

abstract

COMPUTER SCIENCE/DISCRETE MATH II

Topic:

Speaker:

Affiliation:

Date:

Time/Room:

We consider periodic orbits of multiparameter diagonalizable actions. A simple example of such an action is the action generated by the maps $x \rightarrow 2x \bmod 1$ and $x \rightarrow 3x \bmod 1$ on \mathbb{R}/\mathbb{Z} . There are strong parallels between the study of these orbits and extractors, as well as connections to the sum-product phenomenon. Much of my talk will be based on joint work with M. Einsiedler, P. Michel and A. Venkatesh.