

Casson-type asymptotic invariants of knots in the Poincaré sphere <i>Petr M. Akhmet'ev</i>	9
What is the area of a finitely presented group and what does this area depend on <i>Ivan Babenko</i>	11
Группы дiffeоморфизмов прямой и окружности. Структурные теоремы, критерии почти nilпотентности (Groups of diffeomorphisms of the line and circle. Structural theorems and almost nilpotency criteria) <i>Л. А. Бекларян (L. A. Beklaryan)</i>	12
Emergence and para-dynamics <i>Pierre Berger</i>	15
Typical points in chaotic dynamics <i>Michael Blank</i>	16
Quasi-symmetries and conditional measures of determinantal point processes <i>Alexander I. Bufetov</i>	20
Some examples of KAM-nondegenerate nearly integrable systems with positive metric entropy <i>Dong Chen</i>	21
Shadowing and density of minimal points <i>Danila Cherkashin, Sergey Kryzhevich</i>	23
Fast-slow partially hyperbolic systems and pathological foliations <i>Jacopo De Simoi, Carlangelo Liverani, Christophe Poquet, Denis Volk</i>	25
Anti-integrable limit and non-existence of first integral in many-dimensional systems <i>Sergei A. Dovbysh</i>	27
Towards the theory of solutions of the flow equations of incompressible liquid <i>V. S. Dryuma</i>	28
Non-integrable model describing some aspects of celestial bodies' dynamics in first order mean motion resonance <i>Sergey Efimov, Vladislav Sidorenko</i>	31

Main subspaces of the space of C^1 -smooth skew products
of interval maps

- Lyudmila Efremova* 33

Lower bounds for Lyapunov exponents of flat bundles on curves

- Alex Eskin, Maxim Kontsevich, Martin Möller, Anton Zorich* 36

Lebesgue spectrum for area preserving flows on the two torus

- Bassam Fayad* 39

On the development of Anosov's topological ideas in fixed point
and coincidence theory

- Tatiana N. Fomenko* 39

Асимптотический анализ в одной задаче сингулярной теории
возмущений

(Asymptotic analysis in one problem of singular perturbation theory)

- B. B. Фуфаев (V. V. Fufaev)* 43

On a model of Josephson effect, dynamical systems on two-torus and
Heun equations

- Alexey Glutsyuk* 44

Anosov ε -orbits and mixed dynamics

- Sergey Gonchenko* 46

Parametric Furstenberg theorem on random products of $SL(2, \mathbb{R})$
matrices

- Anton Gorodetski, Victor Kleptsyn* 46

Dynamical constructions on the space of finitely generated groups
and the concept of random group

- Rostislav Grigorchuk* 49

Group actions, subshifts and spectra

- Rostislav Grigorchuk, Daniel Lenz, Tatiana Nagnibeda* 52

On Anosov–Weil theory and classification of dynamical systems
on surfaces

- Viacheslav Grines, Evgenii Zhuzhoma* 53

Скорость деформации в динамических системах

(Deformation rate in dynamical systems)

- Б. М. Гуревич (B. M. Gurevich), С. А. Комеч (S. A. Komech)* .. 55

Rates of convergence in ergodic theorems for Anosov diffeomorphisms

- Alexander Kachurovskii* 57

On local Birkhoff conjecture for convex billiards <i>Vadim Kaloshin</i>	59
О дискретных орбитах цилиндрического каскада с гёльдеровой функцией (On discrete orbits for a cylindrical cascade with a Hölder function) <i>A. B. Кочергин (A. V. Kochergin)</i>	60
Гиперболический принцип кольца (The hyperbolic annulus principle) <i>A. Ю. Колесов (A. Yu. Kolesov), H. X. Розов (N. Kh. Rozov)</i> ...	63
Условия неинтегрируемости уравнений геодезических на однородных пространствах фуксовых групп (Non-integrability conditions for geodesic flows on homogeneous spaces of Fuchsian groups) <i>B. В. Козлов (V. V. Kozlov)</i>	67
Гиперболическая динамика физических систем (Hyperbolic dynamics of physical systems) <i>C. П. Кузнецов (S. P. Kuznetsov)</i>	68
Nonautonomous dynamics: Anosov's heritage in action <i>Lev Lerman</i>	71
К мультипликативной эргодической теореме (On multiplicative ergodic theorem) <i>M. Е. Липатов (M. E. Lipatov), A. М. Степин (A. M. Stepin)</i> ..	75
Достаточные условия неустойчивости положений равновесия релейных систем (Sufficient conditions of instability of relay system equilibrium) <i>A. А. Лосев (A. A. Losev)</i>	78
Omega-limit sets of generic points of partially hyperbolic diffeomorphisms <i>S. S. Minkov, A. V. Okunev</i>	79
Long-term behaviour of slow–fast systems with passages through resonances: Examples from charged particle dynamics <i>Anatoly Neishtadt</i>	81
Closures of group actions and Poisson measures <i>Yury Neretin</i>	83

