Year: 2014 | Vol.: 84 | Fasc.: 1-2

**Title:** Characterization of projective Finsler manifolds of constant curvature having infinite dimensional holonomy group

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In this paper we prove that the holonomy group of a simply connected locally projectively flat Finsler manifold of constant curvature is a finite dimensional Lie group if and only if it is flat or it is Riemannian. In particular, the holonomy group of non-Riemannian projective Finsler manifolds of nonzero constant curvature is infinite dimensional.

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