

A STUDY ON THE ME-CONNECTION AND ITS CONFORMAL CHANGE

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An n -dimensional ME-manifold MEX_n is a generalized Riemannian manifold connected by the ME-connection which is both einstein anf of the form (3.1). The purpose of the present paper is to find and prove a necessary and sufficient condition for the existence of a ME-connection and to investigate the conformal change of MEX_n . In particular, we present two different kind of representations of the ME-vector X_ω , the first of which is a general one and the second of which is a particular one.

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