Singular Riemannian Foliations with Sections *

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November 2003

Abstract

A singular foliation on a complete riemannian manifold is said to be riemannian if every geodesic that is perpendicular at one point to a leaf remains perpendicular to every leaf it meets. In this paper we study singular riemannian foliations that have sections, i.e., totally geodesic complete immersed submanifolds that meet each leaf orthogonally and whose dimensions are the codimensions of the regular leaves.

We prove here that the restriction of the foliation to a slice of a leaf is diffeomorphic to an isoparametric foliation on an open set of an euclidian space. This result gives us local information about the singular foliation and in particular about the singular stratification of the foliation. It also allows us to describe the plaques of the foliation as level sets of a transnormal map (a generalisation of an isoparametric map). We also prove that the regular leaves of a singular riemannian foliation with sections are locally equifocal. We use this property to define a singular holonomy. Then we establish some results about this singular holonomy and illustrate them with a couple of examples.

^{*2000} Mathematics Subject Classifications, 53C12, 57R30
Key words and phrases. Singular riemannian foliations, isoparametric maps, equifocal submanifolds, isoparametric submanifolds, singular holonomy.

¹Supported by CNPq.

Riemannian Foliations Progreb In Mathematics S

Jürgen Jost

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Riemannian Foliations Molino, 2012-12-06 Foliation theory has its origins in the global analysis of solutions of ordinary differential equations on an n dimensional manifold M an autonomous differential equation is defined by a vector field X if this vector field has no singularities then its trajectories form a par tition of M into curves i e a foliation of codimension n 1 More generally a foliation F of codimension q on M corresponds to a partition of M into immersed submanifolds the leaves of dimension p n q The first global image that comes to mind is 1 that of a stack of plagues 1 Viewed laterally transver 1 1 sally the leaves of such a 1 1 stacking are the points of a 1 1 quotient manifold W of di L mension q W M Actually this image corresponds to an elementary type of folia tion that one says is simple For an arbitrary foliation it is only l u L ally on a simple open set U that the foliation appears as a stack of plagues and admits a local quotient manifold Globally a leaf L may return and cut a simple open set U in several plagues sometimes even an infinite number of plagues Riemannian Foliations Pierre Molino, 1988 On Minimal Riemannian Foliations P. G. Walczak, 1981 **Geometric and Dynamical** Properties of Riemannian Foliations Hobum Kim, 1990 Given a Riemannian foliation cal F on a Riemannian manifold M with a bundle like metric geometric and dynamical properties of geodesics orthogonal to the leaves of the foliation are studied In one line of work the concepts of cal F Jacobi fields and cal F Jacobi tensors are introduced Using these concepts an upper bound for the index of a focal point of a leaf is obtained when the orthogonal complement of the foliation is involutive In particular it is proved that there is no focal point of a leaf of a Riemannian foliation of codimension one Moreover it is also proved that if M is a complete Riemannian manifold of nonnegative sectional curvature and if the norm of the integrability tensor is small compared with the sectional curvature of M then cal F is totally geodesic In another line of work it is proved that 1 cal F is harmonic if and only if the geodesic flow preserves the corresponding Riemannian volume form on the normal bundle corresponding to a Sasaki type metric in case cal F is transversally flat 2 There is no Riemannian foliation on a compact Riemannian manifold of negative sectional curvature The proof uses Oseledec s multiplicative ergodic theorem

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by detailed mathematical historical and philosophical commentary It explores Riemann's revolutionary ideas on space placing them within the broader framework developed by later thinkers such as Helmholtz Ricci Weyl and Einstein A historical introduction situates Riemann's work in its 19th century context while subsequent chapters trace the evolution of the concept of space across philosophy physics and mathematics and examine its enduring influence up to modern research The second edition includes expanded mathematical commentary a new section on metric geometry and machine learning a systematic bibliography and numerous updates throughout Appealing to mathematicians historians and readers with an interest in physics or philosophy this book provides a comprehensive perspective on Riemann's groundbreaking contributions and their lasting impact Riemannian Geometry and Holonomy Groups Simon Salamon, 1989 Advances in the Theory of Riemann Surfaces Lars Valerian Ahlfors, 1971-07-21 Intended for researchers in Riemann surfaces this volume summarizes a significant portion of the work done in the field during the years 1966 to 1971 Symmetric and Alternating Groups as Monodromy Groups of Riemann Surfaces I: Generic Covers and Covers with Many Branch Points Robert M. Guralnick, John Shareshian, 2007 Considers indecomposable degree n covers of Riemann surfaces with monodromy group an alternating or symmetric group of degree d The authors show that if the cover has five or more branch points then the genus grows rapidly with n unless either d n or the curves have genus zero there are precisely five branch points and n d d 1 2

Singular riemannian foliations with sections and transnormal maps ,2002 Um resultado cl ssico da teoria de grupos de Lie garante que as rbitas da a o adjunta de um grupo de Lie compacto interceptam um toro m ximo ortogonalmente Esta a o um exemplo das chamadas a es polares A es polares s o a es de grupos compactos de isometrias que admitem se es subvariedades totalmente geod sicas que interceptam as rbitas ortogonalmente A es polares e subvariedades isoparam tricas s o casos particulares das chamadas folhea es riemannianas singulares com se es assunto que estudado nesta tese Al m de apresentarmos resultados sobre essas folhea es singulares apresentamos tamb m resultados sobre as chamadas aplica es transnormais generaliza es das aplica es isoparam tricas destacando como estes objetos est o relacionados

Riemannian Geometry Luther Pfahler Eisenhart,1925 One-dimensional Riemannian Foliations on the Heisenberg Group Marius Ionut Munteanu,2002 Riemannian Geometry L.P. Eisenhart,1949

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