MARQUETTE UNIVERSITY

HELEN WAY KLINGLER
COLLEGE OF ARTS AND SCIENCES

Department of Mathematics, Statistics and Computer Science

COLLOQUIUM ANNOUNCEMENT

A mixing operator T for which (T, T^2) is not disjoint transitive

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Cudahy Hall, Room 401

Abstract

We answer a question posed by Bès, Martin, Peris and Shkarin concerning dynamics of liner operators by using a result from ergodic Ramsey theory. In answering this question, Szemeredi's famous theorem will unexpectedly play an important role. Indeed, using a kind of Szemeredi's theorem for generalized polynomials we show a mixing operator T on a Hilbert space such that the tuple (T, T^2) is not disjoint transitive.