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# Topology and Complex Structures of Leaves of Foliations by Riemann Surfaces

Nessim Sibony<sup>1</sup>, Erlend Fornaess Wold<sup>2</sup>

**Abstract:** We study conformal structure and topology of leaves of singular foliations by Riemann surfaces.

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"...Consequently, holomorphic foliations in  $\mathbb{P}^k$  are generically Brody hyperbolic, see Theorem 2.34 (f). The reader may find in [30] a nice discussion on the topology and the conformal structures of leaves of a singular holomorphic foliation which is Brody hyperbolic..."

**Section:** Regularity Of the Leafwise Poincaré Metric And Mass-  
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# Topology Of Foliations

**Masayuki Asaoka, Aziz El Kacimi  
Alaoui, Steven Hurder, Ken Richardson**



## **Topology Of Foliations:**

**Topology of Foliations: An Introduction** Ichirō Tamura, 1992 This book provides historical background and a complete overview of the qualitative theory of foliations and differential dynamical systems Senior mathematics majors and graduate students with background in multivariate calculus algebraic and differential topology differential geometry and linear algebra will find this book an accessible introduction Upon finishing the book readers will be prepared to take up research in this area Readers will appreciate the book for its highly visual presentation of examples in low dimensions The author focuses particularly on foliations with compact leaves covering all the important basic results Specific topics covered include dynamical systems on the torus and the three sphere local and global stability theorems for foliations the existence of compact leaves on three spheres and foliated cobordisms on three spheres Also included is a short introduction to the theory of differentiable manifolds

**Differential Topology, Foliations, and Group Actions** Paul A. Schweitzer, 1994 This volume contains the proceedings of the Workshop on Topology held at the Pontificia Universidade Catolica in Rio de Janeiro in January 1992 Bringing together about one hundred mathematicians from Brazil and around the world the workshop covered a variety of topics in differential and algebraic topology including group actions foliations low dimensional topology and connections to differential geometry The main concentration was on foliation theory but there was a lively exchange on other current topics in topology The volume contains an excellent list of open problems in foliation research prepared with the participation of some of the top world experts in this area Also presented here are two surveys on group actions finite group actions and rigidity theory for Anosov actions as well as an elementary survey of Thurston's geometric topology in dimensions 2 and 3 that would be accessible to advanced undergraduates and graduate students

**Geometry, Dynamics And Topology Of Foliations: A First Course** Bruno Scardua, Carlos Arnaldo Morales Rojas, 2017-02-16 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

**Topology of Foliations** Itiro Tamura, 1992 [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

**Topology of Foliations**, 1979

**Foliations, Geometry, and Topology** Nicolau Corção Saldanha, 2009 This volume represents the proceedings of the conference on Foliations Geometry and Topology held August 6 10 2007 in Rio de Janeiro Brazil in honor of the 70th birthday of Paul Schweitzer The papers concentrate on the theory of foliations and related areas such as dynamical systems group actions on low dimensional manifolds and geometry of hypersurfaces There are survey papers on classification of foliations and their dynamical properties including codimension one foliations with Bott Morse singularities Other papers involve the relationship of foliations with characteristic classes contact structures and Eliashberg Mishachev wrinkled mappings

**Foliations** Ichirō Tamura, 1985 The papers here discuss various aspects of the topology of foliations Foliations and C Algebras Characteristic Classes and Cobordisms of Foliations Dynamical Study of Transverse Foliations Stability and Topology of Leaves and Germs of Foliations

*Foliations II* Alberto Candel, Lawrence Conlon, 2000 This is the second of two volumes on foliations the first is Volume 23 of this series In this volume three specialized topics are treated analysis on foliated spaces characteristic classes of foliations and foliated three manifolds Each of these topics represents deep interaction between foliation theory and another highly developed area of mathematics In each case the goal is to provide students and other interested people with a substantial introduction to the topic leading to further study using the extensive available literature

