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Negative Exterior Curvature Foliations on Compact Riemannian Manifolds

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ABSTRACT. The topological structure of compact Riemannian manifolds that admit hyperbolic foliations is studied.

KEY WORDS: Riemannian manifolds, parallelizability, hyperbolic foliations, curvature.

We consider compact Riemannian manifolds that admit hyperbolic foliations.

Definition. A foliation on a Riemannian manifold is called *hyperbolic* if the two-dimensional sectional curvature of its leaves is less than the two-dimensional sectional curvature of the ambient space along elements tangent to leaves.

If the dimension of the leaves is l, then the minimal dimension of an ambient space admitting a hyperbolic foliation equals $2l-1$.

Theorem. *Suppose that a simply connected compact Riemannian manifold M^{2l-1} admits a hyperbolic foliation F^l. If $l=2,3,4$, then the manifold M^{2l-1} is parallelizable.*

Remark. We believe that the conclusion of the theorem is valid for any $l \geq 2$.

Consider a system of quadratic equations

$$A^\alpha(X,X) = A^\alpha_{ij}x^i x^j = 0, \qquad i,j = 1,\dots,l, \quad \alpha = 1,\dots,N, \tag{1}$$

where $x^1,\dots,x^l$ are the coordinates of a vector X. The system (1) is homogeneous, and we do not distinguish between its solutions proportional to one another. Let $A(X,Y)$ be the vector with the coordinates $A^\alpha_{ij}x^i y^j$, and let $(\cdot,\cdot)$ denote the scalar product in the tangent space at a point of M^{2l-1}.

Lemma. *Suppose that $N=l-1$ in (1) and that the inequality*

$$(A(X,X),A(Y,Y)) - (A(X,Y),A(X,Y)) < 0 \tag{2}$$

holds whenever the vectors X and Y are not collinear. Then the system has 2^{l-1} real nonzero solutions, and, in particular, l linearly independent solutions. No plane contains three solutions; no three-dimensional subspace contains more than four solutions.

Proof. This statement is a generalization of Otsuki's lemma [1]. First let us show that all solutions of (1) are real up to a complex multiplier. Let $Z_0 = X_0 + iY_0$ be a complex solution of (1). Then we get

$$A(Z_0,Z_0) = A(X_0,X_0) - A(Y_0,Y_0) + 2iA(X_0,Y_0) = 0.$$

This implies that $A(X_0,X_0) = A(Y_0,Y_0)$ and $A(X_0,Y_0) = 0$. If $X_0 \neq \lambda Y_0$, then we have the inequality

$$(A(X_0,X_0),A(Y_0,Y_0)) - (A(X_0,Y_0),A(X_0,Y_0)) > 0,$$

which contradicts inequality (2).

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Foliations On Riemannian Manifolds Universitexts

Emil J. Straube

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Foliations on Riemannian Manifolds and Submanifolds Vladimir Rovenski,2012-12-06 This monograph is based on the author s results on the Riemannian ge ometry of foliations with nonnegative mixed curvature and on the geometry of sub manifolds with generators rulings in a Riemannian space of nonnegative curvature The main idea is that such foliated sub manifolds can be decom posed when the dimension of the leaves generators is large The methods of investigation are mostly synthetic The work is divided into two parts consisting of seven chapters and three appendices Appendix A was written jointly with V Toponogov Part 1 is devoted to the Riemannian geometry of foliations In the first few sections of Chapter I we give a survey of the basic results on foliated smooth manifolds Sections 1 1 1 3 and finish in Section 1 4 with a discussion of the key problem of this work the role of Riemannian curvature in the study of foliations on manifolds and submanifolds

