abs/2209.13249) (2022). Accepted at **Invent. Math.**
10. Bonatti, Christian; Shinohara, Katsutoshi *A mechanism for ejecting a horseshoe from a partially hyperbolic chain recurrence class*. [ArXiv:2209.13245](https://arxiv.org/abs/2209.13245) **Ergodic Theory and Dynamical Systems**. Published online 2023:1-63. doi:10.1017/etds.2023.76
11. Bonatti, Christian; Díaz, Lorenzo J.; Kwietniak, Dominik *Robust existence of nonhyperbolic ergodic measures with positive entropy and full support*. **Ann. Sc. Norm. Super. Pisa, Cl. Sci.** (5) 22, No. 4, 1643-1672 (2021).
12. Bonatti, Christian; Da Luz, Adriana *Star flows and multisingular hyperbolicity*. **J. Eur. Math. Soc. (JEMS)** 23, No. 8, 2649-2705 (2021).
13. Bonatti, Christian; Pinsky, Tali *Lorenz attractors and the modular surface*. **Nonlinearity** 34, No. 6, 4315-4331 (2021).
14. Barthelmé, Thomas; Bonatti, Christian; Gogolev, Andrey; Rodriguez Hertz, Federico *Anomalous Anosov flows revisited*. **Proc. Lond. Math. Soc.** (3) 122, No. 1, 93-117 (2021).
15. Barros, Diego; Bonatti, Christian; Pacifico, Maria Jose *Upper, down, two-sided Lorenz attractor, collisions, merging and switching*. ArXiv:2101.07391 **Ergodic Theory and Dynamical Systems**. Published online 2024:1-45. doi:10.1017/etds.2024.8

16. Bonatti, Christian; Eskin, Alex; Wilkinson, Amie *Projective cocycles over  $SL(2, \mathbb{R})$  actions: measures invariant under the upper triangular group*. Crovisier, Sylvain (ed.) et al., Some aspects of the theory of dynamical systems: a tribute to Jean-Christophe Yoccoz. Volume I. Paris: Société Mathématique de France (SMF). **Astérisque** 415, 157-180 (2020).
17. Bonatti, Christian; Kim, Sang-hyun; Koberda, Thomas; Triestino, Michele *Small  $C^1$  actions of semidirect products on compact manifolds*. **Algebr. Geom. Topol.** 20, No. 6, 3183-3203 (2020).
18. Bonatti, Christian; Gogolev, Andrey; Hammerlindl, Andy; Potrie, Rafael *Anomalous partially hyperbolic diffeomorphisms. III: Abundance and incoherence*. **Geom. Topol.** 24, No. 4, 1751-1790 (2020).
19. Bonatti, Christian; Zhang, Jinhua *Transitive partially hyperbolic diffeomorphisms with one-dimensional neutral center*. **Sci. China, Math.** 63, No. 9, 1647-1670 (2020).
20. Alvarez, Sébastien; Bonatti, Christian; Santiago, Bruno *Existence of common zeros for commuting vector fields on 3-manifolds. II. Solving global difficulties*. **Proc. Lond. Math. Soc.** (3) 121, No. 4, 828-875 (2020).
21. Bonatti, Christian; Bowden, Jonathan; Potrie, Rafael *Some remarks on projective Anosov flows in hyperbolic 3-manifolds*. Wood, David R. (ed.) et al., 2018 MATRIX annals. Cham: Springer. **MATRIX Book** Ser. 3, 359-369 (2020).
22. Bonatti, Christian; Gómez-Mont, Xavier; Martínez, Matilde *Foliated hyperbolicity and foliations with hyperbolic leaves*. **Ergodic Theory Dyn. Syst.** 40, No. 4, 881-903 (2020).
23. Bonatti, Christian; Minkov, Stanislav; Okunev, Alexey; Shilin, Ivan *Anosov diffeomorphism with a horseshoe that attracts almost any point*. **Discrete Contin. Dyn. Syst.** 40, No. 1, 441-465 (2020).