**Foliations: Geometry And Dynamics - Proceedings Of The Euroworkshop** Lawrence Conlon, Remi Langevin, Takashi Tsuboi, Pawel Walczak, 2002-02-01 This volume contains surveys and research articles regarding different aspects of the theory of foliation The main aspects concern the topology of foliations of low dimensional manifolds the geometry of foliated Riemannian manifolds and the dynamical properties of foliations Among the surveys are lecture notes devoted to the analysis of some operator algebras on foliated manifolds and the theory of confoliations objects defined recently by W Thurston and Y Eliashberg situated between foliations and contact structures Among the research articles one can find a detailed proof of an unpublished theorem due to Duminy concerning ends of leaves in exceptional minimal sets

**Confoliations** Y. Eliashberg, William P. Thurston, 1998 This book presents the first steps of a theory of

confoliations designed to link geometry and topology of three dimensional contact structures with the geometry and topology of codimension one foliations on three dimensional manifolds Developing almost independently these theories at first glance belonged to two different worlds The theory of foliations is part of topology and dynamical systems while contact geometry is the odd dimensional brother of symplectic geometry However both theories have developed a number of striking similarities Confoliations which interpolate between contact structures and codimension one foliations should help us to understand better links between the two theories These links provide tools for transporting results from one field to the other

*Geometric Theory of Foliations* César Camacho, Alcides Lins Neto, 2013-11-11 Intuitively a foliation corresponds to a decomposition of a manifold into a union of connected disjoint submanifolds of the same dimension called leaves which pile up locally like pages of a book The theory of foliations as it is known began with the work of C Ehresmann and G Reeb in the 1940 s however as Reeb has himself observed already in the last century P Painleve saw the necessity of creating a geometric theory of foliations in order to better understand the problems in the study of solutions of holomorphic differential equations in the complex field The development of the theory of foliations was however provoked by the following question about the topology of manifolds proposed by H Hopf in the 1930 s Does there exist on the Euclidean sphere  $S^3$  a completely integrable vector field that is a field  $X$  such that  $X \text{ curl } X = 0$  By Frobenius theorem this question is equivalent to the following Does there exist on the 3 sphere  $S^3$  a two dimensional foliation This question was answered affirmatively by Reeb in his thesis where he presents an example of a foliation of  $S^3$  with the following characteristics There exists one compact leaf homeomorphic to the two dimensional torus while the other leaves are homeomorphic to two dimensional planes which accumulate asymptotically on the compact leaf Further the foliation is  $C^\infty$

Laminations and Foliations in Dynamics, Geometry and Topology Mikhail Lyubich, John Willard Milnor, Yair Nathan Minsky, 2001 This volume is based on a conference held at SUNY Stony Brook NY The concepts of laminations and foliations appear in a diverse number of fields such as topology geometry analytic differential equations holomorphic dynamics and renormalization theory Although these areas have developed deep relations each has developed distinct research fields with little interaction among practitioners The conference brought together the diverse points of view of researchers from different areas This book includes surveys and research papers reflecting the broad spectrum of themes presented at the event Of particular interest are the articles by F Bonahon Geodesic Laminations on Surfaces and D Gabai Three Lectures on Foliations and Laminations on 3 manifolds which are based on minicourses that took place during the conference

Introduction to the Geometry of Foliations, Part A Gilbert Hector, 2012-12-06 Foliation theory grew out of the theory of dynamical systems on manifolds and Ch Ehresmann s connection theory on fibre bundles Pioneer work was done between 1880 and 1940 by H Poincare I Bendixson H Kneser H Whitney and IV Kaplan to name a few who all studied regular curve families on surfaces and later by Ch Ehresmann G Reeb A Haefliger and others between 1940 and 1960 Since then the subject has developed from a collection of a few papers to a wide field of research nowadays one

usually distinguishes between two main branches of foliation theory the so called quantitative theory including homotopy theory and characteristic classes on the one hand and the qualitative or geometric theory on the other The present volume is the first part of a monograph on geometric aspects of foliations Our intention here is to present some fundamental concepts and results as well as a great number of ideas and examples of various types The selection of material from only one branch of the theory is conditioned not only by the authors personal interest but also by the wish to give a systematic and detailed treatment including complete proofs of all main results We hope that this goal has been achieved

