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.