SOME PROBLEMS CONCERNING PSEUDO-ANALYTIC VECTORS ON PSEUDO-KAehlerIAN MANIFOLDS

U.S. NEGI*
*Department of Mathematics,
H.N.B. Garhwal (Central) University, Campus Badshahi Thaul,
Tehri Garhwal – 249 199, Uttarakhand, India

Abstract

Bochner (1946) has studied vector fields and Ricci curvature, Yano (1952) has studied on harmonic and killing vector fields, Yano and Bochner (1953) have studied curvature and Betti numbers. Further, Sinha (1973) has studies on H-curvature tensors in Kaehler manifold. Also, Negi and Semwal (2010) have studied some theorems on almost product and almost decomposable manifold. In the present paper; I have defined and studied concerning pseudo-analytic vectors on pseudo-kaehlerian manifolds and several theorems have been derived.

Keywords: Kaehlerian, H-projective, Pseudo-Analytic vectors, Pseudo-kaehlerian manifolds, curvature tensors, recurrent spaces.

MSC 2010: 53C15, 53C50, 53C55, 53C80, 53B35.