

Masayuki Asaoka
Aziz El Kacimi Alaoui
Steven Hurder
Ken Richardson

Foliations: Dynamics, Geometry and Topology



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Foliations Dynamics Geometry And Topology Advanced Courses In Mathematics Crm Barcelona

Arkady Leonidovich Kholodenko



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Foliations: Dynamics, Geometry and Topology Masayuki Asaoka, Aziz El Kacimi Alaoui, Steven Hurder, Ken Richardson, 2014-10-07 This book is an introduction to several active research topics in Foliation Theory and its connections with other areas It contains expository lectures showing the diversity of ideas and methods converging in the study of foliations The lectures by Aziz El Kacimi Alaoui provide an introduction to Foliation Theory with emphasis on examples and transverse structures Steven Hurder's lectures apply ideas from smooth dynamical systems to develop useful concepts in the study of foliations limit sets and cycles for leaves leafwise geodesic flow transverse exponents Pesin Theory and hyperbolic parabolic and elliptic types of foliations The lectures by Masayuki Asaoka compute the leafwise cohomology of foliations given by actions of Lie groups and apply it to describe deformation of those actions In his lectures Ken Richardson studies the properties of transverse Dirac operators for Riemannian foliations and compact Lie group actions and explains a recently proved index formula Besides students and researchers of Foliation Theory this book will be interesting for mathematicians interested in the applications to foliations of subjects like Topology of Manifolds Differential Geometry Dynamics Cohomology or Global Analysis

Arithmetic Geometry over Global Function Fields Gebhard Böckle, David Burns, David Goss, Dinesh Thakur, Fabien Trihan, Douglas Ulmer, 2014-11-13 This volume collects the texts of five courses given in the Arithmetic Geometry Research Programme 2009 2010 at the CRM Barcelona All of them deal with characteristic p global fields the common theme around which they are centered is the arithmetic of L functions and other special functions investigated in various aspects Three courses examine some of the most important recent ideas in the positive characteristic theory discovered by Goss a field in tumultuous development which is seeing a number of spectacular advances they cover respectively crystals over function fields with a number of applications to L functions of t motives gamma and zeta functions in characteristic p and the binomial theorem The other two are focused on topics closer to the classical theory of abelian varieties over number fields they give respectively a thorough introduction to the arithmetic of Jacobians over function fields including the current status of the BSD conjecture and its geometric analogues and the construction of Mordell Weil groups of high rank and a state of the art survey of Geometric Iwasawa Theory explaining the recent proofs of various versions of the Main Conjecture in the commutative and non commutative settings

Moduli of Weighted Hyperplane Arrangements Valery Alexeev, 2015-05-18 This book focuses on a large class of geometric objects in moduli theory and provides explicit computations to investigate their families Concrete examples are developed that take advantage of the intricate interplay between Algebraic Geometry and Combinatorics Compactifications of moduli spaces play a crucial role in Number Theory String Theory and Quantum Field Theory to mention just a few In particular the notion of compactification of moduli spaces has been crucial for solving various open problems and long standing conjectures Further the book reports on compactification techniques for moduli spaces in a large class where computations are possible namely that of weighted

