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Title: On a projective class of Finsler metrics

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In this paper, we study a class of Finsler metrics whose Douglas curvature satisfies $D_j{}^i{}_{kl;m}y^m = T_{jkl}y^i$. It is known that this class is closed under projective change and all metrics with vanishing Douglas curvature or vanishing Weyl curvature belong to it. Thus Finsler metrics in this class are called generalized Douglas–Weyl (GDW) metrics. For a Randers metric $F = \alpha + \beta$, we find a sufficient and necessary condition for F to be a GDW metric.

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