

Mixing composition operators and Kitai's criterion

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Answering a question of Shapiro, Sophie Grivaux [1] provided the first example of a mixing linear dynamical system that does not satisfy Kitai's criterion. We show here that further examples can be given in the context first studied in detail by Bayart, Darji and Pires [2], that of composition operators on spaces of measurable functions.

References

- [1] S. Grivaux, Hypercyclic operators, mixing operators, and the bounded steps problem, *J. Operator Theory* 54 (2005), 147–168.
- [2] F. Bayart, U. B. Darji, and B. Pires, Topological transitivity and mixing of composition operators, *J. Math. Anal. Appl.* 465 (2018), 125–139.

*This is joint work with Daniel Gomes (State University of Campinas, UNICAMP).