Year: 2011 | Vol.: 78 | Fasc.: 1

Title: Ricci solitons in manifolds with quasi-constant curvature

Author(s): Cornelia Livia Bejan and Mircea Crasmareanu

The Eisenhart problem of finding parallel tensors treated already in the framework of quasi-constant curvature manifolds in [Jia] is reconsidered for the symmetric case and the result is interpreted in terms of Ricci solitons. If the generator of the manifold provides a Ricci soliton then this is i) expanding on para-Sasakian spaces with constant scalar curvature and vanishing D-concircular tensor field and ii) shrinking on a class of orientable quasi-umbilical hypersurfaces of a real projective space=elliptic space form.

Address:

Cornelia Livia Bejan Seminarul Matematic "Al. Myller", University "Al. I. Cuza"

Iaşi, 700506 Romania

Address:

Mircea Crasmareanu Faculty of Mathematics University "Al. I.Cuza" Iaşi, 700506 Romania