# CCSU
## DEPARTMENT OF MATHEMATICAL SCIENCES
# COLLOQUIUM

Friday, November 11
4:30 – 5:30 PM
Maria Sanford, Room 101

# AN INTRODUCTION TO THE DYNAMICS OF LINEAR OPERATORS

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**Abstract:** A commonly held belief in the general scientific community is that the chaotic behavior of a dynamical system is intrinsically and almost exclusively connected to the non-linearity of the laws governing it. Interestingly enough, many natural linear dynamical systems can exhibit chaotic behavior. The study of the dynamics of continuous linear operators acting on topological vector spaces is relatively young but well-established and active area of research in the intersection of operator theory, complex analysis, ergodic theory and even partial differential equations. In this talk we will offer an introduction to the area and its main results.

The talk will be accessible to students with knowledge of basic linear algebra and calculus.