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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 $\mathfrak{F}(M)$ -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

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

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

Einstein Manifolds

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International Journal of Mathematical Combinatorics, Volume 3, 2018 Linfan Mao, The *International J Mathematical Combinatorics* is a fully refereed international journal sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly which publishes original research papers and survey articles in all aspects of mathematical combinatorics, Smarandache multi-spaces, Smarandache geometries, non-Euclidean geometry, topology and their applications to other sciences. *MATHEMATICAL COMBINATORICS, Vol. 3 / 2018* Linfan Mao, 2018 The *Mathematical Combinatorics International Book Series* is a fully refereed international book series with ISBN number on each issue sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly comprising 110-160 pages approx per volume which publishes original research papers and survey articles in all aspects of Smarandache multi-spaces, Smarandache geometries, mathematical combinatorics, non-Euclidean geometry and topology and their applications to other sciences.

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Academic Studies in Science and Mathematics Sciences Sema Isisag Ucuncu, Tanja V. Soldatovic,2020-12-15 Academic Studies in Science and Mathematics Sciences

Proceedings 10th Taiwan–Philippines Symposium on Analysis [] [],2015-01-01 This volume is a special issue which is devoted to selected papers from the 10th Taiwan Philippines Symposium on Analysis 10th TPSOA held on 31 March 3 April 2014 at the Garden Villa Hotel Kaohsiung city Taiwan and organized mainly by National University of Kaohsiung The article on page 311 has listed the bilateral participants of Taiwan and the Philippines for the 10 symposiums The symposiums have brought together mathematicians from the Philippines and Taiwan to share their results and current research activities

Stability of Einstein Manifolds Klaus Kröncke,2014-08-19 **Bulletin of the American Mathematical Society** American Mathematical Society,1920 *Pure and Applied Differential Geometry* Franki Dillen,Ignace van de Woestyne,2007

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