Foliations on Riemannian Manifolds Philippe Tondeur,2012-12-06 A first approximation to the idea of a foliation is a dynamical system and the resulting decomposition of a domain by its trajectories This is an idea that dates back to the beginning of the theory of differential equations i e the seventeenth century Towards the end of the nineteenth century Poincare developed methods for the study of global qualitative properties of solutions of dynamical systems in situations where explicit solution methods had failed He discovered that the study of the geometry of the space of trajectories of a dynamical system reveals complex phenomena He emphasized the qualitative nature of these phenomena thereby giving strong impetus to topological methods A second approximation is the idea of a foliation as a decomposition of a manifold into submanifolds all being of the same dimension Here the presence of singular submanifolds corresponding to the singularities in the case of a dynamical system is excluded This is the case we treat in this text but it is by no means a comprehensive analysis On the contrary many situations in mathematical physics most definitely require singular foliations for a proper modeling The global study of foliations in the spirit of Poincare was begun only in the 1940 s by Ehresmann and Reeb

Geometry of Foliations Philippe Tondeur,2012-12-06 The topics in this survey volume concern research done on the differential geom etry of foliations over the last few years After a discussion of the basic concepts in the theory of foliations in the first four chapters the subject is narrowed down to Riemannian foliations on closed manifolds beginning with Chapter 5 Following the discussion of the special case of flows in Chapter 6 Chapters 7 and 8 are de voted to Hodge theory for the transversal Laplacian and applications of the heat equation method to Riemannian foliations Chapter 9 on Lie foliations is a prepa ration for the statement of Molino s Structure Theorem for Riemannian foliations in Chapter 10 Some aspects of the spectral theory for Riemannian foliations are discussed in Chapter 11 Connes point of view of foliations as examples of non commutative spaces is briefly described in Chapter 12 Chapter 13 applies ideas of Riemannian foliation theory to an infinite dimensional context Aside from the list of references on Riemannian foliations items on this list are referred to in the text by we have included several appendices as follows Appendix A is a list of books and surveys on particular aspects of foliations

Appendix B is a list of proceedings of conferences and symposia devoted partially or entirely to foliations Appendix C is a bibliography on foliations which attempts to be a reasonably complete list of papers and preprints on the subject of foliations up to 1995 and contains approximately 2500 titles *Geometry And Its Applications - Proceedings Of The Workshop In Honor Of Morio Obata* Masahiko Kanai,Tadashi Nagano,Hideki Omori,Yoshiaki Maeda,1993-07-06 In honour of the 65th birthday of Professor M Obata a workshop was held at Keio University This volume includes notes on the talks and discussions which took place and cover a wide range of subjects on geometry global analysis topology and mathematical physics 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 Differential Geometry: Riemannian Geometry Robert Everist Greene,Shing-Tung Yau,1993 The third of three parts comprising Volume 54 the proceedings of the Summer Research Institute on Differential Geometry held at the University of California Los Angeles July 1990 ISBN for the set is 0 8218 1493 1 Part 3 begins with an overview by R E Greene of some recent trends in Riemannia **Lectures on the L2-Sobolev Theory of the [d-bar]-Neumann Problem** Emil J. Straube,2010 This book provides a thorough and self contained introduction to the bar partial Neumann problem leading up to current research in the context of the mathcal L 2 Sobolev theory on bounded pseudoconvex domains in mathbb C n It grew out of courses for advanced graduate students and young researchers given by the author at the Erwin Schrodinger International Institute for Mathematical Physics and at Texas A M University The introductory chapter provides an overview of the contents and puts them in historical perspective The second chapter presents the basic mathcal L 2 theory Following is a chapter on the subelliptic estimates on strictly pseudoconvex domains The two final chapters on compactness and on regularity in Sobolev spaces bring the reader to the frontiers of research Prerequisites are a solid background in basic complex and functional analysis including the elementary mathcal L 2 Sobolev theory and distributions Some knowledge in several complex variables is helpful Concerning partial differential equations not much is assumed The elliptic regularity of the Dirichlet problem for the Laplacian is quoted a few times but the ellipticity results needed for elliptic regularization in the third chapter are proved from scratch

