

Negative Exterior Curvature Foliations on Compact Riemannian Manifolds

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UDC 514

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

$$A^\alpha(X, X) = A^\alpha_j x^i x^j = 0, \quad i, j = 1, \dots, l, \quad \alpha = 1, \dots, N, \quad (1)$$

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 $A^\alpha_j x^i y^j$, 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

$$(A(X, X), A(Y, Y)) - (A(X, Y), A(X, Y)) < 0 \quad (2)$$

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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