

SUBSPACE-MIXING OPERATORS AND SUBSPACE-WEAKLY MIXING OPERATORS

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Abstract

In this paper, we prove some properties of subspace-mixing and subspace-weakly mixing operators. We also show that if $T \in B(X)$ is *M*-transitive, $T(M) \subseteq M$ and *M* has no isolated point, *M*-chaotic operators, *M*-transitive operators that have a dense set of periodic points in *M* and *M*-transitive operators with dense generalized kernel in *M*, are *M*-weakly mixing.

Keywords and phrases: subspace-hypercyclicity, subspace-chaotic operators, subspace-mixing, subspace-weakly mixing operators.

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