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Title: Geometry of H -paracontact metric manifolds

Author(s): Giovanni Calvaruso and Domenico Perrone

We introduce and study H -paracontact metric manifolds, that is, paracontact metric manifolds whose Reeb vector field ξ is harmonic. We prove that they are characterized by the condition that ξ is a Ricci eigenvector. We then investigate how harmonicity of the Reeb vector field ξ of a paracontact metric manifold is related to some other relevant geometric properties, like infinitesimal harmonic transformations and paracontact Ricci solitons.

Address:

Giovanni Calvaruso
Dipartimento di Matematica
e Fisica "E. De Giorgi"
University of Salento
Prov. Lecce-Arnesano
73100 Lecce (LE)
Italy

Address:

Domenico Perrone
Dipartimento di Matematica
e Fisica "E. De Giorgi"
University of Salento
Prov. Lecce-Arnesano
73100 Lecce (LE)
Italy