

Year: 2017

Vol.: 90

Fasc.: 3-4

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
Iași
Romania

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