Geodesic And Horocyclic Trajectories

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Geodesic And Horocyclic Trajectories

Geodesic and Horocyclic Trajectories presents an introduction to the

topological dynamics of two classical flows associated with surfaces of curvature −1, namely the geodesic and horocycle flows.

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and to determine, for example, the existence of trajectories which are dense in the non-wandering set Ω h(T1S) of this ﬂow (Sects. V.2 and V.3). When the group Γ is geometrically ﬁnite, the dynamics of the

horocycle flow, unlike that of the geodesic flow, is simple since a trajectory in Ω h(T1S)iseither dense or periodic (Sect. V.4).

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trajectory is not assumed to be a constant across the cohort (subjects). Our method involves parallel transporting the tangent vectors along each given trajectory (not necessar-ily a geodesic on the known data manifold) to the starting point of the respective given

trajectories and then using the span of the matrix whose columns consist of ...

A Geometric Framework for Statistical Analysis of ...
F. Dal'Bo, Geodesic and Horocyclic Trajectories. Universitext (Springer/EDP Sciences, London/Les Ulis, 2011); Translated from the 2007 French original. MR 2766419 Google Scholar [Dan78] S.G. Dani, Invariant measures of horospherical flows on noncompact homogeneous spaces. Invent. Math.

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Dynamics of geodesic and horocyclic flows BarbaraSchapira May25,2016 IRMAR, UMR CNRS 6625, Universit´e Rennes 1, Rennes France 1 Introduction These notes were written for lectures at CIRM in spring

2014, where I presented in a unified way classical dynamical and ergodic properties of the horocyclic flow. Therefore, the writing is unformal.

Dynamics of Geodesic and Horocyclic Flows

In geometry, a geodesic (/ ˌ dʒ iː ə ˈ d ɛ s ɪ k, ˌ dʒ iː oʊ -, - ˈ d iː -, - z ɪ k /) is commonly a curve representing in some sense the shortest path between two points in a surface, or more generally in a Riemannian manifold.The term also has meaning in any differentiable manifold with a connection.It is a generalization of the notion of a "straight line" to a more general setting.

Geodesic - Wikipedia

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In general relativity, a geodesic generalizes the notion of a "straight line" to curved spacetime.Importantly, the world line of a particle free from all external, non-gravitational forces is a particular type of geodesic. In other words, a freely moving or falling particle always moves along a geodesic. In general relativity, gravity can be regarded as not a force but a consequence of a ...

Geodesics in general relativity - Wikipedia

Geodesic and Horocyclic Trajectories provides an introduction to the topological dynamics of classical flows. The text highlights gateways between some mathematical fields in an elementary framework, and describes the advantages of using them.

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Geodesic and Horocyclic Trajectories presents an introduction to the topological dynamics of two classical flows associated with surfaces of curvature −1, namely the geodesic and horocycle flows. Written primarily with the idea of highlighting, in a relatively elementary framework, the existence of gateways between some mathematical fields, and the advantages of using them, historical aspects of this field are not addressed and most of the references are reserved until the end of each chapter in the Comments section. Topics within the text cover geometry, and examples, of Fuchsian groups; topological dynamics of the geodesic flow; Schottky groups; the Lorentzian point of view and Trajectories and Diophantine approximations.

Focussing on the mathematics related to the recent proof of ergodicity of the (Weil–Petersson) geodesic flow on a nonpositively curved space whose points are negatively curved metrics on surfaces, this book provides a broad introduction to an important current area of research. It offers original textbook-level material suitable for introductory or advanced courses as well as deep insights into the state of the art of the field, making it useful as a reference and for self-study. The first chapters introduce hyperbolic dynamics, ergodic

theory and geodesic and horocycle flows, and include an English translation of Hadamard's original proof of the Stable-Manifold Theorem. An outline of the strategy, motivation and context behind the ergodicity proof is followed by a careful exposition of it (using the Hopf argument) and of the pertinent context of Teichmüller theory. Finally, some complementary lectures describe the deep connections between geodesic flows in negative curvature and Diophantine approximation.

The study of continuous dynamical systems via surfaces of section is one of the standard techniques in nonlinear mathematics. This is done by considering the intersections of trajectories in a phase space with a subspace of codimension one. The sought for goal is simplifying the study of the original dynamical system. In this manuscript thesis, we consider cross sections to the horocycle and geodesic flows on quotients of SL(2,R) by the Hecke triangle groups, and applications to Farey statistics and symbolic dynamics.

