Department of Mathematics, Statistics and Computer Science

## COLLOQUIUM ANNOUNCEMENT

## A mixing operator T for which (T,<sup>2</sup>)Tis not disjoint transitive

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2:00 PM, Thursday, March 8, 2018

Cudahy Hall, Room 401

Abstract

We answer a question posed by £8, 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 Ton a Hilbert space such that the tuple (1), is not disjoint transitive.

1313 W. Wisconin Avenue, Cudahy Hall, Room 412, Milwaukee, WI 53201881 For further information: see <u>http://www.marquette.edu/mscs/resourcecolloquium.shtml</u> or contact Dr. Daniel Rowe#414288-5228, <u>daniel.rowe@marquette.edu</u>

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