



Mathematical Sciences / Mathematics

Mahdi Pourbarat

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Education

- ,
- Ph.D: SHAHID BEHESHTI UNIVERSITY,

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Research Interests

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Journal Papers

- **Chaos in One-dimensional Piecewise Smooth Dynamical Systems**
Mahdi Pourbarat, Neda Abbasi, Roya Makrooni, Mohammad Reza Molaei
JOURNAL OF DYNAMICAL AND CONTROL SYSTEMS, Vol.29, pp. 1271-1285, 2023
- **On some kinds of dense orbits in general nonautonomous dynamical systems**
Mahdi Pourbarat
nonautonomous dynamical systems, Vol.7, pp. 163-175, 2020
- **Stable intersection of affine Cantor sets defined by two expanding maps**
Mahdi Pourbarat
JOURNAL OF DIFFERENTIAL EQUATIONS, Vol.26, pp. 2125-2141, 2019
- **ON THE ARITHMETIC DIFFERENCE OF MIDDLE CANTOR SETS**
Mahdi Pourbarat
DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS, Vol.38, pp. 4259-4278, 2018
- **On subspaces that are not Baire**
Mahdi Pourbarat, Neda Abbasi
New Zealand Journal of Mathematics, Vol.45, pp. 65-69, 2015
- **Nonautonomous Discrete Systems Density of Orbits and Transitivity**
Mahdi Pourbarat, Neda Abbasi
INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, Vol.25, pp. 651-656, 2015

■ **Analysis of dynamical system to transition probabilities in the Birth-Death Markov process in the epidemic model**

Fateme Sadat Movahedi, Changiz Eslahchi, Mahdi Pourbarat, Mohammad Sadegh Shahrokhi-Dehkordi
Far East Journal of Dynamical Systems, Vol.26, pp. 61-74, 2015

■ **Robust unbounded chaotic attractors in 1D discontinuous maps**

, Neda Abbasi, Mahdi Pourbarat,
CHAOS SOLITONS and FRACTALS, Vol.77, pp. 310-318, 2015

■ **Stable intersection of middle- Cantor sets**

Mahdi Pourbarat
COMMUNICATIONS IN CONTEMPORARY MATHEMATICS, Vol.17, pp. 1-19, 2015

■ **Matter Confinement Mechanism in de Sitter Brane**

Mahdi Pourbarat, Mohammad Sadegh Shahrokhi-Dehkordi
REPORTS ON MATHEMATICAL PHYSICS, Vol.74, pp. 359-370, 2014

■ **On the quantum representation of Lorentz non-invariant models**

Reza Rashidi, Mahdi Pourbarat
indian journal of physics and application(IJPA), Vol.1, pp. 109-114, 2013

■ **Arithmetic difference of middle Cantor sets self-similarity and measure**

Mahdi Pourbarat
Journal of Dynamical Systems and Geometric Theories, Vol.10, pp. 107-114, 2012

■ **On the Arithmetic Difference of Affine Cantor Sets**

Bahman Honari, Mahdi Pourbarat, M.R. Velayati
Journal of Dynamical Systems and Geometric Theories, Vol.4, pp. 139-146, 2006

■ **Stable intersections of affine cantor sets**

, Bahman Honari, Mahdi Pourbarat
BULLETIN OF THE BRAZILIAN MATHEMATICAL SOCIETY, Vol.3, pp. 363-378, 2005

■ **مدلسازی آشوب در دستگاه های دینامیکی قطعه ای هموار با یک نقطه ی ناپیوستگی**

مهدی پوربرات، ندا عباسی، رویا مکرونی

مدلسازی پیشرفته ریاضی، نسخه ۹، صفحات: ۹۳-۱۰۵، ۱۳۹۷

Conference Papers

■ **On the arithmetic difference of middle Cantor sets**

Mahdi Pourbarat
Mathematical Congress of the Americas

■ **Wigging chaos in linear nonautonomous discrete systems**

Mahdi Pourbarat
Contributed session bifurcation and chaotic dynamics

■ **One dimensional Baker-like map with infinitely many branches**

مهدی پوربرات

سمینار معادلات دیفرانسیل و سیستم های دینامیکی، صفحات: ۴۹۰-۴۹۴

■ **Nonautonomous discrete systems**

مهدی پوربرات

هندسه توپولوژی، صفحات: ۷۲-۷۶

A dynamic criterion for recognizing some topological spaces without Baire property ■

مهدی پوربرات

هندسه توپولوژی

Topological rigidity for holomorphic foliation ■

مهدی پوربرات

کارگاه آموزشی سیستمهای دینامیکی و آشوب

thesis and doctoral thesis

■

Neda Abbasi

2015

M.Sc. Theses

■ Livsic theorem ,Matrix Cocycles, Trivial Periodic data, Lyapunov exponents, Coboundary

Fahimeh Fotoohi ardakani

2022

■ geodesic flows modelld by expensive flows

Maryam Dehbandi

2021

■ homoclinic origin of henon-like maps

Maedeh Rahmani

2021

■ rate of approximation of minimizing measures

Ozra Kargar

2021

■ Dynamical systems arising from elliptic curves

Haleh Hoseini

2021

■ WHAT ARE LYAPUNOV EXPONENTS,AND WHY ARE THEY INTERESTING?

Esmaeel Karimi Dehkordi

2020

■ lyapunov functionals and matrices

Saeid Azadi

2020

■ chaos in a three-dimensional general model of neural network

Shima Khalighi

2019

■ Geometric properties of Markov and Lagrange spectra

Sayyed Rreza Parsa

2019

■
Vahid Rafiei
2018

■
Farnaz Soltani
2018

■
Parisa Sabet
2017

■
Jaber Akbari Cheshani
2017

■
Behnaz Refahi Esfandabadi
2017

■
Mohammad Hossein Yahyayi
2015

■
Masoomah Ahmadi
2015

■
Marjan Jadidi
2014

■
Sepedeh Bakhoda
2014

■
2014

■
Zeinab Hanifei
2014

■
Amin Shojaei
2013

■
Mohammad Zebarjadi
2013

■
Zahra Eyni

2012



Saeed Yarkeh Salkhori

2012



Ahmad Heydari

2012



2012



Tooba Manshoori Ghayesh Ghorshagh

2011



Hamidreza Yazdani

2011



Hamid Siyabi Serajehloo

2009

Awards & Honors

■ حکم قهرمانی در فوتبال

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