

DISJOINT DYNAMICAL PROPERTIES OF WEDGE OPERATORS

Stefan Ivković

(Mathematical Institute of the Serbian Academy of Sciences and Arts, p.p. 367, Kneza Mihaila 36,
11000 Beograd, Serbia)

E-mail: stefan.iv10@outlook.com

Let H be a separable Hilbert space and $B_0(H)$ be the C^* -algebra of compact operators on H . Given an invertible bounded operator W and a unitary operator \mathcal{U} on H , we let $T_{\mathcal{U},W}$ be the operator on $B_0(H)$ given by $T_{\mathcal{U},W}(F) = WF\mathcal{U}$ for all $F \in B_0(H)$. Such operators are called wedge operators. In this talk, we characterize disjoint hypercyclic finite sequences of wedge operators. We provide also sufficient conditions for a finite sequence of the dual wedge operators to be disjoint topologically transitive. Finally, we give concrete examples and applications. The talk will be based on [1].

REFERENCES

- [1] Ivković, S., Tabatabaie, S.M. Disjoint Linear Dynamical Properties of Elementary Operators. Bull. Iran. Math. Soc. 49, 63 (2023). <https://doi.org/10.1007/s41980-023-00808-1>.