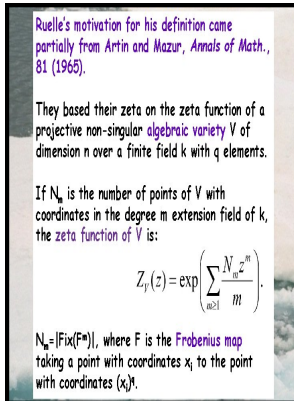


# Dynamical zeta functions for piecewise monotone maps of the interval

American Mathematical Society - Dynamical Zeta Functions



Description: -

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Monotone operators  
Mappings (Mathematics)

Functions, Zeta

Differentiable dynamical systems  
Dynamical zeta functions for  
piecewise monotone maps of the interval

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v. 4

CRM monograph series ;  
Dynamical zeta functions for piecewise  
monotone maps of the interval

Notes: Includes bibliographical references (p. 61-62).

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CiteSeerX — Dynamical Zeta Functions for Tree Maps

Parry, Symbolic dynamics and transformations of the unit interval. *Zametki*, 12 1972 , 149-154. .

## Dynamical Zeta Functions

Hence some kind of Riemann hypothesis seems to hold for this dynamical zeta function. The result generalizes to several complex variables and to the case of fractal Sturm—Liouville operators a factorization formula obtained by the second author for the spectral zeta function of a fractal string and later extended to the Sierpinski gasket and some other decimable fractals by A. The spectral zeta function of the Sierpinski gasket is a product of the zeta function of a polynomial and a geometric part; the poles of the former are canceled by the zeros of the latter.

## 11. Piecewise Monotone Dynamical Systems

We also prove still in dimension one a related conjecture of the first author, as well as its converse, which characterizes the situation when the error estimates of the aforementioned paper are sharp.

## Dynamical zeta functions for tree maps

The transfer operator is defined in a certain space of holomorphic functions and its matrix representation in a natural basis is given in terms of the Riemann zeta function.

## Dynamical and spectral zeta functions

On the forward dynamical behavior of nonautonomous systems. The difficult problem of evaluating the analytic continuation  $Z_s$  for arbitrary complex  $s$  is discussed within the contexts of perturbation expansions, path integration, and quantum chaos.

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Operator algebras and group representations, Vol. Mazur On periodic points Ann. .

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## Related Books

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