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Title: Some applications of index form in Finsler geometry

Author(s): Mihai Anastasiei, László Kozma and Ioan Radu Peter

In this paper, two results regarding the impact of some curvatures on the topology of a Finsler manifold are established. The first one is a compactness theorem, and the second is an intersection theorem. Their hypotheses involve conditions on an invariant generalizing the Ricci curvature and the proofs are based on the index form along geodesics.

Address:

Mihai Anastasiei Faculty of Mathematics Alexandru Ioan Cuza University of Iași and Mathematical Institute "O. Mayer" Romanian Academy

Romania

Iași

Address:

László Kozma Institute of Mathematics University of Debrecen H-4002 Debrecen P. O. Box 400 Hungary

Address:

Ioan Radu Peter Department of Mathematics Technical University of Cluj-Napoca Memorandumului 28 Cod RO-400114 Cluj-Napoca Romania