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 $F = \tilde{\alpha} + \tilde{\beta}$ on a manifold of dimension $n$ ($n \geq 3$) if and only if $F$ is Berwald metric and $\tilde{F}$ is Douglas metric and the corresponding Riemannian metrics $\alpha$ and $\tilde{\alpha}$ are projectively related.

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