

On canonical almost geodesic mappings which preserve the weyl projective tensor

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Abstract

We study a partial case of canonical almost geodesic mappings of the first type of spaces with affine connection that preserve Weyl projective curvature tensor and certain other tensors. Main equations under consideration are reduced to a closed Cauchy system type in covariant derivatives. Therefore a general solution to these equations depends on a finite number of constants. We submit an example of above mappings between flat spaces. We establish that projective Euclidean and equiaffine spaces form closed classes of spaces with respect to these mappings.

Keywords

canonical almost geodesic mapping of the first type space with affine connection Weyl projective curvature tensor

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