

Singular Riemannian Foliations with Sections *

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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.

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Pierre Molino



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Riemannian Foliations 3Island Press,1988-01-01 **Riemannian Foliations** Pierre Molino,1988 **On Minimal Riemannian Foliations** P. G. Walczak,1981 **Foliations** Alberto Candel,Lawrence Conlon,2000 **Geometric and Dynamical Properties of Riemannian Foliations** Hobum Kim,1990 Given a Riemannian foliation $\mathcal{F}$ 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 $\mathcal{F}$ Jacobi fields and $\mathcal{F}$ 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 $\mathcal{F}$ is totally geodesic In another line of work it is proved that 1 $\mathcal{F}$ 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 $\mathcal{F}$ 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 Proofs of Conjectures about Singular Riemannian Foliations Marcos M. Alexandrino,2005 **Singular Riemannian Foliations with Sections, Transnormal Maps and Basic Forms** Marcos Martins Alexandrino,Cláudio Gorodski,2006 *On the Sobolev Inequality for Riemannian Foliations* Zhiqiang Sun,2018 **Riemannian Foliation** Pierre Molino,1988 *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

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