stable hyperplane arrangements shas *Geometry, Dynamics, and Topology of Foliations* Bruno Scárdua, 2017 The Geometric Theory of Foliations is one of the fields in Mathematics that gathers several distinct domains Topology Dynamical Systems Differential Topology and Geometry among others Its great development has allowed a better comprehension of several phenomena of mathematical and physical nature Our book contains material dating from the origins of the theory of foliations from the original works of C Ehresmann and G Reeb up till modern developments In a suitable choice of topics we are able to cover material in a coherent way bringing the reader to the heart of recent results in the field A number of theorems nowadays considered to be classical like the Reeb Stability Theorem Haefliger s Theorem and Novikov Compact leaf Theorem are proved in the text The stability theorem of Thurston and the compact leaf theorem of Plante are also thoroughly proved Nevertheless these notes are introductory and cover only a minor part of the basic aspects of the rich theory of foliations Publisher s website [Geometry, Dynamics, and Topology of Foliations](#) Bruno Scárdua, Carlos Arnoldo Morales Rojas, 2017 The geometric theory of foliations is one of the fields in mathematics that gathers several distinct domains topology dynamical systems differential topology and geometry among others Containing material dating from the origins of the theory of foliations this volume also brings readers to the heart of recent results in the field **Geometry and Dynamics of Integrable Systems** Alexey Bolsinov, Juan J. Morales-Ruiz, Nguyen Tien Zung, 2016-10-27 Based on lectures given at an advanced course on integrable systems at the Centre de Recerca Matemàtica in Barcelona these lecture notes address three major aspects of integrable systems obstructions to integrability from differential Galois theory the description of singularities of integrable systems on the basis of their relation to bi Hamiltonian systems and the generalization of integrable systems to the non Hamiltonian settings All three sections were written by top experts in their respective fields Native to actual problem solving challenges in mechanics the topic of integrable systems is currently at the crossroads of several disciplines in pure and applied mathematics and also has important interactions with physics The study of integrable systems also actively employs methods from differential geometry Moreover it is extremely important in symplectic geometry and Hamiltonian dynamics and has strong correlations with mathematical physics Lie theory and algebraic geometry including mirror symmetry As such the book will appeal to experts with a wide range of backgrounds **Advanced courses in mathematics - CRM Barcelona** Centre de Recerca Matemàtica (Barcelona), 19?? **Geometry, Topology, and Dynamics** François Lalonde, 1998 This is a collection of papers written by leading experts They are all clear comprehensive and original The volume covers a complete range of exciting and new developments in symplectic and contact geometries **Advanced Courses in Mathematics CRM Barcelona** , 200? **Geometry and Quantization of Moduli Spaces** Vladimir Fock, Andrey Marshakov, Florent Schaffhauser, Constantin Teleman, Richard Wentworth, 2017-01-06 This volume is based on four advanced courses held at the Centre de Recerca Matemàtica CRM Barcelona It presents both background information and recent developments on selected topics that are experiencing extraordinary growth within the broad

research area of geometry and quantization of moduli spaces The lectures focus on the geometry of moduli spaces which are mostly associated to compact Riemann surfaces and are presented from both classical and quantum perspectives Global Riemannian Geometry: Curvature and Topology Ana Hurtado, Steen Markvorsen, Maung Min-Oo, Vicente Palmer, 2020-08-19 This book contains a clear exposition of two contemporary topics in modern differential geometry distance geometric analysis on manifolds in particular comparison theory for distance functions in spaces which have well defined bounds on their curvature the application of the Lichnerowicz formula for Dirac operators to the study of Gromov's invariants to measure the K theoretic size of a Riemannian manifold It is intended for both graduate students and researchers **Extrinsic Geometry of Foliations** Vladimir Rovenski, Paweł Walczak, 2021-05-22 This book is devoted to geometric problems of foliation theory in particular those related to extrinsic geometry modern branch of Riemannian Geometry The concept of mixed curvature is central to the discussion and a version of the deep problem of the Ricci curvature for the case of mixed curvature of foliations is examined The book is divided into five chapters that deal with integral and variation formulas and curvature and dynamics of foliations Different approaches and methods local and global regular and singular in solving the problems are described using integral and variation formulas extrinsic geometric flows generalizations of the Ricci and scalar curvatures pseudo Riemannian and metric affine geometries and computable Finsler metrics The book presents the state of the art in geometric and analytical theory of foliations as a continuation of the authors life long work in extrinsic geometry It is designed for newcomers to the field as well as experienced geometers working in Riemannian geometry foliation theory differential topology and a wide range of researchers in differential equations and their applications It may also be a useful supplement to postgraduate level work and can inspire new interesting topics to explore Integral Geometry and Valuations Semyon Alesker, Joseph H.G. Fu, 2014-10-09 In the last years there has been significant progress in the theory of valuations which in turn has led to important achievements in integral geometry This book originated from two courses delivered by the authors at the CRM and provides a self contained introduction to these topics covering most of the recent advances The first part by Semyon Alesker provides an introduction to the theory of convex valuations with emphasis on recent developments In particular it presents the new structures on the space of valuations discovered after Alesker's irreducibility theorem The newly developed theory of valuations on manifolds is also described In the second part Joseph H G Fu gives a modern introduction to integral geometry in the sense of Blaschke and Santaló The approach is new and based on the notions and tools presented in the first part This original viewpoint not only enlightens the classical integral geometry of euclidean space but it also allows the computation of kinematic formulas in other geometries such as hermitian spaces The book will appeal to graduate students and interested researchers from related fields including convex stochastic and differential geometry *Applications of Contact Geometry and Topology in Physics* Arkady Leonidovich Kholodenko, 2013 Although contact geometry and topology is briefly discussed in V I Arnol d's book *Mathematical Methods of Classical Mechanics* Springer

