

Ali Messaoudi. Dynamics of stochastic adding machines.

Abstract. In 2000, Killeen and Taylor defined a stochastic adding machine in base 2 for which they associated an infinite Markov chain whose transition operator S is an infinite matrix that has a Julia set as a set of eigenvalues. In this work, we study some dynamical properties (transitivity, mixing and supercyclicity) of S acting in a classical Banach space. This work can be extended to a large class of adding machines.