24. Bonatti, C.; Grines, V.; Pochinka, O. *Topological classification of Morse-Smale diffeomorphisms on 3-manifolds*. **Duke Math. J.** 168, No. 13, 2507-2558 (2019).
25. Bonatti, Christian; Zhang, Jinhua *On the existence of non-hyperbolic ergodic measures as the limit of periodic measures*. **Ergodic Theory Dyn. Syst.** 39, No. 11, 2932-2967 (2019).
26. Bonatti, Christian; Lodha, Yash; Triestino, Michele *Hyperbolicity as an obstruction to smoothability for one-dimensional actions*. **Geom. Topol.** 23, No. 4, 1841-1876 (2019).
27. Bonatti, Ch.; Grines, V.; Laudenbach, F.; Pochinka, O. *Topological classification of Morse-Smale diffeomorphisms without heteroclinic curves on 3-manifolds*. **Ergodic Theory Dyn. Syst.** 39, No. 9, 2403-2432 (2019).
28. Bonatti, Christian; Zhang, Jinhua *Periodic measures and partially hyperbolic homoclinic classes*. **Trans. Am. Math. Soc.** 372, No. 2, 755-802 (2019).
29. Bonatti, Christian; Díaz, Lorenzo J.; Bochi, Jairo *A criterion for zero averages and full support of ergodic measures*. **Mosc. Math. J.** 18, No. 1, 15-61 (2018).
30. Bonatti, Christian; da Luz, Adriana *Weak hyperbolic structures and robust properties of diffeomorphisms and flows*. Mehrmann, Volker (ed.) et al., European congress of mathematics. Proceedings of the 7th ECM (7ECM) congress, Berlin, Germany, July 18–22, 2016. Zürich: **European Mathematical Society** (EMS) (ISBN 978-3-03719-176-7/hbk; 978-3-03719-676-2/ebook). 389-405 (2018).

31. Bochi, Jairo; Bonatti, Christian; Gelfert, Katrin *Dominated Pesin theory: convex sum of hyperbolic measures*. **Isr. J. Math.** 226, No. 1, 387-417 (2018).
32. Bonatti, Christian; Potrie, Rafael *Many intermingled basins in dimension 3*. **Isr. J. Math.** 224, 293-314 (2018).
33. Bonatti, Christian; Shinohara, Katsutoshi *Volume hyperbolicity and wildness*. **Ergodic Theory Dyn. Syst.** 38, No. 3, 886-920 (2018).
34. Bonatti, Christian; Santiago, Bruno *Existence of common zeros for commuting vector fields on three manifolds*. **Ann. Inst. Fourier** 67, No. 4, 1741-1781 (2017).
35. Bonatti, C.; Minkov, S. S.; Okunev, A. V.; Shilin, I. S. *A  $C^1$ Anosov diffeomorphism with a horseshoe that attracts almost any point*. **Funct. Anal. Appl.** 51, No. 2, 144-147 (2017); translation from *Funkts. Anal. Prilozh.* 51, No. 2, 83-86 (2017).
36. Bonatti, Ch.; Grines, V. Z.; Pochinka, Olga V. *Realization of Morse-Smale diffeomorphisms on 3-manifolds*. **Proc. Steklov Inst. Math.** 297, 35-49 (2017); translation from *Tr. Mat. Inst. Steklova* 297, 46-61 (2017).
37. Bonatti, C.; Monteverde, Ignacio; Navas, Andres; Rivas, Cristobal *Rigidity for  $C^1$  actions on the interval arising from hyperbolicity. I: Solvable groups*. **Math. Z.** 286, No. 3-4, 919-949 (2017).
38. Bonatti, Christian; Zhang, Jinhua *Transverse foliations on the torus  $\mathbb{T}^2$  and partially hyperbolic diffeomorphisms on 3-manifolds*. **Comment. Math. Helv.** 92, No. 3, 513-550 (2017).
39. Béguin, François; Bonatti, Christian; Yu, Bin *Building Anosov flows on 3-manifolds*. **Geom. Topol.** 21, No. 3, 1837-1930 (2017).
