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On the dynamics of minimal topological finite rank systems

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In this talk we will discuss about the dynamics of topological finite rank systems. This class of Cantor systems arise naturally in symbolic dynamics and also in the study of interval exchange maps. It is an extension of the so called substitution systems and linearly recurrent. Surprisingly, many dynamical properties of this last systems can be extended to topological finite rank systems, many times with complicated combinatorial arguments. That dynamical properties we will discuss are: expansiveness, combinatorial complexity, spectra, symbolic factors, automorphism group.

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