

NEARLY LINDELÖFNESS IN BITOPOLOGICAL SPACES

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Abstract: The concept of nearly pairwise Lindelöf spaces, a well-known weaker form of Lindelöf spaces, was introduced by Katetov and L. Krajewski in [11, 12] and has since been extensively explored by numerous researchers. This paper investigates the same concept in the context of a specific type of cover, referred to as a regular cover. In particular, the primary objective is to examine the properties of new generalizations of pairwise Lindelöf spaces, termed nearly pairwise Lindelöf spaces.

Keywords and Phrases: Bitopological spaces, regular covers, pairwise Lindelöf spaces, pairwise Lindelöf, pairwise compact, pairwise paracompact.

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1. Introduction

A Lindelöfness studied by Katetov and L. Krajewski in [11] and [12], respectively, is one of the most famous concepts in general topology. Many of its various