40. Bonatti, Christian; Eynard-Bontemps, H el ene *Connectedness of the space of smooth actions of  $\mathbb{Z}^n$  on the interval*. **Ergodic Theory Dyn. Syst.** 36, No. 7, 2076-2106 (2016).
41. Bonatti, Christian; Crovisier, Sylvain *Center manifolds for partially hyperbolic sets without strong unstable connections*. **J. Inst. Math. Jussieu** 15, No. 4, 785-828 (2016).
42. Bonatti, Christian; Parwani, Kamlesh; Potrie, Rafael *Anomalous partially hyperbolic diffeomorphisms. I: Dynamically coherent examples*. **Ann. Sci.  c. Norm. Sup er.** (4) 49, No. 6, 1387-1402 (2016).
43. Bonatti, Ch.; Crovisier, S.; D iaz, L. J.; Wilkinson, A. *What is ...a blender?* **Notices Am. Math. Soc.** 63, No. 10, 1175-1178 (2016).
44. Bonatti, Christian; Gogolev, Andrey; Potrie, Rafael *Anomalous partially hyperbolic diffeomorphisms. II: Stably ergodic examples*. **Invent. Math.** 206, No. 3, 801-836 (2016).
45. Bochi, Jairo; Bonatti, Christian; D iaz, Lorenzo J. *Robust criterion for the existence of nonhyperbolic ergodic measures*. **Commun. Math. Phys.** 344, No. 3, 751-795 (2016).
46. Bohnet, Doris; Bonatti, Christian *Partially hyperbolic diffeomorphisms with a uniformly compact center foliation: the quotient dynamics*. **Ergodic Theory Dyn. Syst.** 36, No. 4, 1067-1105 (2016).
47. Beguin, F.; Bonatti, C.; Yu, B. *A spectral-like decomposition for transitive Anosov flows in dimension three*. **Math. Z.** 282, No. 3-4, 889-912 (2016).

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49. Bonatti, Christian; Shinohara, Katsutoshi *Flexible periodic points*. **Ergodic Theory Dyn. Syst.** 35, No. 5, 1394-1422 (2015).
50. Bonatti, Christian; Gan, Shaobo; Yang, Dawei *Dominated chain recurrent class with singularities*. (English) **Ann. Sc. Norm. Super. Pisa**, Cl. Sci. (5) 14, No. 1, 83-99 (2015).
51. Bonatti, C.; Crovisier, S.; Gourmelon, N.; Potrie, R. *Tame dynamics and robust transitivity chain-recurrence classes versus homoclinic classes*. **Trans. Am. Math. Soc.** 366, No. 9, 4849-4871 (2014).
52. Bonatti, Christian; Guelman, Nancy *Smooth conjugacy classes of circle diffeomorphisms with irrational rotation number*. **Fundam. Math.** 227, No. 2, 129-162 (2014).
53. Bochi, Jairo; Bonatti, Christian; Díaz, Lorenzo J. *Robust vanishing of all Lyapunov exponents for iterated function systems*. **Math. Z.** 276, No. 1-2, 469-503 (2014).
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56. Bonatti, Ch.; Crovisier, S.; Díaz, L. J.; Gourmelon, N. *Internal perturbations of homoclinic classes: non-domination, cycles, and self-replication*. **Ergodic Theory Dyn. Syst.** 33, No. 3, 739-776 (2013).
57. Bonatti, Christian; Li, Ming; Yang, Dawei *On the existence of attractors*. **Trans. Am. Math. Soc.** 365, No. 3, 1369-1391 (2013).
58. Bonatti, Christian; Díaz, Lorenzo J. *Abundance of  $C^1$ -robust homoclinic tangencies*. **Trans. Am. Math. Soc.** 364, No. 10, 5111-5148 (2012).
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61. Bonatti, Ch.; Díaz, L. J. *Fragile cycles*. **J. Differ. Equations** 252, No. 7, 4176-4199 (2012).