Proceedings of the International Symposium/Workshop on Geometric Study of Foliations Tadayoshi

Mizutani,1994 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

Differential Geometry Elisabetta Barletta,Sorin Dragomir,Mohammad Hasan Shahid,Falleh R. Al-Solamy,2025-04-22 This book Differential Geometry Riemannian Geometry and Isometric Immersions Book I B is the first in a captivating series of four books presenting a choice of topics among fundamental and more advanced in differential geometry DG Starting with the basics of semi Riemannian geometry the book aims to develop the understanding of smooth 1 parameter variations of geodesics of and correspondingly of Jacobi fields A few algebraic aspects required by the treatment of the Riemann Christoffel four tensor and sectional curvature are successively presented Ricci curvature and Einstein manifolds are briefly discussed The Sasaki metric on the total space of the tangent bundle over a Riemannian manifold is built and its main properties are investigated An important integration technique on a Riemannian manifold related to the geometry of geodesics is presented for further applications The other three books of the series are Differential Geometry 1 Manifolds Bundle and Characteristic Classes Book I A Differential Geometry 3 Foundations of Cauchy Riemann and Pseudohermitian Geometry Book I C Differential Geometry 4 Advanced Topics in Cauchy Riemann and Pseudohermitian Geometry Book I D The four books belong to a larger book project Differential Geometry Partial Differential Equations and Mathematical Physics by the same authors aiming to demonstrate how certain portions of DG and the theory of partial differential equations apply to general relativity and quantum gravity theory These books supply some of the ad hoc DG machinery yet do not constitute a comprehensive treatise on DG but rather authors choice based on their scientific mathematical and physical interests These are centered around the theory of immersions isometric holomorphic Cauchy Riemann CR and pseudohermitian geometry as devised by Sidney Martin Webster for the study of nondegenerate CR structures themselves a DG manifestation of the tangential CR equations **Progress in Inverse Spectral Geometry** Stig I. Andersson,Michel L. Lapidus,2012-12-06 Most polynomial growth on every half space Re z c Moreover Op t depends holomorphically on t for Re t O General references for much of the material on the derivation of spectral functions asymptotic expansions and analytic properties of spectral functions are A P S and Sh especially Chapter 2 To study the spectral functions and their relation to the geometry and topology of X one could for example take the natural associated parabolic problem as a starting point That is consider the heat equation %t p u x t 0 u x O Uo x tP which is solved by means of the heat semi group V t e namely u t V t uoU Assuming that V t is of trace class which is guaranteed for instance if P has a positive principal symbol it has a Schwartz kernel K E COO X x X x Rt E E locally given by 00 K x y t L IAk k Pk X y k O for a complete set of orthonormal eigensections Pk E COO E Taking the trace we then obtain 00 tA Op t trace V t 2 k k O Now using e g the Dunford calculus formula where C is a suitable curve around a P as a starting point and the standard for malism of pseudodifferential operators one easily derives

