**Affine connections on three-dimensional pseudo-Riemannian homogeneous spaces.** II

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Abstract

We describe all invariant affine connections on three-dimensional pseudo-Riemannian homogeneous spaces. We present the complete local classification of pseudo-Riemannian homogeneous spaces. It is equivalent to the description of effective pairs of Lie algebras supplied with an invariant nondegenerate symmetric bilinear form on the isotropy module. We describe all invariant affine connections on pseudo-Riemannian homogeneous spaces together with their curvature and torsion tensors and single out pseudo-Riemannian connections.

Keywords

invariant affine connectionpseudo-Riemannian homogeneous space

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