< **Share This Journal**   **View profile page**

* Requires free login.

Springer Link

Some Fundamental Theorems of Functional Analysis with Bicomplex and Hyperbolic Scalars

Heera Saini, Aditi Sharma & Romesh Kumar ✉

Abstract

We discuss some properties of linear functionals on topological hyperbolic and topological bicomplex modules. The hyperbolic and bicomplex analogues of the uniform boundedness principle, the open mapping theorem, the closed graph theorem and the Hahn Banach separation theorem are proved.