62. Abdenur, Flavio; Bonatti, Christian; Crovisier, Sylvain *Nonuniform hyperbolicity for  $C^1$ -generic diffeomorphisms*. **Isr. J. Math.** 183, 1-60 (2011).
63. Bonatti, C. *Towards a global view of dynamical systems, for the  $C^1$ -topology*. **Ergodic Theory Dyn. Syst.** 31, No. 4, 959-993 (2011).
64. Bonatti, C.; Hattab, H.; Salhi, E.; Vago, G. *Hasse diagrams and orbit class spaces*. **Topology Appl.** 158, No. 6, 729-740 (2011).
65. Bonatti, C.; Hattab, H.; Salhi, E. *Quasi-orbit spaces associated to  $T^0$ -spaces*. **Fundam. Math.** 211, No. 3, 267-291 (2011).

66. Bonatti, Christian; Guelman, Nancy *Axiom A diffeomorphisms derived from Anosov flows*. **J. Mod. Dyn.** 4, No. 1, 1-63 (2010).
67. Bonatti, Christian; Díaz, Lorenzo J.; Gorodetski, Anton *Non-hyperbolic ergodic measures with large support*. **Nonlinearity** 23, No. 3, 687-705 (2010).
68. Bonatti, Ch.; Gómez-Mont, X.; Vila-Freyer, R. *Statistical behaviour of the leaves of Riccati foliations*. **Ergodic Theory Dyn. Syst.** 30, No. 1, 67-96 (2010).
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70. Bonatti, Christian; Guelman, Nancy *Transitive Anosov flows and Axiom-A diffeomorphisms*. **Ergodic Theory Dyn. Syst.** 29, No. 3, 817-848 (2009).
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72. Bonatti, Christian; Paris, Luis *Roots in the mapping class groups*. **Proc. Lond. Math. Soc.** (3) 98, No. 2, 471-503 (2009).
73. Bonatti, C.; Paoluzzi, L. *3-manifolds which are orbit spaces of diffeomorphisms*. **Topology** 47, No. 2, 71-100 (2008).
74. Bonatti, Christian; Crovisier, Sylvain; Vago, Gioia M.; Wilkinson, Amie *Local density of diffeomorphisms with large centralizers*. **Ann. Sci. Éc. Norm. Supér.** (4) 41, No. 6, 925-954 (2008).
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76. Bonatti, Christian; Díaz, Lorenzo J. *Robust heterodimensional cycles and  $C^1$ -generic dynamics*. **J. Inst. Math. Jussieu** 7, No. 3, 469-525 (2008).
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78. Bonatti, Christian; Crovisier, Sylvain; Wilkinson, Amie *The centralizer of a  $C^1$ -generic diffeomorphism is trivial*. **Electron. Res. Announc. Math. Sci.** 15, 33-43 (2008).
79. Bonatti, C.; Grines, V. Z.; Medvedev, V. S.; Pochinka, O. V. *Bifurcations of Morse-Smale diffeomorphisms with wildly embedded separatrices*. **Proc. Steklov Inst. Math.** 256, 47-61 (2007); translation from Tr. Mat. Inst. Steklova 256, 54-69 (2007).
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  87. Arnaud, Marie-Claude; Bonatti, Christian; Crovisier, Sylvain *Generic symplectic dynamics*. **Ergodic Theory Dyn. Syst.** 25, No. 5, 1401-1436 (2005).
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  89. Bonatti, Christian; Wilkinson, Amie *Transitive partially hyperbolic diffeomorphisms on 3-manifolds*. **Topology** 44, No. 3, 475-508 (2005).
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  94. Bonatti, Christian; Crovisier, Sylvain *Recurrence and genericity*. (Récurrence et généricité.) (French. English summary) **Invent. Math.** 158, No. 1, 33-104 (2004).
  95. Bonatti, Christian; Matheus, Carlos; Viana, Marcelo; Wilkinson, Amie *Abundance of stable ergodicity*. **Comment. Math. Helv.** 79, No. 4, 753-757 (2004).
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