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ON WARPED PRODUCT QUASI GENERALIZED RECURRENT MANIFOLDS

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Abstract: Recurrent manifold is one of the important curvature restricted geometric structure and quasi generalized recurrent manifold is a proper generalization of such manifolds. The object of the present paper is to study the properties of quasi generalized recurrent warped product manifolds and to determine the necessary and sufficient conditions for a warped product manifold to be a quasi generalized recurrent manifold. Finally as a support of the main result, we present an example of warped product quasi generalized recurrent manifold.

Keywords and Phrases: Recurrent manifold, quasi generalized recurrent manifold, recurrent like manifold, warped product manifold.

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