Verlag 1989 2nd edition it still remains a domain of research in pure mathematics e g see the recent monograph by H Geiges An Introduction to Contact Topology Cambridge U Press 2008 Some attempts to use contact geometry in physics were made in the monograph Contact Geometry and Nonlinear Differential Equations Cambridge U Press 2007 Unfortunately even the excellent style of this monograph is not sufficient to attract the attention of the physics community to this type of problems This book is the first serious attempt to change the existing status quo In it we demonstrate that in fact all branches of theoretical physics can be rewritten in the language of contact geometry and topology from mechanics thermodynamics and electrodynamics to optics gauge fields and gravity from physics of liquid crystals to quantum mechanics and quantum computers etc The book is written in the style of famous Landau Lifshitz L L multivolume course in theoretical physics This means that its readers are expected to have solid background in theoretical physics at least at the level of the L L course No prior knowledge of specialized mathematics is required All needed new mathematics is given in the context of discussed physical problems As in the L L course some problems exercises are formulated along the way and again as in the L L course these are always supplemented by either solutions or by hints with exact references Unlike the L L course though some definitions theorems and remarks are also presented This is done with the purpose of stimulating the interest of our readers in deeper study of subject matters discussed in the text

Geometry, Topology, and Dynamics in Negative Curvature C. S. Aravinda, F. T. Farrell, J. -F. Lafont, 2016-01-21 The ICM 2010 satellite conference Geometry Topology and Dynamics in Negative Curvature afforded an excellent opportunity to discuss various aspects of this fascinating interdisciplinary subject in which methods and techniques from geometry topology and dynamics often interact in novel and interesting ways Containing ten survey articles written by some of the leading experts in the field this proceedings volume provides an overview of important recent developments relating to negative curvature Topics covered include homogeneous dynamics harmonic manifolds the Atiyah Conjecture counting circles and arcs and hyperbolic buildings Each author pays particular attention to the expository aspects making the book particularly useful for graduate students and mathematicians interested in transitioning from other areas via the common theme of negative curvature

Foliations on Surfaces Igor Nikolaev, 2000-12-01 This book presents a comprehensive encyclopedic approach to the subject of foliations one of the major concepts of modern geometry and topology It addresses graduate students and researchers and serves as a reference book for experts in the field

Geometry and Topology in Dynamics Marcy Barge, Krystyna Kuperberg, 1999 This volume consists of the written presentations of lectures given at two special sessions the AMS Special Session on Topology in Dynamics Winston Salem NC and the AMS AWM Special Session on Geometry in Dynamics San Antonio TX Each article concerns aspects of the topology or geometry of dynamical systems Topics covered include the following foliations and laminations iterated function systems the three body problem isotopy stability homoclinic tangles fractal dimension Morse homology knotted orbits inverse limits contact structures Grassmanians blowups and continua New results are presented

reflecting current trends in topological aspects of dynamical systems The book offers a wide variety of topics of special interest to those working this area bridging topology and dynamical systems Strasbourg Master Class on Geometry Athanase Papadopoulos,2012 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 Teichmüller 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 *Introduction to Geometry and Topology* Werner Ballmann,2018-07-18 This book provides an introduction to topology differential topology and differential geometry It is based on manuscripts refined through use in a variety of lecture courses The first chapter covers elementary results and concepts from point set topology An exception is the Jordan Curve Theorem which is proved for polygonal paths and is intended to give students a first glimpse into the nature of deeper topological problems The second chapter of the book introduces manifolds and Lie groups and examines a wide assortment of examples Further discussion explores tangent bundles vector bundles differentials vector fields and Lie brackets of vector fields This discussion is deepened and expanded in the third chapter which introduces the de Rham cohomology and the oriented integral and gives proofs of the Brouwer Fixed Point Theorem the Jordan Brouwer Separation Theorem and Stokes's integral formula The fourth and final chapter is devoted to the fundamentals of differential geometry and traces the development of ideas from curves to submanifolds of Euclidean spaces Along the way the book discusses connections and curvature the central concepts of differential geometry The discussion culminates with the Gauss equations and the version of Gauss's theorem egregium for submanifolds of arbitrary dimension and codimension This book is primarily aimed at advanced undergraduates in mathematics and physics and is intended as the template for a one or two semester bachelor's course A Short Course in Computational Geometry and Topology Herbert Edelsbrunner,2014-04-28 This monograph presents a short course in computational geometry and topology In the first part the book covers Voronoi diagrams and Delaunay triangulations then it presents the theory of alpha complexes which play a crucial role in biology The central part of the book is the homology theory and their computation including the theory of persistence which is indispensable for applications e.g. shape reconstruction The target audience comprises researchers and practitioners in mathematics biology neuroscience and computer science but the book may also be beneficial to graduate students of these fields

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