This book contains carefully revised and expanded versions of eight courses that were presented at the University of Strasbourg during two geometry master classes in 2008 and 2009. The aim of the master classes was to give fifth-year students and Ph.D. students in

mathematics the opportunity to learn new topics that lead directly to the current research in geometry and topology. The courses were taught by leading experts. The subjects treated include hyperbolic geometry, three-manifold topology, representation theory of fundamental groups of surfaces and of three-manifolds, dynamics on the hyperbolic plane with applications to number theory, Riemann surfaces, Teichmuller theory, Lie groups, and asymptotic geometry. The text is aimed at graduate students and research mathematicians. It can also be used as a reference book and as a textbook for short courses on geometry.

This text is an introduction to the spectral theory of the Laplacian on compact or finite area hyperbolic surfaces. For some of these surfaces, called “arithmetic hyperbolic surfaces”, the eigenfunctions are of arithmetic nature, and one may use analytic tools as well as powerful methods in number theory to study them. After an introduction to the hyperbolic geometry of surfaces, with a special emphasis on those of arithmetic type, and then an introduction to spectral analytic methods on the Laplace operator on these surfaces, the author develops the analogy between geometry (closed geodesics) and arithmetic (prime numbers) in proving the Selberg trace formula. Along with important number theoretic applications, the author exhibits applications of these tools to the spectral statistics of the

Laplacian and the quantum unique ergodicity property. The latter refers to the arithmetic quantum unique ergodicity theorem, recently proved by Elon Lindenstrauss. The fruit of several graduate level courses at Orsay and Jussieu, The Spectrum of Hyperbolic Surfaces allows the reader to review an array of classical results and then to be led towards very active areas in modern mathematics.

This volume presents some of the lectures and research during the special programme held at the Newton Institute in 1994. The two parts each contain a mix of substantial expository articles and research papers that outline important and topical ideas. Many of the results have not been presented before, and the lectures on Floer homology is the first avaliable in book form.Symplectic methods are one of the most active areas of research in mathematics currently, and this volume will attract much attention.

This book focuses on the interactions between discrete and geometric dynamical systems, and between dynamical systems and theoretical physics and computer science. Accordingly, the contributions revolve around two main topics: (1) interaction between geometric and symbolic

systems, with emphasis on tiling problems for quasicrystals, substitutions and their multidimensional generalizations, geodesic and horocycle flow, adic systems; (2) dynamical systems: geometry and chaos, with special interest in smooth ergodic theory, statistical and multifractal properties of chaotic systems, stability and turbulence in extended complex systems. Contents: Complex Behavior in Extended System: Beyond the Lyapunov Exponent (M Cencini et al.)Generic Points via Large Deviation Theory (J T Lewis et al.)Geometry, Dynamics and Thermodynamics (H H Rugh)Iteration of Maps by Primitive Substitutive Sequences (C Holton & L Q Zamboni)Certain Partitions of a Lattice (J-I Tamura)Report on the Dynamics of Certain Piecewise Isometries of the Torus (R Adler et al.)Branched Coverings and Closed Geodesics in Flat Surfaces, with Applications to Billiards (E Gutkin)Interval Translation Mappings (J Schmeling & S Troubetkoy)and other papers Readership: Graduates and researchers in chaos and dynamical systems. Keywords:Lyapunov Exponent;Dynamics;Thermodynamics;Iteration of Maps;Lattice;Interval Translation Mappings

This EMS volume, the first edition of which was published as Dynamical Systems II, EMS 2, familiarizes the reader with the fundamental ideas and results of modern ergodic theory and its applications to dynamical systems and statistical mechanics. The enlarged and revised second

edition adds two new contributions on ergodic theory of flows on homogeneous manifolds and on methods of algebraic geometry in the theory of interval exchange transformations.

This volume contains the proceedings of the semester-long special program on Hyperbolic Dynamics, Large Deviations and Fluctuations, which was held from January-June 2013, at the Centre Interfacultaire Bernoulli, École Polytechnique Fédérale de Lausanne, Switzerland. The broad theme of the program was the long-term behavior of dynamical systems and their statistical behavior. During the last 50 years, the statistical properties of dynamical systems of many different types have been the subject of extensive study in statistical mechanics and thermodynamics, ergodic and probability theories, and some areas of mathematical physics. The results of this study have had a profound effect on many different areas in mathematics, physics, engineering and biology. The papers in this volume cover topics in large deviations and thermodynamics formalism and limit theorems for dynamic systems. The material presented is primarily directed at researchers and graduate students in the very broad area of dynamical systems and ergodic theory, but will also be of interest to researchers in related areas such as statistical physics, spectral theory and some aspects of number theory and geometry.