Bounded density shifts

Damla Buldag
Jagiellonian University

Abstract

We consider subshifts of the full shift of bi-infinite sequences with alphabet $\{0, 1, ..., n-1\}$ defined by not allowing the sum of finite words to exceed a value depending on its length. These shifts we call bounded density shifts. We study these shifts in detail and make a comparison on the similarities to but also differences from the well-known Beta shifts. The talk is based on the paper of Brett Stanley (ETDS 33(2013) p.1891-1928).