*Foliations and the Geometry of 3-Manifolds* Danny Calegari, 2007-05-17 This unique reference aimed at research topologists gives an exposition of the pseudo-Anosov theory of foliations of 3-manifolds This theory generalizes Thurston's theory of surface automorphisms and reveals an intimate connection between dynamics geometry and topology in 3 dimensions Significant themes returned to throughout the text include the importance of geometry especially the hyperbolic geometry of surfaces the importance of monotonicity especially in 1-dimensional and co-dimensional dynamics and combinatorial approximation using finite combinatorial objects such as train tracks branched surfaces and hierarchies to carry more complicated continuous objects

*Geometry of Foliations* Philippe Tondeur, 1997-05 Surveys research over the past few years at a level accessible to graduate students and researchers with a background in differential and Riemannian geometry Among the topics are foliations of codimension one holonomy Lie foliations basic forms mean curvature the Hodge theory for the transversal Laplacian applications of the heat equation method to Riemannian foliations the spectral theory Connes perspective of foliations as examples of non-commutative spaces and infinite dimensional examples The bibliographic appendices list books and surveys on particular aspects of foliations proceedings of conferences and symposia all papers on the subject up to 1995 and the numbers of papers published on the subject during the years 1990-95 Annotation copyrighted by Book News Inc Portland OR

*Geometric Study Of Foliations - Proceedings Of The International Symposium/workshop* Tadayoshi Mizutani, Kazuo Masuda, Shigenori Matsumoto, Takashi Inaba, Takashi Tsuboi, Yoshihiko Mitsumatsu, 1994-12-16 This book covers recent topics in various aspects of foliation theory and its relation with other areas including dynamical systems C-algebras index theory and low dimensional topology It contains survey articles by G Hector S Hurder and P Molino as well as more than 20 original papers by specialists who are currently most active in the field

**Foliations on Surfaces** Igor Nikolaev, 2001-01-12 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

Foliations Alberto Candel, Lawrence Conlon, 2000

**Foliations 2005** Pawel Grzegorz Walczak, 2006 This volume takes a look at the current state of the theory of foliations with surveys and research articles concerning different aspects The focused aspects cover geometry of foliated Riemannian manifolds Riemannian foliations and dynamical properties of foliations and some aspects of classical dynamics related to the field Among the articles readers may

find a study of foliations which admit a transverse contractive flow an extensive survey on non commutative geometry of Riemannian foliations an article on contact structures converging to foliations as well as a few articles on conformal geometry of foliations This volume also contains a list of open problems in foliation theory which were collected from the participants of the Foliation 2005 conference Sample Chapter s Chapter 1 Morphisms of Pseudogroups and foliated Maps 808 KB Contents Morphisms of Pseudogroups and Foliated Maps J ulvarez Lpez On Infinitesimal Derivatives of the Bott Class T A Duke Hirsch Foliations in Codimension Greater Than One A Bis S Hurder Extrinsic Geometry of Foliations on 3 Manifolds D Bolotov Extrinsic Geometry of Foliations M Czarnecki Transversal Twistor Spinors on a Riemannian Foliation S D Jung A Survey on Simplicial Volume and Invariants of Foliations and Laminations T Kuessner Harmonic Foliations of the Plane a Conformal Approach R Langevin Consecutive Shifts Along Orbits of Vector Fields S Maksymenko Generalized Equivariant Index Theory K Richardson Vanishing Results for Spectral Terms of a Riemannian Foliation V Slesar On the Group of Foliation Preserving Diffeomorphisms T Tsuboi and other papers Readership Researchers and graduate students in such areas of mathematics as foliations dynamical systems Anosov and Morse Smale in particular Riemannian and conformal geometry and in other fields such as mathematical physics non commutative geometry and analysis on manifolds

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