Subspace Properties of Lindelöf Topological Groups

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Abstract

In the context of topological space, the Lindelöf subspace is defined. This thesis introduces the definition of Lindelöf subspace within the topological group, exploring its properties, such as the question, "Is a subspace of the Lindelöf topological group also Lindelöf?" And study some important proprieties of Lindelöf subspace within the topological group.

Keywords: Topological Group, Lindelöf space, Lindelöf Topological Group, Subspace Properties of Lindelöf Topological Groups.