

GEODESICS AND KILLING VECTOR FIELDS IN A TANGENT BUNDLE

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ABSTRACT

The main purpose of this paper is to study geodesics and Killing vector fields in a tangent bundle with respect to the synectic lift $\overset{s}{\nabla}$ of an affine connection.

Key words: Tangent bundle; Riemannian metric; synectic lift; geodesics; Killing vector field.

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