

3 論文リスト

1. K.Hiraide and C.Matsuoka, Iterative approximations of algebraically invariant curves at hyperbolic fixed points of Hénon maps, in preparation.
2. K.Hiraide and C.Matsuoka, Rapid deterioration of convergence in Taylor expansions of linearizing maps of Hénon maps at hyperbolic fixed points, *Mathematics* 13, 3526 1-17 (2025).
3. C. Matsuoka and K. Hiraide, Detecting homoclinic points in nonlinear discrete dynamical systems via resurgent analysis, *AppliedMath* 5, 123 1-18 (2025).
4. K. Hiraide, A proof of the Fatou conjecture, in preparation.
5. C. Matsuoka and K. Hiraide, Computation of entropy and Lyapunov exponent by a shift transform, *Chaos* 25, 1031101-6 (2015).
6. C. Matsuoka and K. Hiraide, Entropy estimation of the Henon attractor, *Chaos Solitons Fractal* 45, 805-809 (2012).
7. C. Matsuoka and K. Hiraide, Special functions created by Borel-Laplace transform of Henon map, *Electron. Res. Announc. Math. Sci.* 18, 1-11(2011).
8. K. Hiraide, A simple proof of the Franks-Newhouse theorem on codimension-one Anosov diffeomorphisms. *Ergodic Theory & Dynam. Systems*, 21, 801-806 (2001).
9. K. Hiraide, On an ordering of dynamics of homeomorphisms, *Proceedings of the International Conference on Algorithms, Fractals, and Dynamics*, 63-78 (1995).
10. K. Hiraide, Codimension two hyperbolic infra-nilmanifold automorphisms, *Proceedings of the International Conference on Dynamical Systems and Chaos Vol.1*, World Scientific, 87-96 (1995),
11. N. Aoki and K. Hiraide, *Topological theory of dynamical systems. Recent advances*, North-Holland Mathematical Library 52. North-Holland, Amsterdam, 416 pp. (1994) ISBN: 9780444899170, pbk ISBN: 9780444558565, eBook ISBN: 9780080887210
12. K. Hiraide, Dynamical systems of expansive maps on compact manifolds, *Sugaku Expositions Amer. Math. Soc.* 5, 133-154 (1992).
13. 平出耕一, 拡大的写像の力学系, *数学(日本数学会邦文誌)* 42巻1号, 32-47 (1990).
14. K. Hiraide, Nonexistence of positively expansive maps on compact connected manifolds with boundary, *Proc. Amer. Math. Soc.*, 110, 565-568 (1990).
15. K. Hiraide, Expansive homeomorphisms of compact surfaces are pseudo-Anosov, *Osaka J. Math.* 27. 117-162 (1990).

16. K. Hiraide, Positively expansive open maps of Peano spaces, *Topology and its Appl.* 37, 213-220 (1990).
17. K. Hiraide, Expansive homeomorphisms with the pseudo-orbit tracing property of n -tori, *J. Math. Soc. Japan*, 41, 357-389 (1989).
18. K. Hiraide, Positively expansive maps and growth of fundamental groups, *Proc. Amer. Math. Soc.*, 104, 934-941 (1988).
19. K. Hiraide, Expansive homeomorphisms with the pseudo-orbit tracing property on compact surfaces, *J. Math. Soc. Japan* 40, 123-137 (1988).
20. K. Hiraide, Expansive homeomorphisms of compact surfaces are pseudo-Anosov, *Proc. Japan Acad. Ser A Math. Sci.* 63, 337-338 (1987).
21. K. Hiraide, On Homeomorphisms with Markov Partitions, *Tokyo J. Math.* 8, 219-229 (1985).
22. N. Aoki and K. Hiraide, The linearization of positively expansive maps of tori, *Proceedings of the Conference on the theory of dynamical systems and its applications to nonlinear problems*, World Sci. Publishing, 27-31 (1984).

下記は辞書等の出版物のリストである.

1. 岩波数学辞典第4版, 平出 耕一 (担当: 分担執筆, 範囲: 双曲力学系), 岩波書店, (2007)
2. Topological Discrete Dynamical Systems, N.Aoki and K.Hiraide, *Encyclopedia of General Topology*, Elsevier Science, 385-401 (2003).
3. スメールが選んだ18の問題 (特集 21世紀への問題), 岡 正俊, 平出 耕一, *数学セミナー* 39巻11号, 日本評論社, 48-50 (2000).

また、数理解析研究所講究録に計16本の出版物があるが、今後の研究に関連する以下のものを除いて省略する:

1. “複素1次元多項式に対する正則運動 (力学系理論の最近の進展とその応用)”, K. Hiraide, *数理解析研究所講究録* **2223**, 75-87 (2022).
2. “ C^2 のエノン写像の力学系に現れる非線形ストークス現象 (数理科学の諸問題と力学系理論の新展開)”, K. Hiraide, *数理解析研究所講究録* **2181**, 134-144 (2021).
3. “力学系の最小スペクトルと応用 (双曲型力学系から大自由度力学系へ)”, K. Hiraide, *数理解析研究所講究録* **1688**, 144-156 (2010).