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Van Cyr* (van.cyr@bucknell.edu) and **Bryna Kra**. *Properties of low complexity symbolic systems and applications.*

The topological entropy of a subshift is the exponential growth rate of the number of words of different lengths in its language. For subshifts of entropy zero, finer growth invariants constrain their dynamical properties. In this talk we will survey how the complexity of a subshift affects the ergodic properties of the invariant measures it carries and constrains the properties of its orbits. Combinatorial and algebraic applications will be discussed. (Received September 17, 2019)