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Topological Bicomplex Modules

[Romesh Kumar](#)  & [Heera Saini](#)

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Abstract

In this paper, we develop topological modules over the ring of bicomplex numbers. We discuss bicomplex convexity, hyperbolic-valued seminorms and hyperbolic-valued Minkowski functionals in bicomplex modules. We also study the conditions under which topological bicomplex modules and locally bicomplex convex modules become hyperbolic normable and hyperbolic metrizable respectively.

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