

Mean equicontinuity, amorphic complexity and substitution systems I

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Studying notions of long-range order in symbolic and tiling dynamical systems via dynamical invariants has a long history which goes back to the seminal work of Hedlund and Morse. In this talk, I will provide an overview of the low-complexity concepts of mean equicontinuity and amorphic complexity, and examine how they are interrelated. This is the first part of a two-part talk, with the second part to be presented by E. Krawczyk where she will focus on the calculation of amorphic complexity of substitution systems.

This is, in part, joint work with G. Fuhrmann, T. Jäger, E. Krawczyk and D. Kwietniak.