A C^1 Anosov diffeomorphism with a horseshoe that attracts almost any point <i>Alexey Okunev</i>	84
Erdős measures on Euclidean space and \widehat{Z}^n <i>Valery Oseledets</i>	84
Shadowing and inverse shadowing in group actions <i>Sergei Yu. Pilyugin</i>	85
О топологической классификации систем Морса–Смейла (On topological classification of Morse–Smale systems) <i>O. V. Почкинка (O. V. Pochinka)</i>	86
Estimates of correlations in dynamical systems: from Hölder continuous to general observables <i>Ivan Podvigin</i>	87
О динамике дискретных систем со случайными параметрами (About dynamics of discrete systems with random parameters) <i>L. I. Родина (L. I. Rodina)</i>	90
Homoclinic invariants of ergodic actions <i>Valery Ryzhikov</i>	93
Композиции случайных полугрупп и закон больших чисел (Composition of random semigroups and the law of large numbers) <i>B. Ж. Сакбаев (V. Zh. Sakbaev)</i>	97
Топологическая классификация диффеоморфизмов поверхностей с одномерными инвариантными множествами (Topological classification of surface diffeomorphisms with one-dimensional invariant sets) <i>A. H. Сахаров (A. N. Sakharov)</i>	100
Грубая энтропия в задаче о распределении космических пылевых частиц (The coarse-grained entropy in the problem of the distribution of dust cosmic particles) <i>T. B. Сальникова (T. V. Salnikova), С. Я. Степанов (S. Ya. Stepanov), А. И. Шувалова (A. I. Shuvalova)</i>	104

Интегрируемые системы с переменной диссипацией

на касательном расслоении многомерной сферы

(Integrable variable dissipation systems on tangent bundle
of multi-dimensional sphere)

M. V. Шамолин (M. V. Shamolin) 107

Iterated monodromy groups and invariant trees

Anastasia Shepelevtseva 111

Ляпунов нестабильные глобальные атTRACTоры

Ivan Shilin 113

Дискретный комплексный анализ: сходимость результатов

Mikhail Skopenkov 115

Бифуркация удвоения ведущих элементов R -метода Гаусса

на подпоследовательности, порожденной процедурой Сильвестра

(Doubling bifurcation of the leading elements of the Gauss R -method
on a subsequence generated by the Sylvester procedure)

P. N. Сорокин (P. N. Sorokin), Н. Н. Чентцова (N. N. Chentsova) 116

Оценки возмущения резольвент краевых задач на многообразии

(Estimates of resolvent perturbation of boundary value problems
on a manifold)

A. M. Степин (A. M. Stepin), И. В. Цылин (I. V. Tsytlin) 120

Пространства нестягиваемых замкнутых кривых в компактных
пространственных формах

(The spaces of non-contractible closed curves in compact space forms)

И. А. Тайманов (I. A. Taimanov) 124

A metric property of smooth dynamical systems

Jean-Paul Thouvenot 127

Quantitative aspects of the shadowing property

Sergey Tikhomirov 127

Generic mixing actions

Sergey Tikhonov 128

Аналитические свойства решений трехмерной нелинейной
динамической системы

(Analytical properties of solutions of three-dimensional nonlinear
dynamical system)

B. В. Цегельник (V. V. Tsegel'nik) 130

Поведение резольвенты краевых задач в областях с трещинами
(Resolvent behavior of boundary value problems on domains
with cracks)

<i>I. V. Tsylin</i>	133
Averaging over a non-ergodic subsystem <i>Dmitry Turaev</i>	135
How to define a notion of hyperbolicity of a dynamical system in terms of measure preserving transformations (without smoothness and topology) <i>A. M. Vershik</i>	138
Smooth models and the Anosov–Katok method <i>Benjamin Weiss</i>	139
Topological and measurable aspects of multiple ergodic averages <i>Xiangdong Ye</i>	139
Условие единственности геодезических в игре ‘Лев и человек’ (Uniqueness of geodesics in the Lion and Man game) <i>O. O. Юферева (O. O. Yuferova)</i>	142
Some problems on pseudo-Anosov homeomorphisms <i>Alexey Zhirov</i>	144