asymptotic expansions for the spectral functions in this case for Op **Locally Conformal Kähler Geometry** Sorin Dragomir,Liuiu Ornea,2012-12-06 E C 0 1 1 1 and n E Z n 2 Let be the O dimensional Lie n group generated by the transformation z z z E C a Then cf **Geometry of Vector Fields** Yu. Aminov,2000-02-23 Presenting a classical approach to the foundations and development of the geometry of vector fields this volume space three orthogonal systems and applications in mechanics Other topics including vector fields Pfaff forms and systems in n dimensional space foliations and Godbillon Vey invariant are also considered There is much interest in the study of geometrical objects in n dimensional Euclidean space and this volume provides a useful and comprehensive presentation *New Trends in Sub-Riemannian Geometry* Fabrice Baudoin,Luca Rizzi,2025-01-27 This volume contains the proceedings of the AMS EMS SMF Special Session on Sub Riemannian Geometry and Interactions held from July 18 20 2022 at the Universit de Grenoble Alpes Grenoble France Sub Riemannian geometry is a generalization of Riemannian one where a smooth metric is defined only on a preferred subset of tangent directions Under the so called H rmander condition all points are connected by finite length curves giving rise to a well defined metric space Sub Riemannian geometry is nowadays a lively branch of mathematics connected with probability harmonic and complex analysis subelliptic PDEs geometric measure theory optimal transport calculus of variations and potential analysis The articles in this volume present some developments of a broad range of topics in sub Riemannian geometry including the theory of sub elliptic operators holonomy spectral theory and the geometry of the exponential map *Global Differential Geometry and Global Analysis* Dirk Ferus,Ulrich Pinkall,Udo Simon,Berd Wegner,2006-11-14 All papers appearing in this volume are original research articles and have not been published elsewhere They meet the requirements that are necessary for publication in a good quality primary journal E Belchev S Hineva On the minimal hypersurfaces of a locally symmetric manifold N Blasic N Bokan P Gilkey The spectral geometry of the Laplacian and the conformal Laplacian for manifolds with boundary J Bolton W M Oxbury L Vrancken L M Woodward Minimal immersions of RP2 into CPn W Cieslak A Miernowski W Mozgawa Isoptics of a strictly convex curve F Dillen L Vrancken Generalized Cayley surfaces A Ferrandez O J Garay P Lucas On a certain class of conformally flat Euclidean hypersurfaces P Gauduchon Self dual manifolds with non negative Ricci operator B Hajduk On the obstruction group toexistence of Riemannian metrics of positive scalar curvature U Hammenstaedt Compact manifolds with 1 4 pinched negative curvature J Jost Xiaowei Peng The geometry of moduli spaces of stable vector bundles over Riemannian surfaces O Kowalski F Tricerri A canonical connection for locally homogeneous Riemannian manifolds M Kozlowski Some improper affine spheres in A3 R Kusner A maximum principle at infinity and the topology of complete embedded surfaces with constant mean curvature Anmin Li Affine completeness and Euclidean completeness U Lumiste On submanifolds with parallel higher order fundamental form in Euclidean spaces A Martinez F Milan Convex affine surfaces with constant affine mean curvature M Min Oo E A Ruh P Tondeur Transversal curvature and tautness for Riemannian foliations S Montiel A Ros Schroedinger operators associated to

a holomorphic map D Motreanu Generic existence of Morse functions on infinite dimensional Riemannian manifolds and applications B Opozda Some extensions of Radon s theorem **Principles of Locally Conformally Kähler Geometry** Liviu Ornea,Misha Verbitsky,2024-05-02 This monograph introduces readers to locally conformally K hler LCK geometry and provides an extensive overview of the most current results A rapidly developing area in complex geometry dealing with non K hler manifolds LCK geometry has strong links to many other areas of mathematics including algebraic geometry topology and complex analysis The authors emphasize these connections to create a unified and rigorous treatment of the subject suitable for both students and researchers Part I builds the necessary foundations for those approaching LCK geometry for the first time with full mostly self contained proofs and also covers material often omitted from textbooks such as contact and Sasakian geometry orbifolds Ehresmann connections and foliation theory More advanced topics are then treated in Part II including non K hler elliptic surfaces cohomology of holomorphic vector bundles on Hopf manifolds Kuranishi and Teichm ller spaces for LCK manifolds with potential and harmonic forms on Sasakian and Vaisman manifolds Each chapter in Parts I and II begins with motivation and historic context for the topics explored and includes numerous exercises for further exploration of important topics Part III surveys the current research on LCK geometry describing advances on topics such as automorphism groups on LCK manifolds twisted Hamiltonian actions and LCK reduction Einstein Weyl manifolds and the Futaki invariant and LCK geometry on nilmanifolds and on solvmanifolds New proofs of many results are given using the methods developed earlier in the text The text then concludes with a chapter that gathers over 100 open problems with context and remarks provided where possible to inspire future research **Stochastic Partial Differential Equations and Related Fields** Andreas Eberle,Martin Grothaus,Walter Hoh,Moritz Kassmann,Wilhelm Stannat,Gerald Trutnau,2018-07-03 This Festschrift contains five research surveys and thirty four shorter contributions by participants of the conference Stochastic Partial Differential Equations and Related Fields hosted by the Faculty of Mathematics at Bielefeld University October 10 14 2016 The conference attended by more than 140 participants including PostDocs and PhD students was held both to honor Michael R ckner s contributions to the field on the occasion of his 60th birthday and to bring together leading scientists and young researchers to present the current state of the art and promising future developments Each article introduces a well described field related to Stochastic Partial Differential Equations and Stochastic Analysis in general In particular the longer surveys focus on Dirichlet forms and Potential theory the analysis of Kolmogorov operators Fokker Planck equations in Hilbert spaces the theory of variational solutions to stochastic partial differential equations singular stochastic partial differential equations and their applications in mathematical physics as well as on the theory of regularity structures and paracontrolled distributions The numerous research surveys make the volume especially useful for graduate students and researchers who wish to start work in the above mentioned areas or who want to be informed about the current state of the art *New Developments in Differential Geometry, Budapest 1996* J. Szenthe,2012-12-06 Proceedings of the

