SUBSPACE–HYPERCYCLIC WEIGHTED SHIFTS

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Abstract. Our aim in this paper is to obtain necessary and sufficient conditions for bilateral and unilateral weighted shift operators to be subspace-transitive. We show that the Herrero question [6] holds true even on a subspace of a Hilbert space, i.e. there exists an operator $T$ such that both $T$ and $T^*$ are subspace-hypercyclic operators for some subspaces. We display the conditions on the direct sum of two invertible bilateral forward weighted shift operators to be subspace-hypercyclic.


Keywords and phrases: Hypercyclic operators, weighted shift operators.

REFERENCES