

Year: 2012

Vol.: 81

Fasc.: 3-4

**Title:** A class of Finsler metrics projectively related to a Randers metric

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In this paper, we prove that the  $(\alpha, \beta)$ -metrics in the form  $F = (\alpha + \beta)^p / \alpha^{p-1}$  ( $p \neq 1, 2$ ) are projectively related to a Randers metric  $\bar{F} = \bar{\alpha} + \bar{\beta}$  on a manifold of dimension  $n$  ( $n \geq 3$ ) if and only if  $F$  is Berwald metric and  $\bar{F}$  is Douglas metric and the corresponding Riemannian metrics  $\alpha$  and  $\bar{\alpha}$  are projectively related.

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