

Publications

Xiangdong YE

Publications

1. **W. Huang, L. Xu and X. Ye**, *Polynomial mean complexity and logarithmic Sarnak conjecture*, to appear in ETDS, arXiv:2009.02090 [math.DS].
2. **Q. Wu, H. Xu and X. Ye**, *On structure theorems and non-saturated examples*, to appear in Commun. Math. Stat., arXiv:2201.00152 [math.DS].
3. **E. Glasner, W. Huang, S. Shao, and B. Weiss, X. Ye**, *Topological characteristic factors and nilsystems*, to appear in J. Eur. Math. Soc. (JEMS), arXiv:2006.12385 [math.DS].
4. **W. Huang, S. Shao and X. Ye**, *Multiply minimal points for the product of iterates*, Israel J. of Math., **251** (2022), 541-565.
5. **E. Shi, H. Xu and X. Ye**, *An alternative for minimal group actions on totally regular curves*, J. Differential Equations, **341**(2022), 402-421.
6. **J. Li, X. Ye and T. Yu**, *Equicontinuity and sensitivity in mean forms*, J. Dynam. Differential Equations, **34**(2022), 133-154.
7. **E. Shi and X. Ye**, *Periodic points for amenable group actions on uniquely arc connected continua*, Ergodic Theory Dynam. Systems, **41**(2021), 2833–2844.
8. **F. Garcia-Ramos, T. Jager and X. Ye**: *Mean equicontinuity, almost automorphy and regularity*, Israel J. Math. **243**(2021), no. 1, 155–183.
9. **W. Huang, Z. Lian, S. Shao and X. Ye**, *Minimal systems with finitely many ergodic measures*, J. Funct. Anal. **280**(2021), no. 12, 109000.
10. **W. Huang, J. Li, L. Xu and X. Ye**, *The existence of semi-horseshoes for partially hyperbolic diffeomorphisms*, Adv. Math., 381(2021), 107616.
11. **W. Huang, J. Li and X. Ye**, *Positive entropy implies chaos along any infinite sequence*, arXiv:2006.09601, Trans. Moscow Math. Soc., **82**(2021), N. 1, 3-18.
12. **W. Huang, Jian Li, J. Thouvenot, L. Xu and X. Ye**, *Bounded complexity, mean equicontinuity and discrete spectrum*, Ergod. Th. and Dynam. Sys., **41**(2021), no. 2, 494-533.
13. **J. Li, X. Ye and T. Yu**, *Mean equicontinuity, bounded complexity and applications*, Discrete Contin. Dyn. Syst., **41** (2021), 359-393.
14. **Huang, Shao, X. Ye**, *An answer to Furstenberg' problem on topological disjointness*, Ergod. Th. and Dynam. Sys., 40 (2020), no. 9, 2467-2481.
15. **W. Huang, L. Xu and X. Ye**, *A minimal distal map on the torus with sub-exponential measure complexity*, Ergod. Th. and Dynam. Sys., 40 (2020), no. 4, 953–974.

16. **W. Huang, S. Shao and X. Ye**, *The parallels between topological dynamics and ergodic theory*, In: Meyers R.A. (eds) Encyclopedia of Complexity and Systems Science. Springer, Berlin, Heidelberg, 2020.
17. **Glasner, Huang, Shao, X. Ye**, *Regionally proximal relation of order d along arithmetic progressions and nilsystems*. Sci. China Math, **63** (2020), no. 9, 1757-1776.
18. **E. Shi and X. Ye**, *Equicontinuity of minimal sets for amenable group actions on dendrites*, Dynamics: topology and numbers, 175–180, Contemp. Math., 744, Amer. Math. Soc., Providence, RI, 2020.
19. **L. Snoha, X. Ye, R. Zhang**, *Topology and topological sequence entropy*, Sci. China Math. **63**(2020), no. 2, 205-296.
20. **W. Huang, S. Shao and X. Ye**: *Pointwise convergence of multiple ergodic averages and strictly ergodic models*, J. d'Anal. Math., **139**(2019), 265-305.
21. **W. Huang, S. Shao and X. Ye**, *Topological correspondence of multiple ergodic averages of nilpotent actions*, J. Anal. Math. **138**(2019), no. 2, 687-715.
22. **W. Huang, Z. Wang and X. Ye**, *Measure complexity and Möbius disjointness*, Adv. in Math., **347**(2019), 827-858.
23. **E. Glasner, Y. Gutman and X. Ye**, *Higher order regionally proximal equivalence relations for general group actions*, arXiv:1706.07227, Adv. in Math., **333** (2018), 1004-1041.
24. **X. Ye and T. Yu**, *Sensitivity, proximal extension and higher order almost automorphy*, arXiv:1605.01119. Trans. Amer. Math. Soc., **370**(2018), No. 5, 3639-3662.
25. **Y. Gutman, W. Huang, S. Shao and X. Ye**, *Almost sure convergence of the multiple ergodic average for certain weakly mixing systems*, Acta. Math. Sinica, **34**(2018), No. 1, 79-90. arXiv:1612.02873.
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32. **E. Shi and X. Ye**, *Periodic points for amenable group actions on dendrites*, Proc. Amer. Math. Soc. **145**(2017), no. 1, 177-184.

33. **W. Huang, Jian Li, X. Ye, X.Y. Zhou**, *Positive entropy and diagonal weakly mixing sets*, arXiv:1504.07520[math.DS], Adv. Math., **306**(2017), 653-683.
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36. **Jian Li and X. Ye**, *Recent development of chaos theory in topological dynamics*, Acta. Math. Sinica, English Series (invited paper for the 30 years of S.S. Chen prize), **32**(2016), no. 1, 83-114.
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47. **W. Huang and X. Ye**, *Generic eigenvalues, generic homomorphisms and weak disjointness*, Contemporary Mathematics, 567, 119-143, 2012.
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59. **R. Kuang and X. Ye**, *Mixing via families for measure preserving transformations*, Colloq. Math. **110** (2008), 151-165
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Preprints

1. **H. Xu and X. Ye**, Disjointness from all minimal systems under group actions, preprint, 2022. arXiv:2212.07830.
2. **W. Huang, S. Shao and X. Ye**, Topological dynamical systems induced by polynomials and combinatorial consequences, preprint 2023, arXiv:2301.07873.
3. **W. Huang, S. Shao and X. Ye**, Polynomial Furstenberg joinings and its applications, preprint, 2023. arXiv:2301.07881.
4. **W. Huang, S. Shao and X.D. Ye**, A counterexample on polynomial multiple convergence without commutativity. preprint, 2023. arXiv:2301.12409