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GEODESIC MAPPINGS OF EINSTEIN MANIFOLDS

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Summary. A mapping of pseudo-Riemannian manifold (M, g) onto manifold (\bar{M}, \bar{g}) is said to be geodesic if it maps geodesics onto geodesics. A manifold (M, g) admits such mapping if and only if there exists a bilinear symmetric form a satisfying (3). In the paper it was proved that if an Einstein manifold admits such mapping, then its eigenvectors are non-isotropic. Making use of this result the local structure theorem was proved.

Key words: Einstein manifolds – geodesic mappings.

INTRODUCTION

Assume that (M, g) and (\bar{M}, \bar{g}) are two n -dimensional pseudo-Riemannian manifolds of the class \mathcal{C}^∞ . A mapping $\gamma: (M, g) \rightarrow (\bar{M}, \bar{g})$ is said to be geodesic if γ maps geodesic lines of the manifold (M, g) onto geodesic lines of the manifold (\bar{M}, \bar{g}) . Then their metrics are said to be geodesically corresponding.

Suppose that both g and \bar{g} are metrics on the same manifold M . Let $\mathfrak{F}(M)$ be the ring of differentiable functions and $\mathfrak{X}(M)$ the \mathfrak{F} -module of differentiable vector fields on M . Each of the conditions below is necessary and sufficient for the metrics g and \bar{g} to be geodesically corresponding:

$$\nabla_X Y = \nabla_X Y + (X\psi)Y + (Y\psi)X, \quad (1)$$

$$(\nabla_X \bar{g})(Y, Z) = 2(X\psi)\bar{g}(Y, Z) + (Y\psi)\bar{g}(X, Z) + (Z\psi)\bar{g}(X, Y), \quad (2)$$

$$(\nabla_X a)(Y, Z) = (Y\varphi)g(X, Z) + (Z\varphi)g(X, Y), \quad (3)$$

for all $X, Y, Z \in \mathfrak{X}(M)$, where $\varphi, \psi \in \mathfrak{F}(M)$, ∇ and $\bar{\nabla}$ are the Levi-Civita connections with respect to g and \bar{g} , and a is a symmetric non-singular bilinear form on M .

In a chart (U, x) on M the local components of $g, \bar{g}, a, X\varphi$ and $X\psi$ given by

$$g_{ij} = g(X_i, X_j), \quad \bar{g}_{ij} = \bar{g}(X_i, X_j), \quad a_{ij} = a(X_i, X_j),$$

$$\varphi_i = X_i \varphi, \quad \psi_i = X_i \psi$$

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