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Ergodic Theory Dynam Syst  
26(4):1203–1224 Google Scholar 90.  
Maass A, Martínez S, Pivato M, Yassawi R  
(2006) Attractiveness of the  
Haar measure for the action of linear  
cellular automata in abelian topological  
Markov chains.

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Ergodic theory is the study of how a dynamical system transforms the information encoded in an invariant probability measure. This article reviews the major recent results in the ergodic theory of cellular automata.

## **The ergodic theory of cellular automata - NASA/ADS**

Configuration space and the shift Let  $G$  [equation] be a finitely generated group

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or monoid (usually abelian). Typically, [equation] or [equation] or [equation],  $\mathbb{Z}^D$ , or  $\mathbb{Z}^D \times \mathbb{N}^E$  for some  $D, E \in \mathbb{N}$ . In...

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Abstract. We study the dynamical behavior of  $D$ -dimensional linear cellular automata over  $\mathbb{Z}^m$ . We provide an easy-to-check necessary and sufficient condition for a  $D$ -dimensional linear cellular automata over  $\mathbb{Z}^m$  to be ergodic and topologically transitive. As a byproduct, we get that for linear cellular automata ergodicity is equivalent to topological transitivity.

## **Ergodicity, transitivity, and regularity for linear ...**

An Introduction to Ergodic Theory (Springer: Berlin, 1982). [14] Wang, H. . Proving theorems by pattern recognition II Bell System Tech. J. 40 ( 1961 ), 1 - 41 .

## **The topological entropy of cellular**

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## **automata is ...**

The application of formal language theory to the dynamical behaviour of cellular automata. A dissertation presented to the faculty of Princeton University in Candidacy for the degree of Doctor of Philosophy ( 1988 ).

## **On the sofic limit sets of cellular automata | Ergodic ...**

Ergodic theory In a series of papers published in 1932, von Neumann made foundational contributions to ergodic theory, a branch of mathematics that involves the states of dynamical systems with an invariant measure.

## **John von Neumann - Wikipedia**

Some more results about ergodic properties of surjective cellular automata are obtained Let  $X$  be a closed translationally invariant subset of the  $d$ -dimensional full shift  $P^{\mathbb{Z}^d}$ , where  $P$  is a finite set, and suppose that the  $\mathbb{Z}^d$ -action on  $X$  by translations has positive topological entropy. Let  $G$  be a finitely

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generated group of polynomial growth.

## **On the ergodic theory of cellular automata and two ...**

Wilison, On the ergodic theory of cellular automata, Math. Systems Theory 9 (1975) 132-141. Recommended articles Citing articles (0) References. H. Aso, N. Honda Dynamical characteristics of linear cellular automata. J. Comput. System Sci., 30 (3) (1985), pp. 291-317. Google Scholar.

## **Ergodicity of linear cellular automata over $\mathbb{Z}^m$ - ScienceDirect**

[27] B. Hellouin de Menibus and M. Sablik, Characterization of sets of limit measures of a cellular automaton iterated on a random configuration, Ergodic Theory and Dynamical Systems 38 (2018), no. 2, 601-650.

## **Marcovici , Sablik , Taati : Ergodicity of some classes of ...**

RIGIDITY RESULTS IN CELLULAR AUTOMATA THEORY: PROBABILISTIC

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AND ERGODIC THEORY APPROACH  
ALEJANDRO MAASS Abstract. In these notes review some results and its extensions concerning the existence of invariant stationary probability measures under a one-dimensional algebraic cellular automaton. We

## **RIGIDITY RESULTS IN CELLULAR AUTOMATA THEORY ...**

Compared with their topological dynamics, the ergodic theory of cellular automata is still in its infancy. One of the main reasons is that few invariant measures are known, if any, for any given cellular automaton. In this article for a family of CA defined by a topological property we give a rather simple construction

## **CiteSeerX — Some properties of cellular automata with ...**

This book introduces modern ergodic theory. It emphasizes a new approach that relies on the technique of joining two (or more) dynamical systems. This

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approach has proved to be fruitful in many recent works, and this is the first time that the entire theory is presented from a joining perspective.

## **Ergodic Theory via Joinings: Eli Glasner: 9781470419516 ...**

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## **CiteSeerX — The ergodic theory of cellular automata**

In ergodic theory the choice is assumed made, but if the dynamical system is given by a system of differential equations the appropriate measure must be determined. Some systems have a natural measure, such as the Liouville measure in Hamiltonian systems , chosen over other invariant measures, such as the measures supported on periodic orbits of the Hamiltonian system.



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## **Dynamical system (definition) - Wikipedia**

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