Conference on Differential Geometry Budapest Hungary July 27 30 1996 **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 in1 dimensional and co dimensional dynamics and combinatorial approximation using finite combinatorical objects such as train tracks branched surfaces and hierarchies to carry more complicated continuous objects *Topics in Geometry* Simon Gindikin,1996-06-27 This collection of articles serves to commemorate the legacy of Joseph D Atri who passed away on April 29 1993 a few days after his 55th birthday Joe D Atri is credited with several fundamental discoveries in ge ometry In the beginning of his mathematical career Joe was interested in the generalization of symmetrical spaces in the E Cart an sense Symmetric spaces differentiated from other homogeneous manifolds by their geomet rical richness allows the development of a deep analysis Geometers have been constantly interested and challenged by the problem of extending the class of symmetric spaces so as to preserve their geometrical and analytical abundance The name of D Atri is tied to one of the most successful gen eralizations Riemann manifolds in which local geodesic symmetries are volume preserving up to sign In time it turned out that the majority of interesting generalizations of symmetrical spaces are D Atri spaces natu ral reductive homogeneous spaces Riemann manifolds whose geodesics are orbits of one parameter subgroups etc The central place in D Atri s research is occupied by homogeneous bounded domains in en which are not symmetric Such domains were discovered by Piatetskii Shapiro in 1959 and given Joe s strong interest in the generalization of symmetric spaces it was very natural for him to direct his research along this path Cohomological Theory of Dynamical Zeta Functions Andreas Juhl,2012-12-06 Dynamical zeta functions are associated to dynamical systems with a countable set of periodic orbits The dynamical zeta functions of the geodesic flow of lo cally symmetric spaces of rank one are known also as the generalized Selberg zeta functions The present book is concerned with these zeta functions from a cohomological point of view Originally the Selberg zeta function appeared in the spectral theory of automorphic forms and were suggested by an analogy between Weil s explicit formula for the Riemann zeta function and Selberg s trace formula 261 The purpose of the cohomological theory is to understand the analytical properties of the zeta functions on the basis of suitable analogs of the Lefschetz fixed point formula in which periodic orbits of the geodesic flow take the place of fixed points This approach is parallel to Weil s idea to analyze the zeta functions of pro jective algebraic varieties over finite fields on the basis of suitable versions of the Lefschetz fixed point formula The Lefschetz formula formalism shows that the divisors of the rational Hassc Wcil zeta functions are determined by the spectra of Frobenius operators on l adic cohomology

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