

Constancy of some maps into certain metric (para) f -manifolds

Sadettin Erdem

*Isparta Universitesi, Matematik Bolumu, Cunur Yerleskesi 32260*

*ISPARTA,*

*e-mail: saerdem@fef.sdu.edu.tr*

**Abstract**

For a decade, geometers have been considering maps between metric (para) f-manifolds in connection with their holomorphicity and harmonicity. Clearly constancy and non-constancy of such maps are vitally important. Thus, some results are already provided by some geometers ( Duggal, K. L.; Ianus, S.; Pastore, A. M and Gherghe, C. ) along this line under some conditions on the map and the manifolds involved. In this work, we have given a constancy result with some considerable improvements to the ones given earlier: *i*) All the conditions on the domain manifold are removed and that it is simply taken to be a smooth manifold. *ii*) The conditions imposed on the target manifold are relaxed considerably and consequently constancy results are provided for much wider range of manifolds on the target.