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T$_2$-OBJECTS IN CATEGORIES OF FILTER AND LOCAL FILTER CONVERGENCE SPACES

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Abstract: There are various generalizations of the usual T$_2$ (Hausdorff) axiom of topology to an arbitrary topological category defined in [1]. In this paper, four more new generalizations of Hausdorff spaces are given in the topological categories. Moreover, the relationships among all of these T$_2$ structures and the ones given in [5] and [7] as well as some invariance properties of them are investigated in the categories of filter and local filter convergence spaces. Keywords: Topological Categories, T$_2$-objects, Filter Convergence Spaces.