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Title: On a class of projectively flat (α, β) -Finsler metrics

Author(s): Tran Quoc Binh and Xinyue Cheng

In this paper, we consider the Finsler metric $F = (\alpha + \beta)^{\lambda+1}/\alpha^\lambda$, where $\alpha = \sqrt{a_{ij}(x)y^i y^j}$ is a Riemannian metric and $\beta = b_i(x)y^i$ is a 1-form and λ is a real number with $\lambda \neq -1, 0, 1$. We prove that this Finsler metric is locally projectively flat if and only if α is projectively flat and β is parallel with respect to α . Furthermore, F is locally projectively flat Finsler metric with constant flag curvature if and only if F is Minkowskian.

Address:

Tran Quoc Binh
Institute of Mathematics
University of Debrecen
H-4010 Debrecen, P.O. Box 12
Hungary

Address:

Xinyue Cheng
School of Mathematics and Physics
Chongqing Institute of Technology
Chongqing 400050
P. R. China