

The explicit construction of projectively Ricci-flat Finsler metrics on double hemispheres

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Abstract. We give an explicit construction of an $(n + 1)$ -parameter family of projectively Ricci-flat Finsler metrics on an n -dimensional double hemisphere by using the spherical harmonics of degree 1. We also show that all locally projectively flat Randers metrics with isotropic S -curvature on the standard unit sphere are projectively Ricci-flat.

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