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On a class of projectively Ricci-flat Finsler metrics. (English) [Zbl 1460.53063]

Summary: Every Finsler metric induces a spray on a manifold. With a volume form on a manifold, every spray can be deformed to a projective spray. The Ricci curvature of a projective spray is called the projective Ricci curvature. The projective Ricci curvature is an important projective invariant in Finsler geometry. In this paper, we study and characterize projectively Ricci-flat square metrics. Moreover, we construct some nontrivial examples on such Finsler metrics.

MSC:
53C60 Global differential geometry of Finsler spaces and generalizations (areal metrics)
53B40 Local differential geometry of Finsler spaces and generalizations (areal metrics)

Keywords:
Finsler metric; square metric; projective Ricci curvature; projectively Ricci-flat

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References:

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